

НАУЧНОМ ВЕЋУ ИНСТИТУТА ТЕХНИЧКИХ НАУКА САНУ

На седници Научног већа Института техничких наука САНУ 10. 06. 2016. године одређени смо у Комисију за стицање звања **вишег научног сарадника др Филипа Радовановића**, научног сарадника Института техничких наука САНУ. На основу разматрања приложене документације подносимо Научном већу следећи:

ИЗВЕШТАЈ

I Биографски подаци

Филип Радовановић је рођен 14. априла 1954. године у Београду. На Технолошко-металуршком факултету Универзитета у Београду дипломирао је 1978. године на одсеку за хемијско инжењерство. По завршетку студија уписао је постдипломске студије, научно-истраживачки профил, на ТМФ у Београду. Магистрирао је 1981. године. Докторске студије је уписао 1985. године на Универзитету Синсинати, САД где је одбранио докторску тезу 1990. године.

Од 1980. до 1985. године радио је у Институту за хемију, технологију и металургију, Центар за техноекономику и програмирање развоја у Београду. У овом периоду учествовао је и руководио низом истраживачких и стручних студија рађених за потребе домаће хемијске, пластичне и гумарске индустрије. Индустијски партнери су били између осталих: Зорка-Шабац, Рекорд-Београд, ХИ Панчево, Милан Благојевић-Лучани, Магнохром-Краљево, Врело Уне-Срб, Електробосна-Јајце и Соко-Мостар. Учествовао је на изради Стратегије извоза Србије до 2000. године, студије рађене за потребе Привредне Коморе Србије.

Од 1990. до 1999. године радио је у Централној истраживачкој лабораторији фирме 3М у St. Paul, MN у САД. У периоду до 1994. године учествовао је у мултидисциплинарном тиму који је развио и комерцијализовао микропорозни ламинат за хируршке мантиле који су се користили као баријера против вируса и других патогених организама. Поред активног учешћа у техничким иновацијама везаним за овај производ, развио је низ метода тестирања контроле квалитета и водио индустријски scale-up, користећи модерне методе експерименталног дизајна и статистичке контроле процеса. Био је одговоран за технички развој који је довео до међународног трансфера технологије из САД у Јапан у области производње мембрана за употребу у дечијим пеленама. На место истраживача специјалисте унапређен је 1994. године и у том својству је био одговоран за технички развој који је довео до комерцијализације три нова производа на бази технологије термички индуковане фазне сепарације за производњу мембрана. У периоду до 1999. године изумео је и развио нови процес за производњу мембрана термички индукованом фазном сепарацијом, као и сепаратор за литијумске батерије са

побољшаним сигурносним карактеристикама. Ове активности су резултовале низом међународних патената који су наведени у библиографији.

Од 1999. до 2009. године радио је у Европској истраживачкој лабораторији фирме 3М у Neuss, Немачка. У овом периоду водио је технички развој специјалних адхезива са високом термичком проводљивошћу за употребу у електронској индустрији и адхезива за употребу у условима влаге и под водом. Од 2002. до 2004. године водио је технички део пројекта за идентификацију технологија и производа у области пречишћавања вода и развио производњу специјалних мембрана за омекшавање воде филтрацијом под ниским притиском од лабораторијског нивоа до полу-индустријског постројења. Од 2005. до 2009. године радио је као специјалиста за развој материјала и филтера за пречишћавање ваздуха у путничким возилима. У овом периоду развио је нови процес за производњу филтрационих материјала у облику ламината од нетканог текстила и слоја са активним угљем за адсорпцију штетних издувних гасова, на чијој основи је комерцијализовано неколико производа за потребе једне од водећих светских фирми за производњу путничких возила.

Од 2010. до 2012. године радио је на Техничком Универзиту у Бечу, Аустрија на истраживању и развоју нових протон-проводних мембрана у оквиру мултинационалног пројекта MultiPlat (7. оквирни програм истраживања ЕУ). У овом периоду изумео је и развио нови процес за производњу асиметричних мембрана проводних за протоне за који је добио и међународни патент.

Од 2012. до 2016. године радио је као научни сарадник (Министарство просвете и науке, број одлуке 06-00-75/568, 29.02.2012. год) у Институту за хемију, технологију и металургију, Центар за микроелектронске технологије на националном пројекту "Микро, нано-системи и сензори за примену у електропривреди, процесној индустрији и заштити животне средине" (МиНаСиС), ТР-32008. У овом периоду изумео је и развио нови процес за производњу мембрана са субмикрометарским адсорпционим честицама и композитних мембрана са функционалним хидрогелом, које се могу користити за детекцију и уклањање тешких метала. Резултат ових истраживања је низ радова објављених у међународним часописима, као и објављена патентна пријава код Завода за интелектуалну својину Србије. Од априла 2016. године ради као научни сарадник у Институту техничких наука Српске академије наука и уметности.

Филип Радовановић је члан Европског друштва за мембране и Српског хемијског друштва, као и рецензент међународног часописа Journal of Environmental Chemical Engineering.

II Научни рад

Научно-истраживачки рад кандидата је фокусиран на област мембрана и мембранских сепарација, што су биле теме магистарске и докторске тезе, као и истраживачке области током досадашње научно-истраживачке каријере у Америци, Немачкој, Аустрији и Србији. Током дугогодишњег рада кандидат је развио експертизу у следећим областима: развој, scale-up и производња мембрана процесом термички-индуковане фазне сепарације, сепаратори за литијумске батерије,

мембране са високом проводљивошћу протона, микропорозни филмови као баријере за водене растворе, уља и вирусе, производња мембрана поступком преципитације у течном купатилу, производња мембранских адсорбера и композитних мембрана са уграђеним функционалним хидрогелом помоћу УВ зрачења и преципитације у течном купатилу, мембранске сепарације за третман вода, мембранска адсорпција, други мембрански процеси (первапорација, гасна сепарација), као и разне методе за тестирање мембрана (величина пора, течна и гасна пермеабилност, мембранска селективност, електро- и протонска проводљивост).

Из научно-истраживачке активности кандидата, проистекли су резултати који су објављени у 70 публикација. Од укупно 70 публикација, 13 су радови објављени у међународним часописима (M21, M22, M23), 1 се односи на предавање по позиву са међународног скупа штампано у целини (M31), 11 су саопштења са међународних скупова штампаних у целини (M33), 22 су саопштења са међународних скупова штампаних у изводу (M34), 9 је објављено у националним часописима (M51, M53), 1 је саопштење са скупа националног значаја штампано у целини (M63), 12 су регистровани међународни патенти (M91), а 1 је објављен патент на националном нивоу (M94). Библиографија др Филипа Радовановића дата је у прилогу 1.

Од 7 радова објављених у међународним часописима пре избора у звање научног сарадника, 2 рада у врхунском међународном часопису (M21/2 и M21/3) се директно односе на тематику докторске дисертације, а 2 рада објављена у међународним часописима се односе на тематику магистарске тезе (M23/1 и M23/2). Остали радови публиковани у овом периоду односе се на области истраживања у којима је кандидат учествовао: мембранске сепарације (M21/1), нанофлуидика (M21/4) и течна хроматографија (M22/1). Од 8 радова објављених у националним часописима пре избора у претходно звање, 1 рад је из области мембранских реактора (M53/1), 1 рад се односи на тематику магистарске дисертације (M53/2), 5 су прегледни радови везани за мембранску технологију (M51/2-6), а 1 рад је из области техноекономске анализе (M51/1). Од 11 регистрованих међународних патената пре избора у звање научног сарадника, 10 патената се односи на истраживања у области мембрана и мембранских процеса (M91/1-9 и M91/11), а 1 патент је везан за истраживање супституције за лепљиве ПВЦ траке (M91/10).

Након избора у звање научног сарадника кандидат је објавио 1 рад у међународном часопису изузетних вредности (M21a), 3 рада у врхунским међународним часописима (M21), као и 2 рада у међународним часописима (M23). Горе поменути радови се углавном односе на истраживања протон-проводних мембрана (M21a/5 и M21/6) и мембранских адсорбера (M21/7, M21/8 и M23/3) која је др Филип Радовановић водио на Техничком Универзитету у Бечу и у Институту за хемију, технологију и металургију у Београду, респективно. У овом периоду кандидат је имао 1 предавање по позиву са међународног скупа штампано у целини (M31/1, позивница у прилогу 2), 11 саопштења са међународних скупова штампаних у целини (M33/1-11), 17 саопштења са међународних скупова штампаних у изводу (M34/6-22) и 1 рад објављен у новом међународном часопису чији је издавач Elsevier (M53/3). На списку

радова у овом периоду су још и 1 регистрован патент на међународном нивоу (M91/12) и 1 објављен патент на националном нивоу (M94/1).

Допринос кандидата научним публикацијама и патентима у већини случајева је био кључни. Као први аутор кандидат је објавио 7 научних радова, а као други аутор, 11. У великој већини радова кандидат је био носилац главне идеје и концепта, као и значајног дела теоријске и експерименталне разраде. Патенти кандидата од којих је већи број одобрен од стране Америчког патентног завода садрже значајан научни допринос, при чему је удео кандидата суштински.

Прилог 1: Библиографија др Филипа Радовановића

Прилог 2: Позивница за одржавање секцијског предавања на међународној конференцији

III Кратка анализа најважнијих радова и патената од претходног избора у звање

У наставку је дата анализа најважнијих научних публикација и патената наведених у библиографији од претходног избора у звање научног сарадника. Наведени радови представљају најзначајнија научна остварења кандидата у овом периоду и односе се на истраживања мембрана испуњених протон-проводним хидрогелом, мембранске адсорбере, као и нови поступак прављења оваквих мембрана комбинацијом УВ зрачења и мокрог поступка фазне инверзије. Овакве мембране и поступци добијања до сада нису описани у научним публикацијама и патентима што показује изузетан степен оригиналности ових радова. Кандидат је био носилац разраде главне идеје и концепта и наведен је као први аутор на 2 од 3 научна рада (M21) и као први проналазач на 2 патента (M91-12 и M94-1).

M21a/5 – Рад описује нову методу прављења асиметричних протон-проводних мембрана са интерпенетрирајућом структуром која садржи умрежене полимеризоване јономере са сулфонским групама уграђене у термички-отпоран стакласти полимер. Овај метод комбинује традиционални мокри поступак фазне инверзије са фотополимеризацијом и умрежавањем функционалних мономера који се налазе у раствору за прављење мембрана. Протонска проводљивост мерена на собној температури код неких од ових мембрана је била знатно виша од проводљивости комерцијалних мембрана које се користе за горивне ћелије уз побољшане баријерне карактеристике при транспорту метанола.

M21/7 - У овом раду представљена је примена новог поступка комбинације фазне инверзије са фотополимеризацијом и умрежавањем функционалних мономера за прављење асиметричних порозних мембрана од полиетарсулфона са уграђеним субмикрометарским честицама које садрже умрежени кополимер глицидил метакрилата. Отварање епоксидних прстенова присутних у наведеном кополимеру реакцијом са диетилентриамином у алкалној средини довело је до формирања функционалних амино група у овим честицама. Пропуштање раствора боје (Orange G) при малим трансмембранским притисцима показало је да овакве мембране могу да буду погодне за мембранску адсорпцију.

M21/8 - У овом раду приказана је примена новог поступка комбинације фазне инверзије са фотополимеризацијом и умрежавањем функционалних мономера за прављење асиметричних порозних

мембрана са уграђеним субмикрометарским честицама које садрже умрежени кополимер глицидил метакрилата и 2-акриламидо-2-метилпропан сулфонске киселине. Отварање епоксидних прстенова присутних у наведеном кополимеру реакцијом са диетилентриамином у алкалној средини довело је до формирања функционалних амино група у овом честицама. Пропуштање разблаженог раствора бакра кроз овакве мембране показало је да је теоријска висина пода за пренос масе за око ред величине нижа од висине пода карактеристичне за комерцијалне мембранске адсорбере који се користе за екстракцију у чврстој фази. Овај рад је изабран за Key Scientific Article престижне међународне консултантске организације Advances in Engineering (<http://advanceseng.com>) – признање које се додељује за мање од 0,1% научних радова публикованих у свету, а мање од 10 истраживачких тимова из Србије је до сада добило овакво признање.

M91/12 - У овом међународном патенту регистрованом у Аустрији приказан је поступак производње асиметричне мембране комбинацијом УВ зрачења и мокрог поступка фазне инверзије који доводи до стварања интерпенетрирајуће структуре од полазног полимера и умреженог кополимера насталог фотополимеризацијом реактивних компонената у полазном раствору за прављење мембрана. Овакве мембране су нарочито погодне за примену у горивним ћелијама.

M94/1 - Проналазак описан у овом патенту објављеном на националном нивоу односи се на асиметричну порозну мембрану са епоксидним прстеновима. Оваква мембрана се добија поједностављеним поступком који избегава додатне операције у циљу функционализације постојећих асиметричних мембрана. По том поступку хомогени раствор за полимеризацију који обухвата реактивну компоненту са епоксидним прстеновима, умреживач, стакласти полимер и растварач, излије се у филм, изложи извору зрачења у циљу полимеризације и умрежавања реактивних компонената и потопа у коагулационо купатило у коме се коначна мембрана формира. Епоксидни прстенови се једноставним хемијским реакцијама могу конвертовати у жељене функционалне групе и такве мембране се могу користити за читав низ сепарационих процеса, као што су ултрафилтрација, мембранска адсорпција за хемијске или биохемијске примене, или у склопу сензора заснованих на мембранама и танким филмовима.

IV Утицајност

На основу документације приложене уз молбу за покретање поступка за избор у научно звање, према бази података Web of Science радови кандидата су цитирани 276 пута у врхунским међународним часописима, 265 пута без аутоцитата, а h-index је 5. На основу база података United States Patent and Trademark Office, Espacenet и WIPO, укупан број цитата које се односе на патенте кандидата је 313.

Прилог 3: Списак цитираних радова заједно са пуним референцама у којима се ти радови цитирају

Прилог 4: Списак цитираних патената са пуним референцама у којима се ти патенти цитирају

V Руковођење пројектима, подпројектима и пројектним задацима

Филип Радовановић је током своје научно-истраживачке каријере у фирми 3М имао прилике да руководи низом пројектних задатака, подпројектима и пројектима. Резултати ових активности је и 11 међународних патената регистрованих у САД, Европи, Јапану, Кини и другим регионима.

У периоду до 1994. године водио је део пројекта у мултидисциплинарном тиму који је развио и комерцијализовао микропорозни ламинат за хируршке ментиле који су се користили као баријера против вируса и других патогених организама. Поред активног учешћа у техничким иновацијама везаним за овај производ, развио је низ метода тестирања и водио индустријски scale-up, користећи савремене методе индустријског дизајна и статистичке контроле процеса. Резултати активности на развоју микро порозног ламината за хируршке ментиле су и међународни патенти: M91-1, M91-2, M91-3 и M91-4.

Од 1995. до 1997. године водио је низ пројеката који су довели до комерцијализације три нова производа на бази технологије термички-индуковане фазне сепарације за производњу мембрана. У периоду од 1997. до 1999. године изумео је и развио нови процес за производњу мембрана термички-индукованом фазном сепарацијом, као и сепаратор за литијумске батерије са побољшаним сигурносним карактеристикама. Резултати активности на развоју нових сепаратора за литијумске батерије су и међународни патенти: M91-6, M91-7, и M91-8.

У периоду од 1999. до 2002. године Филип Радовановић је водио технички развој специјалних адхезива са високом термичком проводљивошћу за употребу у електронској индустрији и адхезива за употребу у условима влаге и под водом. Од 2002. до 2004. године водио је технички део пројекта за идентификацију технологија и производа у области пречишћавања вода и развио производњу специјалних мембрана за омекшавање воде филтрацијом под ниским притиском од лабораторијског нивоа до полу-индустријског постројења.

У периоду од 2005. до 2009. године Филип Радовановић је водио развој материјала и филтера за пречишћавање ваздуха у путничким возилима у току кога је комерцијализовано неколико производа за потребе једне од водећих светских фирми за производњу путничких возила.

У периоду од 2010. до 2012. године Филип Радовановић је као истраживач на Техничком Универзитету Беч у Аустрији водио пројектне задатке у оквиру међународног пројекта Multiplat, WP2- Manufacturing of proton wire (biometric) and test structures. Резултат ових истраживања је био и регистровани Аустријски патент M91-12 (Производња асиметричних мембрана, 2012) на коме је Филип Радовановић наведен као први од четири проналазача.

У периоду од 2012. до данас Филип Радовановић је водио пројектне задатке на националном пројекту TP-32008 Микро, нано-системи и сензори за примену у електропривреди, процесној индустрији и заштити животне средине (МиНаСиС). Резултат ових истраживања је и иновација Асиметрична

порозна мембрана са епоксидним прстеновима која је објављена 2015. године као патент на националном нивоу, M94-1, на коме је Филип Радовановић наведен као први од четири проналазача.

VI Ангажованост у образовању и формирању научних кадрова

У току своје досадашње каријере Филип Радовановић је био врло ангажован у научно-истраживачком раду са студентима међународних универзитета. Био је члан комисије за докторску дисертацију: Saeed Shojaie, "Modeling and laboratory studies of dry-cast asymmetric membrane formation", која је одбрањена 1991. године на Универзитету Колорадо, САД. Од 1996. до 1999. године био је представник фирме 3М у оквиру индустријске саветодавне комисије Центра за сепарације на Универзитету Колорадо и у том својству је учествовао у консултацијама при изради низа докторских радова на овом универзитету у области мембранске технологије.

У периоду од 2010. до 2012. године Филип Радовановић је у склопу међународног пројекта MultiPlat активно учествовао и водио истраживања која су имала као резултат два заједничка M21 научна рада и докторску дисертацију: Michael Kellner, Entwicklung neuer Materialien fuer protonleitende Membranen in Brennstoffzellen, Технички Универзитет Беч, Аустрија, 2013 (захвалница у прилогу 5). У периоду од 2012. до 2015. године Филип Радовановић је водио истраживања у склопу докторских студија Тање Томковић на Технолошко-металуршком факултету Универзитета у Београду. Као резултат ових истраживања до сада су објављена два заједничка M21 научна рада (M21/7 и M21/8) и један заједнички M23 рад (M23/3), чиме је Тања Томковић испунила услове за пријаву одбране докторске дисертације.

Активно је учествовао у изради и био члан Комисије за одбрану докторске дисертације др Милоша Воркапића из области инжењерског менаџмента на Техничком факултету „Михајло Пупин” Универзитета у Новом Саду, са којим је објавио заједнички M23 научни рад (M23/4).

Прилог 5: Захвалница из докторске дисертације одбрањене на Техничком Универзитету Беч, Аустрија

VII Међународна сарадња

У току своје досадашње каријере Филип Радовановић је био врло ангажован у области сарадње са међународним универзитетима и институтима. Од 1996. до 1999. године био је представник фирме 3М у оквиру индустријске саветодавне комисије Центра за сепарације на Универзитету Колорадо. Од 2001. до 2003. године водио је 3М комисију за сарадњу са европским универзитетима и институтима. Од 2010. до данас сарађивао је са низом међународних партнера у оквиру FP7 пројеката MultiPlat и MagDrive.

Период: 2010 - 2012

Назив пројекта: "Biomimetic Ultrathin Structures as a Multipurpose Platform for Nanotechnology-Based products – MultiPlat -FP7-NMP-2008-SMALL-2"

Међународни партнери: Technische Universität Wien, Austria

Ecole Polytechnique Federale de Lausanne, Switzerland

Commissariat a l'Energie Atomique, France

University of Leipzig, Germany

NANOCYL S.A., Belgium

PAXITECH SAS, France

Период: 2013 – 2016

Назив пројекта: “New permanent magnets for electric-vehicle drive applications – MagDrive - FP7-GC.SST.2013-2, WP4-Route II – The nanoparticle route“

Међународни партнери: Institut Josef Stefan, Slovenija

Valeo Equipments Electriques Moteur SAS, France

Dr. Kochanek Entwicklungsgesellschaft, Germany

University of Birmingham, United Kingdom

Magneti Ljubljana, Slovenija

University of London, United Kingdom

VIII Мишљење и предлог комисије

На основу прегледаног материјала, Комисија закључује да се кандидат др Филип Радовановић, доктор техничких наука, научни сарадник Института техничких наука Српске академије наука и уметности, изузетно успешно бави научноистраживачким радом у области инжењерство материјала. Научни рад др Филипа Радовановића је фокусиран на област мембрана и мембранских сепарација.

Др Филип Радовановић је већи део своје богате научно-истраживачке каријере провео радећи у Америци, Немачкој, Аустрији и Србији, где је учествовао у различитим облицима међународне сарадње, како радећи у мултинационалној фирми 3М, тако и на Техничком Универзитету у Бечу кроз активно учешће у међународном пројекту MultiPlat и у Институту за хемију, технологију и металургију кроз учешће у међународном пројекту MagDrive. Руководио је низом пројектних задатака, подпројектима и пројектима у земљи и иностранству. Резултат ових активности је 12 међународних патената регистрованих у САД, Европи, Јапану, Кини, Аустрији и другим регионима, као и 1 патент на националном нивоу (М94). До сада је укупно објавио 13 радова у међународним часописима (М21, М22, М23), 9 радова у националним часописима (М51, М53), 33 саопштења на међународних скупова (од чега 11 категорије М33 и 22 категорије М34) и 1 саопштење са скупа националног значаја (М63). Одржао је и 1 предавање по позиву са међународног скупа штампано у целини (М31). Након избора у звање научног сарадника кандидат је објавио укупно 6 радова, од чега 1 рад у међународном часопису изузетних вредности (М21а), 3 рада у врхунским међународним часописима (М21), као и 2 рада у међународним часописима (М23). Према бази података Web of Science радови кандидата су цитирани 276 пута у врхунским међународним часописима, а на основу база података United States Patent and Trademark Office, Espacenet и WIPO, укупан број цитата које се односе на патенте кандидата је 313.

Табела постигнутих резултата

Ознака групе	Број радова	Вредност индикатора	Укупна вредност
M_{21a}	1	10	10
M₂₁	7	8	56
M₂₂	1	5	5
M₂₃	4	3	12
M₃₁	1	1	3,5
M₃₃	11	1	11
M₃₄	22	0,5	11
M₅₁	6	2	12
M₅₃	3	1	3
M₆₃	1	0,5	0,5
M₇₀	1	6	6
M₉₁	12	16	192
M₉₄	1	7	7
Укупно			329

Имајући у виду целокупне научне резултате др Филипа Радовановића, његову научну компетентност након избора у звање научни сарадник карактеришу следећа вредност индикатора:

Вредности индикатора и компетентност након избора у звање научни сарадник др Филипа Радовановића

Ознака групе	Број радова	Вредност индикатора	Укупна вредност
M_{21a}	1	10	10
M₂₁	3	8	24
M₂₃	2	3	6
M₃₁	1	1	3,5
M₃₃	11	1	11
M₃₄	17	0,5	8,5
M₅₃	1	1	1
M₆₃	1	0,5	0,5
M₉₁	1	16	16
M₉₄	1	7	7
Укупно			87,5

КРИТЕРИЈУМИ ЗА ИЗБОР У НАУЧНО ЗВАЊЕ ВИШИ НАУЧНИ САРАДНИК

потребан услов	остварено
Укупно: 50	Укупно: 87,5
$M_{10}+M_{20}+M_{31-33}+M_{41-42}+M_{51}+M_{80}+M_{90} \geq 40$	$M_{10}+M_{20}+M_{31-33}+M_{41-42}+M_{51}+M_{80}+M_{90} = 77,5$
$M_{21}+M_{22}+M_{23} \geq 15$	$M_{21}+M_{22}+M_{23} = 40$
$M_{81-83}+M_{90-96}+M_{101-103}+M_{108} \geq 7$	$M_{81-83}+M_{90-96}+M_{101-103}+M_{108} = 23$

На основу свега изложеног може се донети следећи

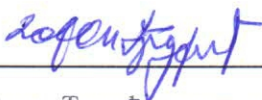
ЗАКЉУЧАК

Имајући све наведено у виду, сматрамо да кандидат задовољава све захтеве за избор у научноистраживачко звање које поставља Закон о научноистраживачкој делатности. Комисија са великим задовољством предлаже Научном већу Института техничких наука Српске академије наука и уметности да др Филипа Радовановића изабере у звање виши научни сарадник.

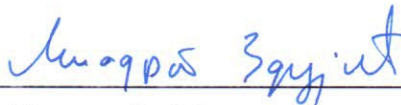
ЧЛАНОВИ КОМИСИЈЕ



Др Александра Настасовић, научни саветник у Институту за хемију, технологију и металургију Универзитета у Београду



Др Зоран Ђурић, академик, научни саветник у Институту техничких наука САНУ



Др Миодраг Здујић, научни саветник у Институту техничких наука САНУ



Др Магдалена Стевановић, виши научни сарадник у Институту техничких наука САНУ

Dr Filip Radovanović – Naučna Bibliografija

M21a i M21 - Rad u vrhunskom međunarodnom časopisu Prvih 10% ili 30% časopisa ISI liste.	Broj	8
1. P. Radovanovic, S. W. Thiel, and S. T. Hwang, "Transport of ethanol-water dimers in pervaporation through a silicone-rubber membrane," <i>Journal of Membrane Science</i> , 48 (1990) 55-65, doi:10.1016/S0376-7388(00)80795-4 . If: 1.127 (1992) Engineering, Chemical 6/72.		
2. P. Radovanovic, S. W. Thiel, and S. T. Hwang, "Formation of asymmetric polysulfone membranes by immersion precipitation. 1. Modeling mass-transport during gelation," <i>Journal of Membrane Science</i> , 65 (1992) 213-229, doi:10.1016/0376-7388(92)87024-R . If: 1.127 (1992) Engineering, Chemical 6/72.		
3. P. Radovanovic, S. W. Thiel, and S. T. Hwang, "Formation of asymmetric polysulfone membranes by immersion precipitation. 2. The effects of casting solution and gelation bath compositions on membrane structure and skin formation," <i>Journal of Membrane Science</i> , 65 (1992) 231-246, doi:10.1016/0376-7388(92)87025-S . If: 1.127 (1992) Engineering, Chemical 6/72.		
4. J. Matovic, N. Adamovic, F. Radovanovic, Z. Jaksic, and U. Schmid, "Field effect transistor based on ions as charge carriers," <i>Sensors & Actuators: B. Chemical</i> , 170 (2012) 137-142, doi:10.1016/j.snb.2011.03.011 . If: 3.535 (2012), Chemistry, Analytical 11/75.		
5. P. Radovanovic, M. Kellner, J. Matovic, R. Liska, and T. Koch, "Asymmetric membranes with interpenetrating proton-conducting morphology made by a combination of immersion precipitation and photopolymerization," <i>Journal of Membrane Science</i> , 401-402 (2012) 254-261, doi:10.1016/j.memsci.2012.02.012 . If: 4.093 (2012) Engineering, Chemical 7/133.		
6. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Novel cross-linkers for asymmetric poly-AMPS-based proton exchange membranes for fuel cells," <i>Designed Monomers and Polymers</i> , 17 (2014) 372-379, doi:10.1080/15685551.2013.840513 . If: 2.780 (2014) Polymer Science 20/82.		
7. F. Radovanović, A. Nastasović, T. Tomković, D. Vasiljević-Radović, A. Nešić, S. Veličković, A. Onjia, "Novel membrane adsorbents incorporating functionalized polyglycidyl methacrylate," <i>Reactive and Functional Polymers</i> , 77 (2014) 1-10, doi:10.1016/j.reactfunctpolym.2014.01.007 . If: 2.515 (2014) Engineering, Chemical 30/134.		
8. T. Tomković, F. Radovanović, A. Nastasović, D. Vasiljević-Radović, J. Marković, B. Grgur, A. Onjia, "Solid phase extraction membranes with submicron multifunctional adsorbent particles," <i>European Polymer Journal</i> , 63 (2015) 90-100, doi:10.1016/j.eurpolymj.2014.12.015 . If: 3.005 (2014) Polymer Science 19/82.		

Od prethodnog izbora u zvanje naučni saradnik

M21a i M21 - Rad u vrhunskom međunarodnom časopisu Prvih 10% ili 30% časopisa ISI liste.	Poeni	34
5. P. Radovanovic, M. Kellner, J. Matovic, R. Liska, and T. Koch, "Asymmetric membranes with interpenetrating proton-conducting morphology made by a combination of immersion precipitation and photopolymerization," <i>Journal of Membrane Science</i> , 401-402 (2012) 254-261, doi:10.1016/j.memsci.2012.02.012 . If:		

4.093 (2012) Engineering, Chemical 7/133.
6. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Novel cross-linkers for asymmetric poly-AMPS-based proton exchange membranes for fuel cells," <i>Designed Monomers and Polymers</i> , 17 (2014) 372-379, doi:10.1080/15685551.2013.840513. If: 2.780 (2014) Polymer Science 20/82.
7. F. Radovanović, A. Nastasović, T. Tomković, D. Vasiljević-Radović, A. Nešić, S. Veličković, A. Onjia, "Novel membrane adsorbents incorporating functionalized polyglycidyl methacrylate," <i>Reactive and Functional Polymers</i> , 77 (2014) 1-10, doi:10.1016/j.reactfunctpolym.2014.01.007. If: 2.515 (2014) Engineering, Chemical 30/134.
8. T. Tomković, F. Radovanović, A. Nastasović, D. Vasiljević-Radović, J. Marković, B. Grgur, A. Onjia, "Solid phase extraction membranes with submicron multifunctional adsorbent particles," <i>European Polymer Journal</i> , 63 (2015) 90-100, doi:10.1016/j.eurpolymj.2014.12.015. If: 3.005 (2014) Polymer Science 19/82.*

* Izabran za Key Scientific Article od strane međunarodne konsultantske organizacije Advances in Engineering.

M22 - Rad u istaknutom međunarodnom časopisu Svrstan izmedju prvih 30 i 60% časopisa ISI liste.	Broj	1
1. P. Radovanovic and S. W. Thiel, "Partition coefficients at infinite dilution from Flory-Huggins theory," <i>Journal of Liquid Chromatography</i> , 13 (1990) 1571-1583, doi:10.1080/01483919008048976. If: 1.028 (1998) Chemistry, Analytical 31/65.		

M23 - Rad u međunarodnom časopisu Ostali časopisi ISI liste.	Broj	4
1. M. Mitrovic, F. Radovanovic, and L. Knezic, "Dual membrane separation I: Stage-wise dual separation," <i>Chemical Engineering Journal</i> , 28 (1984) 53-57. If: 0.570 (1998).		
2. M. Mitrovic and F. Radovanovic, "Dual membrane separation II: Concentration polarization reduction in dual cells," <i>Chemical Engineering Journal</i> , 28 (1984) 59-63. If: 0.570 (1998).		
3. T. Tomković, F. Radovanović, B. Grgur, A. Nastasović, D. Vasiljević-Radović, and A. Onjia, "Novel negatively-charged membrane adsorbents made using combination of photopolymerization and immersion precipitation," <i>Journal of the Serbian Chemical Society</i> , 81 (2016) 419-431, doi: 10.2298/JSC150805083T. If: 0.871 (2014) Chemistry, Multidisciplinary 114/157.		
4. M. Vorkapić, F. Radovanović, D. Čočkalović, D. Djordjević, "NPD in small manufacturing enterprises in Serbia," <i>Technical Gazette</i> , doi:10.17559/TV-20150807185156, If: 0.579 (2014) Engineering, Multidisciplinary 63/85.		

Od prethodnog izbora u zvanje naučni saradnik

M23 - Rad u međunarodnom časopisu Ostali časopisi ISI liste.	Poeni	6
3. T. Tomković, F. Radovanović, B. Grgur, A. Nastasović, D. Vasiljević-Radović, and A. Onjia, "Novel negatively-charged membrane adsorbents made using combination of photopolymerization and immersion precipitation," <i>Journal of the Serbian Chemical Society</i> , 81 (2016) 419-431, doi: 10.2298/JSC150805083T. If: 0.871 (2014)		

Chemistry, Multidisciplinary 114/157.
4. M. Vorkapić, F. Radovanović, D. Čočkalo, D. Djordjević, "NPD in small manufacturing enterprises in Serbia," <i>Technical Gazette</i> , doi:10.17559/TV-20150807185156, If: 0.579 (2014) Engineering, Multidisciplinary 63/85.

M31 - Predavanje po pozivu sa međunarodnog skupa štampano u celini	Broj	1
1. F. Radovanovic, "From viral barriers to proton conductors – novel applications for polymeric membranes," Proc. 11th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, Serbia, 2012, 420-427.		

Od prethodnog izbora u zvanje naučni saradnik

M31 - Predavanje po pozivu sa međunarodnog skupa štampano u celini	Poeni	3,5
1. F. Radovanovic, "From viral barriers to proton conductors – novel applications for polymeric membranes," Proc. 11th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, Serbia, 2012, 420-427.		

M33 - Saopštenje sa međunarodnog skupa štampano u celini	Broj	11
1. P. Radovanovic, M. Kellner, J. Matovic, and R. Liska, "Asymmetric sol-gel proton-conducting membrane," doi:10.3850/978-981-07-0319-6_207, Proceedings of the 8 ^h International Conference on Multi-Material Micro Manufacture, Stuttgart, Germany, 2011.		
2. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Photopolymerizable monomer formulations for nanoporous proton conducting membranes," doi:10.3850/978-981-07-0319-6_241, Proceedings of the 8 ^h International Conference on Multi-Material Micro Manufacture, Stuttgart, Germany, 2011.		
3. J. Matovic, Z. Jaksic, and P. Radovanovic, "Transfer of nanomembranes from solution to a solid frame via reflow of low surface tension liquids," Proceedings of the 28th International Conference on Microelectronics MIEL 2012, Niš, Serbia, 2012, 135-138, ISBN 978-1-4673-0235-7		
4. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Novel crosslinker for photopolymerization of proton conducting fuel cell membranes," Proceedings of the 9 th International Conference on Multi-Material Micro Manufacture, Vienna, Austria, 2012, 148-151.		
5. M. Kellner, F. Radovanovic, J. Matovic, R. Liska, "High performance proton conducting membranes for fuel cells made by photopolymerization of hydrolytically stable monomers," Proc. 11th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, Serbia, 2012, 492-494, ISBN 978-86-82475-27-9		
6. Z. Jakšić, F. Radovanović, A. Nastasović, "Functionalized polymer membranes for plasmonic sensing with enhanced selectivity," Proc. 11th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, Serbia, 2012, 495-497, ISBN 978-86-82475-27-9		
7. Z. Jakšić, F. Radovanović, A. Nastasović, J. Matović, "Multifunctionalized Self-supported (Nano) Membranes as Integrated Platform for Plasmonic Metamaterials",		

Proc. 34th PIERS, Stockholm, Sweden, 2013, 1016-1020, ISBN 978-1-934142-26-4
8. T.Tomković, F. Radovanović, A. Nastasovic, J. Marković, B. Ekmešić, S. Vidojković, A. Onjia, "Polyethersulfone membranes with integrated adsorbent particles for heavy metals capture," Proc. 12th Internat. Conf. on Fundamental and Applied Aspects of Physical Chemistry, Eds. S. Anić, Ž. Čupić, Vol. 2, Sep. 22-26, 2014, pp. 787-790, ISBN 978-86-82475-31-6
9. V. Jović, Z. Đinović, F. Radovanović, M. Starčević, J. Lamovec, M. Smiljanić, Ž. Lazić, "Characterization of PDMS membranes fabricated by bulk-micromachining of silicon wafers," Proc. 6th International Conference on Defensive Technologies OTEH-2014, Oct. 9-10, 2014, pp. 674-679
10. O. Jakšić, D. Tanasković, D. Randelović, F. Radovanović, "Adsorption-desorption based random number generator," Proc. 6th International Conference on Defensive Technologies OTEH-2014, Oct. 9-10, 2014, pp. 617-622
11. K. Radulović, F. Radovanović, D. Randjelović, V. Jović, J. Lamovec, D. Vasiljević Radović, Z. Jakšić, "Modelling size separation of NdFeB magnetic microparticles by magnetophoresis and gravity settling", Proceedings of 2nd International Conference on Electrical, Electronic and Computing Engineering, IcETRAN 2015, Silver Lake, Serbia, pp. MOI2.4-1-5, June 8 – 11, 2015, ISBN 978-86-80509-71-6

Od prethodnog izbora u zvanje naučni saradnik

M33 - Saopštenje sa međunarodnog skupa štampano u celini	Poeni	11
1. P. Radovanovic, M. Kellner, J. Matovic, and R. Liska, "Asymmetric sol-gel proton-conducting membrane," 4M Conference, Stuttgart, Germany, 2011.		
2. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Photopolymerizable monomer formulations for nanoporous proton conducting membranes," 4M Conference, Stuttgart, Germany, 2011.		
3. J. Matovic, Z. Jaksic, and P. Radovanovic, "Transfer of nanomembranes from solution to a solid frame via reflow of low surface tension liquids," MIEL 2012, Nis, Serbia, 2012, 135-138, ISBN 978-1-4673-0235-7		
4. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Novel crosslinker for photopolymerization of proton conducting fuel cell membranes," Proceedings of the 9 th International Conference on Multi-Material Micro Manufacture, Vienna, Austria, 2012, 148-151.		
5. M. Kellner, F. Radovanovic, J. Matovic, R. Liska, "High performance proton conducting membranes for fuel cells made by photopolymerization of hydrolytically stable monomers," Proc. 11th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, Serbia, 2012, 491-494, ISBN 978-86-82475-27-9		
6. Z. Jakšić, F. Radovanović, A. Nastasović, "Functionalized polymer membranes for plasmonic sensing with enhanced selectivity," Proc. 11th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, Serbia, 2012, 495-497, ISBN 978-86-82475-27-9		
7. Z. Jakšić, F. Radovanović, A. Nastasović, J. Matović, "Multifunctionalized Self-supported (Nano) Membranes as Integrated Platform for Plasmonic Metamaterials", Proc. 34th PIERS, Stockholm, Sweden, 2013, 1016-1020, ISBN 978-1-934142-26-4		
8. T.Tomković, F. Radovanović, A. Nastasovic, J. Marković, B. Ekmešić, S. Vidojković, A. Onjia, "Polyethersulfone membranes with integrated adsorbent particles for heavy metals capture," Proc. 12th Internat. Conf. on Fundamental and Applied Aspects of Physical Chemistry, Eds. S. Anić, Ž. Čupić, Vol. 2, Sep. 22-26, 2014, pp. 787-790,		

ISBN 978-86-82475-31-6
9. V. Jović, Z. Đinović, F. Radovanović, M. Starčević, J. Lamovec, M. Smiljanić, Ž. Lazić, "Characterization of PDMS membranes fabricated by bulk-micromachining of silicon wafers," Proc. 6th International Conference on Defensive Technologies OTEH-2014, Oct. 9-10, 2014, pp. 674-679
10. O. Jakšić, D. Tanasković, D. Randelović, F. Radovanović, "Adsorption-desorption based random number generator," Proc. 6th International Conference on Defensive Technologies OTEH-2014, Oct. 9-10, 2014, pp. 617-622
11. K. Radulović, F. Radovanović, D. Randjelović, V. Jović, J. Lamovec, D. Vasiljević Radović, Z. Jakšić, "Modelling size separation of NdFeB magnetic microparticles by magnetophoresis and gravity settling", Proceedings of 2nd International Conference on Electrical, Electronic and Computing Engineering, IcETRAN 2015, Silver Lake, Serbia, pp. MOI2.4-1-5, June 8 – 11, 2015, ISBN 978-86-80509-71-6

M34 - Saopštenje sa međunarodnog skupa štampano u izvodu	Broj	22
1. P. Radovanovic, S.W. Thiel and S-T. Hwang, "Skin formation of asymmetric polysulfone membranes prepared by immersion precipitation," 4 th North American Membrane Society Meeting, San Diego, CA, USA, 1991.		
2. P. Radovanovic, J. Mrozinski, G. Keenan and D. Morse, "Characterization of viral barrier membranes," 6 th North American Membrane Society Meeting, Brackenridge, CO, USA, 1994.		
3. V. Laninovic, A. Nastasovic, F. Radovanovic, A. Mitrovic, K. Jeremic and M. Radulovic, "Formation of polysulfone membranes by phase inversion method," 2 nd International Conference of the Chemical Societies of the South-Eastern European Countries on Chemical Sciences for Sustainable Development, Book of Abstracts, Halkidiki, Greece, 6-9. June, 2000, Vol. II, 53.		
4. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Proton conducting biomimetic membranes based on sulfonic polymers," 10th Austrian Polymer Meeting and 2nd Joint Austrian-Slovenian Polymer Meeting, Leoben, Austria, Book of Abstracts, 120 – 121, 2010.		
5. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Photopolymerization of proton conducting biomimetic membranes," European Symposium of Photopolymer Science, Mulhouse, France, 2010.		
6. P. Radovanovic, M. Kellner, J. Matovic, and R. Liska, "Novel asymmetric interpenetrating proton-conducting membrane," ICOM 2011, Amsterdam, Netherlands, 2011.		
7. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Proton conducting membranes based on photopolymerizable monomers," ICOM 2011, Amsterdam, Netherlands, 2011.		
8. P. Radovanovic, M. Kellner, J. Matovic, and R. Liska, "Asymmetric proton-conducting membrane made by photopolymerization," RadTech 2011, Basel, Switzerland, 2011.		
9. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Photopolymerization of crosslinked proton conducting membranes," RadTech 2011, Basel, Switzerland, 2011.		
10. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Novel crosslinkers for high performance poly-AMPS-based proton exchange membranes for fuel cells," European Symposium of Photopolymer Science, Torino, Italy, 2012.		
11. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Proton conducting fluorinated		

polymer nanomembrane for fuel cell applications,” European Symposium of Photopolymer Science, Torino, Italy, 2012.
12. Z. Jakšić, F. Radovanović, and A. Nastasović, “Membrane-based plasmonic nanocomposites for chemical or biological sensing,” Proc. Abstr. 3rd Internat. Conf. on the Physics of Optical Materials and Devices ICOM 2012, Belgrade, Serbia, 36, 2012, ISBN-978-86-7306-116-0
13. A. Nesić, S. Veličković, F. Radovanović, and A. Nastasović, “Novel asymmetric polyethersulfone membranes for ultrafiltration application,” 11th Young Researchers’ Conference: Materials Science and Engineering and the 1st European Early Stage Researchers’ Conference on Hydrogen Storage, Belgrade, Serbia, 2012, Book of abstracts TM40, 82, ISBN 978-86-7306-122-1
14. F. Radovanović, T. Tomković, A. Nastasović, S. Veličković, A. Nešić, and A. Onjia, “Asymmetric polyethersulfone membranes with crosslinked poly(glycidyl methacrylate) particles,” Book of Abstracts 8th International Conference of the Chemical Societies of the South-East European Countries ISOSECS 8, Belgrade, Serbia, 128, 2013, ISBN 978-86-7132-053-5.
15. F. Radovanović, T. Tomković, A. Nastasović, S. Veličković, A. Nešić, and A. Onjia, “Novel negatively-charged ultrafiltration membranes made by a combination of immersion precipitation and photopolymerization,” Book of Abstracts 8th International Conference of the Chemical Societies of the South-East European Countries ISOSECS 8, Belgrade, Serbia, 131, 2013, ISBN 978-86-7132-053-5.
16. F. Radovanović, T. Tomković, A. Nastasović, Z. Jakšić, “Silver nanoparticles within functionalized hydrogels for plasmonic (bio)chemical sensors,” Book of Abstracts 6th International Scientific Conference Contemporary Materials 2013, Banja Luka, Republic of Srpska, 62, 2013.
17. T. Tomković, F. Radovanović, A. Nastasović, D. Vasiljević-Radović, A. Onjia, “Novel membrane adsorbers incorporating cross-linked poly(glycidyl methacrylate-co-2-acrylamido-2-methylpropane sulfonic acid),” 12th Young Researchers’ Conference: Materials Science and Engineering, Belgrade, Serbia, 2013, Book of Abstracts, 38, ISBN 978-86-80321-28-8
18. A. Stajčić, F. Radovanović, A. Nastasović, J. Stajić-Trošić, J. Marković, A. Onjia, “Asymmetric hydrogel membranes for heavy metal adsorption,” 12th Young Researchers’ Conference: Materials Science and Engineering, Belgrade, Serbia, 2013, Book of Abstracts, 40, ISBN 978-86-80321-28-8
19. S. Ligon, M. Kellner, P. Radovanovic, J. Matovic, R. Liska, “Photocurable Poly-AMPS-Based Proton Exchange Membranes For Fuel Cells,” RadTech Europe 2013, Basel, Switzerland, Book of Abstracts, 88, 2013
20. T. Tomković, A. Nastasović, F. Radovanović, “Dynamic adsorption of Rhodamine B from dilute aqueous solutions using negatively-charged membrane adsorbers,” 13th Young Researchers’ Conference: Materials Science and Engineering, Belgrade, Serbia, Dec. 10-12, 2014, Program and the Book of Abstracts, 40, ISBN 978-86-80321-30-1
21. Z. Jakšić, J. Matović, M. Obradov, D. Tanasković, F. Radovanović, O. Jakšić, “Plasmonic Nanomembranes For Detection And Sensing,” XIX Symposium on Condensed Matter Physics, Sep. 7-11, 2015, Belgrade, Serbia, Book of Abstracts, 68
22. J. Lamovec, V. Jović, F. Radovanović, D. Randjelović, K. Radulović, Z. Jakšić, D. Vasiljević-Radović, Preparation of NdFeB Magnetic Nanoparticles by Surfactant-Assisted High Energy Ball Milling, Seventeenth Annual Conference YUCOMAT 2015, Aug 31-Sep 04, 2015, Herceg Novi, Montenegro, Programme and the Book of Abstracts, 66

Od prethodnog izbora u zvanje naučni saradnik

M34 - Saopštenje sa međunarodnog skupa štampano u izvodu	Poeni	8,5
6. P. Radovanovic, M. Kellner, J. Matovic, and R. Liska, "Novel asymmetric interpenetrating proton-conducting membrane," Proceedings International Congress on Membranes and Membrane Processes, ICOM 118, Amsterdam, Netherlands, 2011.		
7. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Proton conducting membranes based on photopolymerizable monomers," Proceedings International Congress on Membranes and Membrane Processes, ICOM 1086, Amsterdam, Netherlands, 2011.		
8. P. Radovanovic, M. Kellner, J. Matovic, and R. Liska, "Asymmetric proton-conducting membrane made by photopolymerization," RadTech 2011, Basel, Switzerland, 2011.		
9. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Photopolymerization of crosslinked proton conducting membranes," RadTech 2011, Basel, Switzerland, 2011.		
10. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Novel crosslinkers for high performance poly-AMPS-based proton exchange membranes for fuel cells," European Symposium of Photopolymer Science, Torino, Italy, 2012.		
11. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Proton conducting fluorinated polymer nanomembrane for fuel cell applications," European Symposium of Photopolymer Science, Torino, Italy, 2012.		
12. Z. Jakšić, F. Radovanović, and A. Nastasović, "Membrane-based plasmonic nanocomposites for chemical or biological sensing," Proc. Abstr. 3rd Internat. Conf. on the Physics of Optical Materials and Devices ICOM 2012, Belgrade, Serbia, 36, 2012, ISBN-978-86-7306-116-0		
13. A. Nesić, S. Veličković, F. Radovanović, and A. Nastasović, "Novel asymmetric polyethersulfone membranes for ultrafiltration application," 11th Young Researchers' Conference: Materials Science and Engineering and the 1st European Early Stage Researchers' Conference on Hydrogen Storage, Belgrade, Serbia, 2012, Book of abstracts TM40, 82, ISBN 978-86-7306-122-1		
14. F. Radovanović, T. Tomković, A. Nastasović, S. Veličković, A. Nešić, and A. Onjia, "Asymmetric polyethersulfone membranes with crosslinked poly(glycidyl methacrylate) particles," Book of Abstracts 8th International Conference of the Chemical Societies of the South-East European Countries ISOSECS 8, Belgrade, Serbia, 128, 2013, ISBN 978-86-7132-053-5.		
15. F. Radovanović, T. Tomković, A. Nastasović, S. Veličković, A. Nešić, and A. Onjia, "Novel negatively-charged ultrafiltration membranes made by a combination of immersion precipitation and photopolymerization," Book of Abstracts 8th International Conference of the Chemical Societies of the South-East European Countries ISOSECS 8, Belgrade, Serbia, 131, 2013, ISBN 978-86-7132-053-5.		
16. F. Radovanović, T. Tomković, A. Nastasović, Z. Jakšić, "Silver nanoparticles within functionalized hydrogels for plasmonic (bio)chemical sensors," Book of Abstracts 6th International Scientific Conference Contemporary Materials 2013, Banja Luka, Republic of Srpska, 62, 2013.		
17. T. Tomković, F. Radovanović, A. Nastasović, D. Vasiljević-Radović, A. Onjia, "Novel membrane adsorbers incorporating cross-linked poly(glycidyl methacrylate-co-2-acrylamido-2-methylpropane sulfonic acid)," 12th Young Researchers' Conference: Materials Science and Engineering, Belgrade, Serbia, 2013, Book of Abstracts, 38, ISBN 978-86-80321-28-8		

18. A. Stajčić, F. Radovanović, A. Nastasović, J. Stajić-Trošić, J. Marković, A. Onjia, "Asymmetric hydrogel membranes for heavy metal adsorption," 12th Young Researchers' Conference: Materials Science and Engineering, Belgrade, Serbia, 2013, Book of Abstracts, 40, ISBN 978-86-80321-28-8
19. S. Ligon, M. Kellner, P. Radovanovic, J. Matovic, R. Liska, "Photocurable Poly-AMPS-Based Proton Exchange Membranes For Fuel Cells," RadTech Europe 2013, Basel, Switzerland, Book of Abstracts, 88, 2013
20. T. Tomković, A. Nastasović, F. Radovanović, "Dynamic adsorption of Rhodamine B from dilute aqueous solutions using negatively-charged membrane adsorbers," 13th Young Researchers' Conference: Materials Science and Engineering, Belgrade, Serbia, Dec. 10-12, 2014, Program and the Book of Abstracts, 40, ISBN 978-86-80321-30-1
21. Z. Jakšić, J. Matović, M. Obradov, D. Tanasković, F. Radovanović, O. Jakšić, "Plasmonic Nanomembranes For Detection And Sensing," XIX Symposium on Condensed Matter Physics, Sep. 7-11, 2015, Belgrade, Serbia, Book of Abstracts, 68
22. J. Lamovec, V. Jović, F. Radovanović, D. Randjelović, K. Radulović, Z. Jakšić, D. Vasiljević-Radović, Preparation of NdFeB Magnetic Nanoparticles by Surfactant-Assisted High Energy Ball Milling, Seventeenth Annual Conference YUCOMAT 2015, Aug 31-Sep 04, 2015, Herceg Novi, Montenegro, Programme and the Book of Abstracts, 66

M51 – Vodeći casopis nacionalnog znacaja	Broj	6
1. F. Radovanović, Dj. Milosavljević i V. Trifunović, "Razvoj proizvodnje i opreme za procesnu industriju u Jugoslaviji", Almanah hemijske industrije 1983, 155-168.		
2. M. Mitrović i F. Radovanović, "Primena membranskih separacionih tehnika u prehrambenoj industriji", Hemijska Industrija, 38 (5) 1984 159-162		
3. M. Mitrović i F. Radovanović, "Membranski procesi – I Osnove membranske nauke i tehnologije", Hemijska Industrija 38 (11) 1984 343-347		
4. M. Mitrović i F. Radovanović, "Membranski procesi – II Teorija membranskih procesa", Hemijska Industrija 38 (12) 1984 370-373		
5. M. Mitrović i F. Radovanović, "Membranski procesi – III Separacioni procesi i uređaji za membransku separaciju", Hemijska Industrija 39 (1) 1985 29-34		
6. M. Mitrović i F. Radovanović, "Membranski procesi – IV Aktuelne primene membranskih procesa", Hemijska Industrija 39 (2) 1985 53-56		

M53 - Rad u časopisu	Broj	3
1. M. Mitrović and F. Radovanović, "Membrane supported liquid-phase catalysts. A preliminary analysis," <i>Bulletin of the Belgrade Chemical Society</i> , 46 (1981) 429-435.		
2. M. Mitrović, F. Radovanović, and Q. Wu, "Dual membrane separation of organic binary mixtures and emulsions," <i>Bulletin of the Belgrade Chemical Society</i> , 48 (1983) 519-524.		
3. A. Stajčić, A. Nastasović, J. Stajić-Trošić, J. Marković, A. Onjia, F. Radovanovic, "Novel membrane-supported hydrogel for removal of heavy metals," <i>Journal of Environmental Chemical Engineering</i> , 3 (2015) 453-461.		

Od prethodnog izbora u zvanje naučni saradnik

M53 - Rad u časopisu	Poeni	1
3. A. Stajčić; A. Nastasović; J. Stajić-Trošić; J. Marković; A. Onjia; F. Radovanovic, "Novel membrane-supported hydrogel for removal of heavy metals," <i>Journal of Environmental Chemical Engineering</i> , 3 (2015) 453-461.		

M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini	Broj	1
1. F. Radovanović, T. Tomković, A. Nastasović, M. Obradov, Z. Jakšić, "Nanoplasmonic multifunctionalization of glycidyl methacrylate hydrogel membranes for adsorption-based chemical sensors with enhanced selectivity," Proc. 57th ETRAN Conference, Zlatibor, Serbia, 2013, MO2.5.1-5, ISBN 978-86-80509-68-6		

Od prethodnog izbora u zvanje naučni saradnik

M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini	Poeni	0,5
1. F. Radovanović, T. Tomković, A. Nastasović, M. Obradov, Z. Jakšić, "Nanoplasmonic multifunctionalization of glycidyl methacrylate hydrogel membranes for adsorption-based chemical sensors with enhanced selectivity," Proc. 57th ETRAN Conference, Zlatibor, Serbia, 2013, MO2.5.1-5, ISBN 978-86-80509-68-6		

M91 – Registrovan patent na međunarodnom nivou	Broj	12
1. Weimer, W. K., Keenan, G. E., Kinney, R. J., Mrozinski, J. S., and Radovanovic, P. D., <i>US 5690949</i> , "Microporous membrane material for preventing transmission of viral pathogens," 1997.		
2. Weimer, W. K., Keenan, G. E., Kinney, R. J., Mrozinski, J. S., and Radovanovic, P. D., <i>US 5738111</i> , "Method for preventing transmission of viral pathogens," 1998.		
3. Weimer, W. K., Keenan, G. E., Kinney, R. J., Mrozinski, J. S., and Radovanovic, P. D., <i>US 5935370</i> , "Method for laminating a viral barrier microporous membrane to a nonwoven web to prevent transmission of viral pathogens," 1999.		
4. Weimer, W. K., Keenan, G. E., Kinney, R. J., Mrozinski, J. S., and Radovanovic, P. D., <i>US 5981038</i> , "Laminate preventing transmission of viral pathogens," 1999.		
5. Mrozinski, J. S., Burleigh, M. B., Radovanovic, P. D., and Johnson, B. D., <i>US 5989698</i> , "Coated porous materials," 1999.		
6. Radovanovic, P. D., Krogseng, G. P., Waller, C. P., Mrozinski, J. S., and Krueger, D. L., <i>US 5993954</i> , "Temperature-sensitive microporous film," 1999.		
7. Radovanovic, P. D. and Thomas, S. D., <i>US 6096213</i> , "Puncture-resistant polyolefin membranes," 2000.		
8. Radovanovic, P. D., Perez, M. A., and Thomas, S. D., <i>US 6461724</i> , "Microporous material resistant to capillary collapse," 2002.		
9. Mrozinski, J. S., Burleigh, M. B., Radovanovic, P. D., and Johnson, B. D., <i>US 6486291</i> , "Coated porous materials," 2002.		
10. Kollaja, R. A., Nguyen, D. D., Steelman, R. S., Ree, B. R., Solomonson, S.D., and Radovanovic, P. D., <i>US 6579601</i> , "Conformable multilayer films," 2003.		
11. Hester, J. F., Spiewak, B.E., Radovanovic, P. D., Reimann, S.R., and Kody, R. S., <i>US 6986428</i> , "Fluid separation membrane module," 2006.		

12. Radovanovic, P., Matovic J., Liska R., and Kellner M., AT Patent 511 431 B1, "Herstellung Asymmetrischer Membranen," 2012.
--

Od prethodnog izbora u zvanje naučni saradnik

M91 – Registrovan patent na međunarodnom nivou	Poeni	16
12. Radovanovic, P., Matovic J., Liska R., and Kellner M., AT Patent 511 431 B1, "Herstellung Asymmetrischer Membranen," 2012.		

M94 – Objavljen patent na nacionalnom nivou	Broj	1
1. F. Radovanović, A. Nastasović, A. Nešić, S. Veličković, P-2013/0157, "Asimetrična porozna membrana sa epoksidnim prstenovima," 2015.		

Od prethodnog izbora u zvanje naučni saradnik

M94 – Objavljen patent na nacionalnom nivou	Poeni	7
1. F. Radovanović, A. Nastasović, A. Nešić, S. Veličković, P-2013/0157, "Asimetrična porozna membrana sa epoksidnim prstenovima," 2015.		

Broj poena za sledeće zvanje	Ima	Potrebno
Total:	87,5	50
M10 M20 M31-33 M41-42 M51 M80 M90:	77,5	40
M21-23:	40	15
M81-83, M90-96, M101-103, M108	23	7



1989

25/5/2012

Dear Professor Radovanović

The Society of Physical Chemists of Serbia organizes the 11th International Conference on Fundamental and Applied Aspects of Physical Chemistry "Physical Chemistry 2012", which will be held in Belgrade, September 24-28, 2012. We will be very honored if you could participate by giving a Section lecture. The choice of the title of the lecture is on you.

If you accept our invitation, please let us know.

Sincerely yours,

Dr Željko Čupić
Chairman
of Conference Scientific Committee

Dr Slobodan Anić
President
of the Society of Physical Chemists of Serbia

Извештај о цитираности радова др Филипа Радовановића

јун 2016.

Укупан број цитата у бази података Web of Science: 276; без аутоцитата: 265

h-index: 5

Укупан број цитата у базама података Web of Science и Scopus: 287; без аутоцитата: 274

h-index: 6

1. P. Radovanovic, S. W. Thiel, and S. T. Hwang, "Formation of asymmetric polysulfone membranes by immersion precipitation. 1. Modeling mass-transport during gelation," *Journal of Membrane Science*, 65 (1992) 213-229.

Рад је цитиран у:

1. P. Vanderwitte, H. Esselbrugge, A.M.P. Peters, P.J. Dijkstra, J. Feijen, R.J.J. Groenewegen, J. Smid, J. Olijslager, J.M. Schakenraad, M.J.D. Eenink, A.P. Sam, Formation of porous membranes for drug delivery systems, *Journal of Controlled Release*, 24 (1993) 61-73.
2. R.M. Boom, T. van den Boomgaard, C.A. Smolders, Mass-transfer and thermodynamics during immersion precipitation for a 2-polymer system-Evaluation with the system PES-PVP-NMP-water, *Journal of Membrane Science*, 90 (1994) 231-249.
3. R.M. Boom, T. van den Boomgaard, C.A. Smolders, Equilibrium thermodynamics of a quaternary membrane-forming system with 2 polymers. 1. Calculations, *Macromolecules*, 27 (1994) 2034-2040.
4. M. Han, D. Bhattacharyya, Morphology and transport study of phase inversion polysulfone membranes, *Chemical Engineering Communications*, 128 (1994) 197-209.
5. R.M. Boom, H.W. Reinders, H.H.W. Rolevink, T. van den Boomgaard, C.A. Smolders, Equilibrium thermodynamics of a quaternary membrane-forming system with 2 polymers. 2. Experiments, *Macromolecules*, 27 (1994) 2041-2044.
6. S.S. Shojai, W.B. Krantz, A.R. Greenberg, Dense polymer film and membrane formation via dry-cast process. 1. Model development, *Journal of Membrane Science*, 94 (1994) 255-280.
7. M.J. Han, D. Bhattacharyya, Changes in morphology and transport characteristics of polysulfone membranes prepared by different demixing conditions, *Journal of Membrane Science*, 98 (1995) 191-200.
8. J.P.C. Addad, B. Icard, L. Pellicoli, Skinned polymeric membranes-Approach to the mechanism of formation of surface holes, *Polymer International*, 38 (1995) 299-303.
9. J.P.C. Addad, R. Pedrobom, Phase-inversion membranes-Characterization patterns of skin holes, *Macromolecular Chemistry and Physics*, 196 (1995) 3615-3621.
10. I.M. Wienk, F.H.A.O. Scholtenhuis, T. van den Boomgaard, C.A. Smolders, Spinning of hollow fiber ultrafiltration membranes from a polymer blend, *Journal of Membrane Science*, 106 (1995) 233-243.
11. W.I. Li, K.W. Anderson, P.P. DeLuca, Kinetic and thermodynamic modeling of the formation of polymeric microspheres using solvent extraction/evaporation method, *Journal of Controlled Release*, 37 (1995) 187-198.
12. T.H. Young, L.W. Chen, Pore formation mechanism of membranes from phase inversion process, *Desalination*, 103 (1995) 233-247.

13. J.H. Hao, S.C. Wang, Calculation of a ternary phase diagram for the nonsolvent solvent polymer system, *Chemical Journal of Chinese Universities-Chinese*, 16 (1995) 1831-1836.
14. A.M.W. Bulte, M.H.V. Mulder, C.A. Smolders, H. Strathmann, Diffusion induced phase separation with crystallizable nylons .1. Mass transfer processes for nylon 4,6, *Journal of Membrane Science*, 121 (1996) 37-49.
15. Stropnik, Č., and Lj. Germlč, 'Some Aspects of Polymeric Asymmetric Porous Membrane Formation by Phase Inversion', *Polimeri (Zagreb)*, 17 (1996), 137-42 (Scopus)
16. S.R. Kim, K.H. Lee, M.S. Jhon, The effect of ZnCl₂ on the formation of polysulfone membrane, *Journal of Membrane Science*, 119 (1996) 59-64.
17. A.M.W. Bulte, M.H.V. Mulder, C.A. Smolders, H. Strathmann, Diffusion induced phase separation with crystallizable nylons .2. Relation to final membrane morphology, *Journal of Membrane Science*, 121 (1996) 51-58.
18. H.J. Kim, R.K. Tyagi, A.E. Fouda, K. Jonasson, The kinetic study for asymmetric membrane formation via phase-inversion process, *Journal of Applied Polymer Science*, 62 (1996) 621-629.
19. C. Stropnik, L. Germic, B. Zerjal, Morphology variety and formation mechanisms of polymeric membranes prepared by wet phase inversion, *Journal of Applied Polymer Science*, 61 (1996) 1821-1830.
20. P. vandeWitte, P.J. Dijkstra, J.W.A. vandenBerg, J. Feijen, Phase separation processes in polymer solutions in relation to membrane formation, *Journal of Membrane Science*, 117 (1996) 1-31.
21. P. vandeWitte, H. Esselbrugge, P.J. Dijkstra, J.W.A. vandenBerg, J. Feijen, A morphological study of membranes obtained from the systems polylactide-dioxane-methanol, polylactide-dioxane-water, and polylactide-N-methyl pyrrolidone-water, *Journal of Polymer Science Part B-Polymer Physics*, 34 (1996) 2569-2578.
22. P. vandeWitte, H. Esselbrugge, P.J. Dijkstra, J.W.A. vandenBerg, J. Feijen, Phase transitions during membrane formation of polylactides .1. A morphological study of membranes obtained from the system polylactide-chloroform-methanol, *Journal of Membrane Science*, 113 (1996) 223-236.
23. I.M. Wienk, R.M. Boom, M.A.M. Beerlage, A.M.W. Bulte, C.A. Smolders, H. Strathmann, Recent advances in the formation of phase inversion membranes made from amorphous or semi-crystalline polymers, *Journal of Membrane Science*, 113 (1996) 361-371.
24. T.H. Young, L.W. Chen, L.P. Cheng, Membranes with a microparticulate morphology, *Polymer*, 37 (1996) 1305-1310.
25. B.F. Barton, J.L. Reeve, A.J. McHugh, Observations on the dynamics of nonsolvent-induced phase inversion, *Journal of Polymer Science Part B-Polymer Physics*, 35 (1997) 569-585.
26. H. Matsuyama, M. Teramoto, T. Uesaka, Membrane formation and structure development by dry-cast process, *Journal of Membrane Science*, 135 (1997) 271-288.
27. M.J. Han, P.M. Bummer, M. Jay, Solid scintillation proximity membranes I: Characterization of polysulfone-inorganic fluor morphologies precipitated from NMP solutions, *Journal of Membrane Science*, 140 (1998) 235-242.
28. J.S. Yan, W.W.Y. Lau, Effect of internal coagulant on morphology of polysulfone hollow fiber membranes. I, *Separation Science and Technology*, 33 (1998) 33-55.
29. T.H. Young, D.M. Wang, C.C. Hsieh, L.W. Chen, The effect of the second phase inversion on microstructures in phase inversion EVAL membranes, *Journal of Membrane Science*, 146 (1998) 169-178.
30. J.P.C. Addad, P. Panine, Pore generation in asymmetric polymeric membranes - Correlation with solvent mobilities, *Polymer Bulletin*, 42 (1999) 345-352.
31. K. Beltsios, E. Athanasiou, C. Aidinis, N. Kanellopoulos, Microstructure formation phenomena in phase inversion membranes, *Journal of Macromolecular Science-Physics*, B38 (1999) 1-25.
32. T.S. Chung, Z.L. Xu, W.H. Lin, Fundamental understanding of the effect of air-gap distance on the fabrication of hollow fiber membranes, *Journal of Applied Polymer Science*, 72 (1999) 379-395.

33. M.T. Domenech-Carbo, E. Aura-Castro, Evaluation of the phase inversion process as an application method for synthetic polymers in conservation work, *Studies in Conservation*, 44 (1999) 19-28.
34. M.J. Han, Effect of propionic acid in the casting solution on the characteristics of phase inversion polysulfone membranes, *Desalination*, 121 (1999) 31-39.
35. P.S.T. Machado, A.C. Habert, C.P. Borges, Membrane formation mechanism based on precipitation kinetics and membrane morphology: flat and hollow fiber polysulfone membranes, *Journal of Membrane Science*, 155 (1999) 171-183.
36. H. Matsuyama, M. Teramoto, R. Nakatani, T. Maki, Membrane formation via phase separation induced by penetration of nonsolvent from vapor phase. I. Phase diagram and mass transfer process, *Journal of Applied Polymer Science*, 74 (1999) 159-170.
37. H. Matsuyama, M. Teramoto, R. Nakatani, T. Maki, Membrane formation via phase separation induced by penetration of nonsolvent from vapor phase. II. Membrane morphology, *Journal of Applied Polymer Science*, 74 (1999) 171-178.
38. T.H. Young, C.C. Hsieh, L.Y. Chen, Y.S. Huang, The formation mechanism of membranes prepared from the crystalline EVAL polymer-water (nonsolvent)-2-propanol (nonsolvent) system, *Journal of Membrane Science*, 159 (1999) 21-27.
39. P. Aerts, I. Genne, S. Kuypers, R. Leysen, I.F.J. Vankelecom, P.A. Jacobs, Polysulfone-aerosil composite membranes Part 2. The influence of the addition of aerosil on the skin characteristics and membrane properties, *Journal of Membrane Science*, 178 (2000) 1-11.
40. P. Aerts, E. Van Hoof, R. Leysen, I.F.J. Vankelecom, P.A. Jacobs, Polysulfone-Aerosil composite membranes - Part 1. The influence of the addition of Aerosil on the formation process and membrane morphology, *Journal of Membrane Science*, 176 (2000) 63-73.
41. B.F. Barton, A.J. McHugh, Modeling the dynamics of membrane structure formation in quenched polymer solutions, *Journal of Membrane Science*, 166 (2000) 119-125.
42. V. Kaiser, C. Stropnik, Membranes from polysulfone/N,N-dimethylacetamide/water system; Structure and water flux, *Acta Chimica Slovenica*, 47 (2000) 205-213. H. Matsuyama, M. Nishiguchi, Y. Kitamura, Phase separation mechanism during membrane formation by dry-cast process, *Journal of Applied Polymer Science*, 77 (2000) 776-783.
43. Pinnau, B.D. Freeman, Formation and modification of polymeric membranes: overview, in: I. Pinnau, B.D. Freeman (Eds.) *Membrane Formation and Modification*, 2000, pp. 1-22.
44. C. Stropnik, V. Musil, M. Brumen, Polymeric membrane formation by wet-phase separation; turbidity and shrinkage phenomena as evidence for the elementary processes, *Polymer*, 41 (2000) 9227-9237.
45. H.A. Tsai, L.D. Li, K.R. Lee, Y.C. Wang, C.L. Li, J. Huang, J.Y. Lai, Effect of surfactant addition on the morphology and pervaporation performance of asymmetric polysulfone membranes, *Journal of Membrane Science*, 176 (2000) 97-103.
46. T.H. Young, Y.H. Huang, Y.S. Huang, The formation mechanism of EVAL membranes prepared with or without the nonsolvent absorption process, *Journal of Membrane Science*, 171 (2000) 197-206.
47. M.A. Artale, V. Augugliaro, E. Drioli, G. Golemme, C. Grande, V. Loddo, R. Molinari, L. Palmisano, M. Schiavello, Preparation and characterisation of membranes with entrapped TiO₂ and preliminary photocatalytic tests, *Annali Di Chimica*, 91 (2001) 127-136.
48. Y.D. Kim, J.Y. Kim, H.K. Lee, S.C. Kim, A new modeling of asymmetric membrane formation in rapid mass transfer system, *Journal of Membrane Science*, 190 (2001) 69-77.
49. L.P. Cheng, T.H. Young, W.Y. Chuang, L.Y. Chen, L.W. Chen, The formation mechanism of membranes prepared from the nonsolvent-solvent-crystalline polymer systems, *Polymer*, 42 (2001) 443-451.
50. G.R. Fernandes, J.C. Pinto, R. Nobrega, Modeling and simulation of the phase-inversion process during membrane preparation, *Journal of Applied Polymer Science*, 82 (2001) 3036-3051.

51. J.H. Hao, S.C. Wang, Calculation of alcohol-acetone-cellulose acetate ternary phase diagram and their relevance to membrane formation, *Journal of Applied Polymer Science*, 80 (2001) 1650-1657.
52. P.R. Laity, P.M. Glover, A. Barry, J.N. Hay, Studies of non-solvent induced polymer coagulation by magnetic resonance imaging, *Polymer*, 42 (2001) 7701-7710.
53. Z.S. Li, C.Z. Jiang, Investigation into the rheological properties of PES/NMP/nonsolvent membrane-forming systems, *Journal of Applied Polymer Science*, 82 (2001) 283-291.
54. M. Dabral, L.F. Francis, L.E. Scriven, Drying process paths of ternary polymer solution coating, *Aiche Journal*, 48 (2002) 25-37.
55. M.J. Han, S.T. Nam, Thermodynamic and rheological variation in polysulfone solution by PVP and its effect in the preparation of phase inversion membrane, *Journal of Membrane Science*, 202 (2002) 55-61.
56. T. Kobayashi, P.S. Reddy, M. Ohta, M. Abe, N. Fujii, Molecularly imprinted polysulfone membranes having acceptor sites for donor dibenzofuran as novel membrane adsorbents: Charge transfer interaction as recognition origin, *Chemistry of Materials*, 14 (2002) 2499-2505.
57. Laity, P.R., P.M. Glover, and J.N. Hay, Composition and Phase Changes Observed by Magnetic Resonance Imaging during Non-Solvent Induced Coagulation of Cellulose, *Polymer*, 43 (2002), 5827-37.
58. H. Matsuyama, M. Tachibana, T. Maki, M. Teramoto, Light-scattering study on porous membrane formation by dry-cast process, *Journal of Applied Polymer Science*, 86 (2002) 3205-3209.
59. C. Stropnik, V. Kaiser, Polymeric membranes preparation by wet phase separation: mechanisms and elementary processes, *Desalination*, 145 (2002) 1-10.
60. H.A. Tsai, R.C. Ruaan, D.M. Wang, J.Y. Lai, Effect of temperature and span series surfactant on the structure of polysulfone membranes, *Journal of Applied Polymer Science*, 86 (2002) 166-173.
61. H. Caquineau, P. Menut, A. Deratani, C. Dupuy, Influence of the relative humidity on film formation by vapor induced phase separation, *Polymer Engineering and Science*, 43 (2003) 798-808.
62. K.W. Lee, B.K. Seo, S.T. Nam, M.J. Han, Trade-off between thermodynamic enhancement and kinetic hindrance during phase inversion in the preparation of polysulfone membranes, *Desalination*, 159 (2003) 289-296.
63. H. Matsuyama, K. Nakagawa, T. Maki, M. Teramoto, Studies on phase separation rate in porous polyimide membrane formation by immersion precipitation, *Journal of Applied Polymer Science*, 90 (2003) 292-296.
64. Chwojnowski, E. Lukowska, K. Dudzinski, C. Wojciechowski, P. Swiatek, M. Szczepaniak, J. Bukowski, M. Kozuchowski, Semi-permeable polysulfonic membranes to obtain dry tests, *Desalination*, 163 (2004) 93-101.
65. Akthakul, C.E. Scott, A.M. Mayes, A.J. Wagner, Lattice Boltzmann simulation of asymmetric membrane formation by immersion precipitation, *Journal of Membrane Science*, 249 (2005) 213-226.
66. V.P. Khare, A.R. Greenberg, W.B. Krantz, Vapor-induced phase separation - effect of the humid air exposure step on membrane morphology Part I. Insights from mathematical modeling, *Journal of Membrane Science*, 258 (2005) 140-156.
67. V. Laninovic, Relationship between type of nonsolvent additive and properties of polyethersulfone membranes, *Desalination*, 186 (2005) 39-46.
68. V. Laninovic, Structure of flat sheet membranes obtained from the system polyethersulfone-dimethylacetamide-nonsolvent additive-water, *Polymer Science - Series A / Высокомолекулярные соединения. Серия А*, 47, (2005) 1196-1202.
69. Z.S. Li, C.Z. Jiang, Investigation of the dynamics membrane formation by of poly(ether sulfone) membrane formation by precipitation immersion, *Journal of Polymer Science Part B-Polymer Physics*, 43 (2005) 498-510.
70. S.S. Madaeni, A. Rahimpour, M. Barzin, Preparation of polysulphone ultrafiltration membranes for milk concentration: Effect of additives on morphology and performance, *Iranian Polymer Journal*, 14 (2005) 421-428.

71. Stropnik, V. Kaiser, V. Musil, M. Brumen, Wet-phase-separation membranes from the polysulfone/N,N-dimethylacetamide/water ternary system: The formation and elements of their structure and properties, *Journal of Applied Polymer Science*, 96 (2005) 1667-1674.
72. K.W. Lee, B.K. Seo, N.J. Lim, S.T. Nam, M.J. Han, Effect of nonsolvent coagulant on the morphology and radionuclide detection efficiency of CAYS-impregnated polysulfone films, *Journal of Applied Polymer Science*, 99 (2006) 1903-1909.
73. L.J. Wang, Z.S. Li, J.Z. Ren, S.G. Li, C.Z. Jiang, Preliminary studies on the gelation time of poly(ether sulfones) membrane-forming system with an elongation method, *Journal of Membrane Science*, 275 (2006) 46-51.
74. Y. Yip, A.J. McHugh, Modeling and simulation of nonsolvent vapor-induced phase separation, *Journal of Membrane Science*, 271 (2006) 163-176.
75. Bhattacharya, A., P. Ray, H. Brahmabhatt, K.N. Vyas, S.V. Joshi, C.V. Devmurari, and others, Pesticides Removal Performance by Low-Pressure Reverse Osmosis Membranes, *Journal of Applied Polymer Science*, 102 (2006), 3575-79.
76. V. Kaiser, C. Stropnik, V. Musil, M. Brumen, Morphology of solidified polysulfone structures obtained by wet phase separation, *European Polymer Journal*, 43 (2007) 2515-2524.
77. H. Sawalha, K. Schroen, R. Boom, Polylactide films formed by immersion precipitation: Effects of additives, nonsolvent, and temperature, *Journal of Applied Polymer Science*, 104 (2007) 959-971.
78. Yang, X.-T., Z.-L. Xu, and Y.-M. Wei, 'Effect of Polymer Additives PVP and PEG on the Diffusion Property of PVDF/PVP(PEG)/DMAc Dope Solution', *Gao Xiao Hua Xue Gong Cheng Xue Bao/Journal of Chemical Engineering of Chinese Universities*, 21 (2007), 221-26 (Scopus)
79. C.Y. Kuo, S.L. Su, H.A. Tsai, Y.S. Su, D.M. Wang, J.Y. Lai, Formation and evolution of a bicontinuous structure of PMMA membrane during wet immersion process, *Journal of Membrane Science*, 315 (2008) 187-194.
80. Z.Y. Li, H.H. Tang, X.W. Liu, Y.J. Xia, J.Z. Jiang, Preparation and characterization of microporous poly(vinyl butyral) membranes by supercritical CO₂-induced phase separation, *Journal of Membrane Science*, 312 (2008) 115-124.
81. P.Y. Qin, B.B. Han, C.X. Chen, J.D. Li, B.H. Sun, Performance control of asymmetric poly(phthalazinone ether sulfone ketone) ultrafiltration membrane using gelation, *Korean Journal of Chemical Engineering*, 25 (2008) 1407-1415.
82. Choi, S.-R., S.-J. Park, B.-K. Seo, K.W. Lee, and M.-J. Han, Effect of Toluene Added to Casting Solution on Characteristic of Phase Inversion Polysulfone Membrane, *Journal of the Korean Industrial and Engineering Chemistry*, 19 (2008), 633-39
83. J. Ren, R. Wang, Preparation of polymeric membranes, in *Membrane and Desalination Technologies*, Handbook of Environmental Engineering, Vol. 13 (2008) 47-100.
84. V. Laninovic, Preparation of composite membranes by deposition of polyethersulfone onto the glass non-woven sheet, *Journal of Polymer Engineering* 28 (2008) 405 - 419.
85. G.D. Verros, Application of non-equilibrium thermodynamics and computer aided analysis to the estimation of diffusion coefficients in polymer solutions: the solvent evaporation method, *Journal of Membrane Science*, 328 (2009) 31-57.
86. H. Lee, W.B. Krantz, S.T. Hwang, A model for wet-casting polymeric membranes incorporating nonequilibrium interfacial dynamics, vitrification and convection, *Journal of Membrane Science*, 354 (2010) 74-85.
87. Y. Cai, J.X. Li, Y.G. Guo, Z.Y. Cui, Y.Z. Zhang, In-situ monitoring of asymmetric poly(ethylene-co-vinyl alcohol) membrane formation via a phase inversion process by an ultrasonic through-transmission technique, *Desalination*, 283 (2011) 25-30.
88. G.R. Guillen, Y.J. Pan, M.H. Li, E.M.V. Hoek, Preparation and Characterization of Membranes Formed by Nonsolvent Induced Phase Separation: A Review, *Industrial & Engineering Chemistry Research*, 50 (2011) 3798-3817.

89. Lee, J.Y., K.W. Lee, M.-J. Han, and S.-J. Park, Preparation and Characterization of Polysulfone Membranes Using PVP as an Additive, *Applied Chemistry for Engineering*, 22 (2011), 277–85
90. X.H. He, C.J. Chen, Z.Y. Jiang, Y.L. Su, Computer simulation of formation of polymeric ultrafiltration membrane via immersion precipitation, *Journal of Membrane Science*, 371 (2011) 108-116.
91. X.S. Huang, Separator technologies for lithium-ion batteries, *Journal of Solid State Electrochemistry*, 15 (2011) 649-662.
92. Y. Cai, J. Li, X. Zhang, Y. Zhang, In-situ monitoring of polysulfone membrane formation via immersion precipitation using an ultrasonic through-transmission technique, *Desalination and Water Treatment*, 32 (2011) 214-225.
93. S. Zhao, Z. Wang, X. Wei, B. Zhao, J. Wang, Shangbao Yang, and others, Performance Improvement of Polysulfone Ultrafiltration Membrane Using PANiEB as Both Pore Forming Agent and Hydrophilic Modifier, *Journal of Membrane Science*, 385 (2011), 251–62.
94. Z.H. Wang, J. Ma, The role of nonsolvent in-diffusion velocity in determining polymeric membrane morphology, *Desalination*, 286 (2012) 69-79.
95. Z.G. Zhao, J.F. Zheng, M.J. Wang, H.Y. Zhang, C.C. Han, High performance ultrafiltration membrane based on modified chitosan coating and electrospun nanofibrous PVDF scaffolds, *Journal of Membrane Science*, 394 (2012) 209-217.
96. P.C. Liu, J.H. Ma, S.G. Yang, J.H. Gong, J. Xu, Research progress on the preparation of ceramic hollow fiber membranes by nonsolvent induced phase separation, *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, 27 (2012) 673-679.
97. S. Mulijani, A. Mulanawati, Enhanced performance of asymmetric polystyrene membrane by incorporation of pluronic F127 and its application for pervaporation separation, *Procedia Chemistry*, 4 (2012) 360-366.
98. N. Peng, N. Widjojo, P. Sukitpaneemit, M.M. Teoh, G.G. Lipscomb, T.S. Chung, J.Y. Lai, Evolution of polymeric hollow fibers as sustainable technologies: Past, present, and future, *Progress in Polymer Science*, 37 (2012) 1401-1424.
99. M. Sadrzadeh, S. Bhattacharjee, Rational design of phase inversion membranes by tailoring thermodynamics and kinetics of casting solution using polymer additives, *Journal of Membrane Science*, 441 (2013) 31-44.
100. H. Zhang, J. Zheng, Z. Zhao, C.C. Han, Role of wettability in interfacial polymerization based on PVDF electrospun nanofibrous scaffolds, *Journal of Membrane Science*, 442 (2013) 124-130.
101. W. Shi, G. He, W. Zhao, L. Zhang, L. Du, Y. Wang, Effects of solvent and nonsolvent diffusion velocities on the morphology of cellular polyetherimide membranes prepared using supercritical CO₂ phase inversion, *Journal of Supercritical Fluids*, 83 (2013) 6-14.
102. X. Liu, H.-G. Jung, S.-O. Kim, H.-S. Choi, S. Lee, J.H. Moon, J.K. Lee, Silicon/copper dome-patterned electrodes for high-performance hybrid supercapacitors, *Scientific Reports*, 3 (2013) AN 3183.
103. Zhu, W. Zhao, C. He, L. Ma, C. Zhao, Molecular Imprinted Polysulfone Membranes for the Sieving, Binding, and Recognition of Bisphenol A, *International Journal of Polymeric Materials* 62 (2013) 17-22.
104. B.S. Lalia, V. Kochkodan, R. Hashaiekh, N. Hilal, A review on membrane fabrication: Structure, properties and performance relationship, *Desalination* 326 (2013) 77-95.
105. J.-L. Guo, Y. Li, Z.-L. Xu, P.-Y. Zhang, H. Yang, Investigation of polyvinylidene fluoride membranes prepared by using surfactant OP-10 alone or with a second component, as additives, via the non-solvent-induced phase separation (NIPS) process, *J. Macromol. Sci. Phys.*, 53 (2014) 1319-1334.
106. Y. Yu, S. Liu, Y. Wang, H. Zhang, X. Li, Z. Jiang, B. Liu, Asymmetric membranes prepared with trifluoromethylphenylated poly(ether ether ketone) for gas separation, *High Performance Polymers*, May 28 (2014) 1-9.

107. H. Fan, F. Ran, X. Zhang, H. Song, W. Jing, K. Shen, L. Kong, L. Kang, A hierarchical porous carbon membrane from polyacrylonitrile/polyvinylpyrrolidone blending membranes: Preparation, characterization and electrochemical capacitive performance, *J. Energy Chem.*, 23 (2014) 684-693.
108. Elhaj, K. Irgum, Monolithic space-filling porous materials from engineering plastics by thermally induced phase separation, *ACS Appl. Mater. Interfaces*, 6 (2014) 15653–15666.
109. Ling-Yun Ji, Bao-Li Shi, and Qing-Wen Wang, Pervaporation Separation of Ethanol via Adsorbent-Filled Silicon Rubber Membranes, *Membrane Water Treatment*, 5 (2014), 265–79
110. L. Zheng, Z. Ma, Z. Li, Q. Yan, Rapid nanostructuring of polymer colloid surfaces by nonsolvent induced phase separation, *J. Colloid Interface Sci.*, 441 (2015) 39-45.
111. L. Keshavarz, M.A. Khansary, S. Shirazian, Phase diagram of ternary polymeric solutions containing nonsolvent/solvent/polymer: Theoretical calculation and experimental validation, *Polymer*, 73 (2015) 1-8.
112. Aryanti, P. T. P., R. Yustiana, R. E. D. Purnama, and I. G. Wenten, 'Performance and Characterization of PEG400 Modified PVC Ultrafiltration Membrane', *Membrane Water Treatment*, 6 (2015), 379–92
113. Yu, Yunwu, Siyuan Liu, Yan Wang, Haibo Zhang, Xiaobai Li, Zhenhua Jiang, and others, 'Asymmetric Membranes Prepared with Trifluoromethylphenylated Poly(ether Ether Ketone) for Gas Separation', *High Performance Polymers*, 27 (2015), 10–18, <http://dx.doi.org/10.1177/0954008314537099>
114. Shrivastava, A. Tomlinson, A. Roy, J. E. Johnson, S. Jons, C. V. Funk, L. Franklin, M. Peery, Dow Chemical: Materials Science Contributions to Membrane Production, in *Materials Research for Manufacturing*, Vol. 224 (2016), 227-265. (Scopus)

Аутоцитати

115. P. Radovanovic, S. W. Thiel, and S. T. Hwang, "Formation of asymmetric polysulfone membranes by immersion precipitation. 2. The effects of casting solution and gelation bath compositions on membrane structure and skin formation," *Journal of Membrane Science*, 65 (1992) 231-246.
116. P. Radovanovic, M. Kellner, J. Matovic, R. Liska, Asymmetric Sol-Gel Proton-Conducting Membrane, in *PROCEEDINGS OF THE 8TH INTERNATIONAL CONFERENCE ON MULTI-MATERIAL MICRO MANUFACTURE (4M 2011)*, ed. by H. Kuck, H. Reinecke, and S. Dimov (Singapore: RESEARCH PUBLISHING SERVICES, 2011), 230-233, http://dx.doi.org/10.3850/978-981-07-0319-6_207

2. P. Radovanovic, S. W. Thiel, and S. T. Hwang, "Formation of asymmetric polysulfone membranes by immersion precipitation. 2. The effects of casting solution and gelation bath compositions on membrane structure and skin formation," *Journal of Membrane Science*, 65 (1992) 231-246.

Рад је цитиран у

1. K.R. Lee, M.J. Liu, J.Y. Lai, Pervaporation separation of aqueous alcohol solution through asymmetric polycarbonate membrane, *Separation Science and Technology*, 29 (1994) 119-134.
2. J.Y. Lai, M.J. Liu, K.R. Lee, Polycarbonate membrane prepared via a wet phase inversion method for oxygen enrichment from air, *Journal of Membrane Science*, 86 (1994) 103-118.
3. R.M. Boom, T. van den Boomgaard, C.A. Smolders, Mass-transfer and thermodynamics during immersion precipitation for a 2-polymer system-Evaluation with the system PES-PVP-NMP-water, *Journal of Membrane Science*, 90 (1994) 231-249.
4. R.M. Boom, T. van den Boomgaard, C.A. Smolders, Equilibrium thermodynamics of a quaternary membrane-forming system with 2 polymers. 1. Calculations, *Macromolecules*, 27 (1994) 2034-2040.

5. J.Y Lai, M.J. Liu, S.H Chen, Polycarbonate (DMF metal salt) complex membrane prepared via a wet phase separation method for oxygen enrichment from air, *European Polymer Journal*, 30 (1994) 833-843.
6. S.S. Shojaie, W.B. Krantz, A.R. Greenberg, Dense polymer film and membrane formation via dry-cast process. 1. Model development, *Journal of Membrane Science*, 94 (1994) 255-280.
7. A.J. McHugh, D.C. Miller, The dynamics of diffusion and gel growth during nonsolvent-induced phase separation of polyethersulfone, *Journal of Membrane Science*, 105 (1995) 121-136.
8. I.M. Wienk, F.H.A.O Scholtenhuis, T. van den Boomgaard, C.A. Smolders, Spinning of hollow fiber ultrafiltration membranes from a polymer blend, *Journal of Membrane Science*, 106 (1995) 233-243.
9. H.J. Kim, R.K. Tyagi, A.E. Fouda, K. Jonasson, The kinetic study for asymmetric membrane formation via phase-inversion process, *Journal of Applied Polymer Science*, 62 (1996) 621-629.
10. P. Van De Witte, H. Esselbrugge, P.J. Dijkstra, J.W.A. Van Den Berg, J. Feijen, Phase transitions during membrane formation of polylactides. I. A morphological study of membranes obtained from the system polylactide-chloroform-methanol, *Journal of Membrane Science*, 113 (1996) 223-236.
11. S.R. Kim, K.H. Lee, M.S. Jhon, The effect of ZnCl₂ on the formation of polysulfone membrane, *Journal of Membrane Science*, 119 (1996) 59-64.
12. J.Y. Lai, F.C. Lin, C.C. Wang, D.M. Wang, Effect of nonsolvent additives on the porosity and morphology of asymmetric TPX membranes, *Journal of Membrane Science*, 118 (1996) 49-61.
13. R.K. Mansfield, D. Bhattacharyya, N.G. Hartman, M. Jay, Scintillation proximity radioimmunoassay with microporous membranes, *Applied Radiation and Isotopes*, 47 (1996) 323-328.
14. S.P. Nunes, T. Inoue, Evidence for spinodal decomposition and nucleation and growth mechanisms during membrane formation, *Journal of Membrane Science*, 111 (1996) 93-103.
15. P. vandeWitte, P.J. Dijkstra, J.W.A. vandenBerg, J. Feijen, Phase separation processes in polymer solutions in relation to membrane formation, *Journal of Membrane Science*, 117 (1996) 1-31.
16. P. vandeWitte, H. Esselbrugge, P.J. Dijkstra, J.W.A. vandenBerg, J. Feijen, A morphological study of membranes obtained from the systems polylactide-dioxane-methanol, polylactide-dioxane-water, and polylactide-N-methyl pyrrolidone-water, *Journal of Polymer Science Part B-Polymer Physics*, 34 (1996) 2569-2578.
17. P. Vermeiren, W. Adriansens, R. Leysen, Zirfon(R): A new separator for Ni-H₂ batteries and alkaline fuel cells, *International Journal of Hydrogen Energy*, 21 (1996) 679-684.
18. P.H. Vermeiren, J.P. Moreels, R. Leysen, Porosity in Composite Zirfon (R) Membranes, *Journal of Porous Materials*, 3 (1996) 33-40.
19. I.M. Wienk, R.M. Boom, M.A.M. Beerlage, A.M.W. Bulte, C.A. Smolders, H. Strathmann, Recent advances in the formation of phase inversion membranes made from amorphous or semi-crystalline polymers, *Journal of Membrane Science*, 113 (1996) 361-371.
20. T.S. Chung, X.D. Hu, Effect of air-gap distance on the morphology and thermal properties of polyethersulfone hollow fibers, *Journal of Applied Polymer Science*, 66 (1997) 1067-1077.
21. H. Matsuyama, M. Teramoto, T. Uesaka, Membrane formation and structure development by dry-cast process, *Journal of Membrane Science*, 135 (1997) 271-288.
22. M.J. Han, P.M. Bummer, M. Jay, Solid scintillation proximity membranes I: Characterization of polysulfone-inorganic fluor morphologies precipitated from NMP solutions, *Journal of Membrane Science*, 140 (1998) 235-242.
23. K.R. Lee, A.A. Wang, D.M. Wang, J.Y. Lai, Pervaporation of aqueous alcohol solution through a polycarbonate (DMF metal salt) complex membrane prepared via a wet-phase inversion method, *Journal of Applied Polymer Science*, 68 (1998) 1191-1198.
24. H.C. Park, J.M. Hong, S.Y. Ha, Y.S. Kang, K.H. Ahn, Effects of humidity on the morphology of microporous membranes, *Journal of Industrial and Engineering Chemistry*, 4 (1998) 31-38.

25. D.M. Wang, F.C. Lin, J.C. Chiang, J.Y. Lai, Control of the porosity of asymmetric TPX membranes, *Journal of Membrane Science*, 141 (1998) 1-12.
26. J.S. Yan, W.W.Y. Lau, Effect of internal coagulant on morphology of polysulfone hollow fiber membranes. I, *Separation Science and Technology*, 33 (1998) 33-55.
27. T.S. Chung, Z.L. Xu, C.H.A. Huan, Halo formation in asymmetric polyetherimide and polybenzimidazole blend hollow fiber membranes, *Journal of Polymer Science Part B-Polymer Physics*, 37 (1999) 1575-1585.
28. M.T. Domenech-Carbo, E. Aura-Castro, Evaluation of the phase inversion process as an application method for synthetic polymers in conservation work, *Studies in Conservation*, 44 (1999) 19-28.
29. H.C. Park, Y.P. Kim, H.Y. Kim, Y.S. Kang, Membrane formation by water vapor induced phase inversion, *Journal of Membrane Science*, 156 (1999) 169-178.
30. R.C. Ruaan, T. Chang, D.M. Wang, Selection criteria for solvent and coagulation medium in view of macrovoid formation in the wet phase inversion process, *Journal of Polymer Science Part B-Polymer Physics*, 37 (1999) 1495-1502.
31. T.H. Young, D.J. Lin, J.J. Gau, W.Y. Chuang, L.P. Cheng, Morphology of crystalline nylon-610 membranes prepared by the immersion-precipitation process: competition between crystallization and liquid-liquid phase separation, *Polymer*, 40 (1999) 5011-5021.
32. P. Aerts, I. Genne, S. Kuypers, R. Leysen, I.F.J. Vankelecom, P.A. Jacobs, Polysulfone-aerosil composite membranes Part 2. The influence of the addition of aerosil on the skin characteristics and membrane properties, *Journal of Membrane Science*, 178 (2000) 1-11.
33. P. Aerts, E. Van Hoof, R. Leysen, I.F.J. Vankelecom, P.A. Jacobs, Polysulfone-Aerosil composite membranes - Part 1. The influence of the addition of Aerosil on the formation process and membrane morphology, *Journal of Membrane Science*, 176 (2000) 63-73.
34. C. Stropnik, V. Musil, M. Brumen, Polymeric membrane formation by wet-phase separation; turbidity and shrinkage phenomena as evidence for the elementary processes, *Polymer*, 41 (2000) 9227-9237.
35. D.M. Wang, T.T. Wu, F.C. Lin, J.Y. Hou, J.Y. Lai, A novel method for controlling the surface morphology of polymeric membranes, *Journal of Membrane Science*, 169 (2000) 39-51.
36. M.A. Artale, V. Augugliaro, E. Drioli, G. Golemme, C. Grande, V. Loddo, R. Molinari, L. Palmisano, M. Schiavello, Preparation and characterisation of membranes with entrapped TiO₂ and preliminary photocatalytic tests, *Annali Di Chimica*, 91 (2001) 127-136.
37. K.J. Baik, J.Y. Kim, J.S. Lee, S.C. Kim, H.K. Lee, Morphology of membranes formed from polysulfone/polyethersulfone/N-methyl-2-pyrrolidone/water system by immersion precipitation, *Korea Polymer Journal*, 9 (2001) 285-291.
38. I.C. Kim, K.H. Lee, T.M. Tak, Preparation and characterization of integrally skinned uncharged polyetherimide asymmetric nanofiltration membrane, *Journal of Membrane Science*, 183 (2001) 235-247.
39. P.R. Laity, P.M. Glover, A. Barry, J.N. Hay, Studies of non-solvent induced polymer coagulation by magnetic resonance imaging, *Polymer*, 42 (2001) 7701-7710.
40. G.D. Verros, N.A. Malamataris, Computer-aided estimation of diffusion coefficients in non-solvent/polymer systems, *Macromolecular Theory and Simulations*, 10 (2001) 737-749.
41. I.C. Kim, H.G. Yoon, K.H. Lee, Formation of integrally skinned asymmetric polyetherimide nanofiltration membranes by phase inversion process, *Journal of Applied Polymer Science*, 84 (2002) 1300-1307.
42. I.C. Kim, H.G. Yun, K.H. Lee, Preparation of asymmetric polyacrylonitrile membrane with small pore size by phase inversion and post-treatment process, *Journal of Membrane Science*, 199 (2002) 75-84.
43. T. Kobayashi, P.S. Reddy, M. Ohta, M. Abe, N. Fujii, Molecularly imprinted polysulfone membranes having acceptor sites for donor dibenzofuran as novel membrane adsorbents: Charge transfer interaction as recognition origin, *Chemistry of Materials*, 14 (2002) 2499-2505.

44. C. Stropnik, V. Kaiser, Polymeric membranes preparation by wet phase separation: mechanisms and elementary processes, *Desalination*, 145 (2002) 1-10.
45. H.A. Tsai, R.C. Ruaan, D.M. Wang, J.Y. Lai, Effect of temperature and span series surfactant on the structure of polysulfone membranes, *Journal of Applied Polymer Science*, 86 (2002) 166-173.
46. Y.P. Zhang, H.L. Shao, X.C. Hu, Atomic force microscopy of cellulose membranes prepared from the N-methylmorpholine-N-oxide/water solvent system, *Journal of Applied Polymer Science*, 86 (2002) 3389-3395.
47. J.H. Hao, S.C. Wang, Studies on membrane formation mechanism by the light transmission technique. I, *Journal of Applied Polymer Science*, 87 (2003) 174-181.
48. I.C. Kim, K.H. Lee, Effect of various additives on pore size of polysulfone membrane by phase-inversion process, *Journal of Applied Polymer Science*, 89 (2003) 2562-2566.
49. S.A. Altinkaya, B. Ozbas, Modeling of asymmetric membrane formation by dry-casting method, *Journal of Membrane Science*, 230 (2004) 71-89.
50. T.K. Dey, R.C. Bindal, M.S. Hanra, B.M. Misra, Dependence of performance of poly(sulfone-co-amide) membranes on compositional variation of casting solution and coagulation media - Development of reverse osmosis and nano filtration membranes, *Separation Science and Technology*, 39 (2004) 581-601.
51. V. Laninovic, Structure of flat sheet membranes obtained from the system polyethersulfone-dimethylacetamide-nonsolvent additive-water, *Polymer Science Series A*, 47 (2005) 744-749.
52. Z.S. Li, C.Z. Jiang, Investigation of the dynamics membrane formation by of poly(ether sulfone) membrane formation by precipitation immersion, *Journal of Polymer Science Part B-Polymer Physics*, 43 (2005) 498-510.
53. V. Laninovic, Relationship between type of nonsolvent additive and properties of polyethersulfone membranes, *Desalination*, 186 (2005) 39-46.
54. C. Stropnik, V. Kaiser, V. Musil, M. Brumen, Wet-phase-separation membranes from the polysulfone/N,N-dimethylacetamide/water ternary system: The formation and elements of their structure and properties, *Journal of Applied Polymer Science*, 96 (2005) 1667-1674.
55. G.D. Verros, N.A. Malamataris, Multi-component diffusion in polymer solutions, *Polymer*, 46 (2005) 12626-12636.
56. G.D. Verros, N.A. Malamataris, Estimation of diffusion coefficients in polymer solutions, in: G. Maroulis, T. Simos (Eds.) *In the Frontiers of Computational Science*, 2005, pp. 360-383.
57. V. Laninovic, Structure of flat sheet membranes obtained from the system polyethersulfone-dimethylacetamide-nonsolvent additive-water, *Polymer Science - Series A*, 47, (2005) 744-749.
58. J.C. Jansen, M.G. Buonomenna, A. Figoli, E. Drioli, Asymmetric membranes of modified poly(ether ether ketone) with an ultra-thin skin for gas and vapour separations, *Journal of Membrane Science*, 272 (2006) 188-197.
59. M.T. Khorasani, S. Shorgashti, Fabrication of microporous thermoplastic polyurethane for use as small-diameter vascular graft material. I. Phase-inversion method, *Journal of Biomedical Materials Research Part B-Applied Biomaterials*, 76B (2006) 41-48.
60. M. Macchione, J.C. Jansen, E. Drioli, The dry phase inversion technique as a tool to produce highly efficient asymmetric gas separation membranes of modified PEEK. Influence of temperature and air circulation, *Desalination*, 192 (2006) 132-141.
61. E. Reverchon, E.S. Rappo, S. Cardea, Flexible supercritical CO₂-assisted process for poly(methyl methacrylate) structure formation, *Polymer Engineering and Science*, 46 (2006) 188-197.
62. B.B. Tang, T.W. Xu, W.H. Yang, A novel positively charged asymmetry membranes from poly (2,6-dimethyl-1,4-phenylene oxide) by benzyl bromination and in situ amination - Part II: Effect of charged group species on membrane performance and morphologies, *Journal of Membrane Science*, 268 (2006) 123-131.
63. G.J. Wang, L.Y. Chu, M.Y. Zhou, W.M. Chen, Effects of preparation conditions on the microstructure of porous microcapsule membranes with straight open pores, *Journal of Membrane Science*, 284 (2006) 301-312.

64. L.J. Wang, Z.S. Li, J.Z. Ren, S.G. Li, C.Z. Jiang, Preliminary studies on the gelation time of poly(ether sulfones) membrane-forming system with an elongation method, *Journal of Membrane Science*, 275 (2006) 46-51.
65. Bhattacharya, A., P. Ray, H. Brahmabhatt, K.N. Vyas, S.V. Joshi, C.V. Devmurari, and others, Pesticides Removal Performance by Low-Pressure Reverse Osmosis Membranes, *Journal of Applied Polymer Science*, 102 (2006), 3575-79.
66. M.G. Buonomenna, P. Macchi, M. Davoli, E. Drioli, Poly(vinylidene fluoride) membranes by phase inversion: the role the casting and coagulation conditions play in their morphology, crystalline structure and properties, *European Polymer Journal*, 43 (2007) 1557-1572.
67. V. Kaiser, C. Stropnik, V. Musil, M. Brumen, Morphology of solidified polysulfone structures obtained by wet phase separation, *European Polymer Journal*, 43 (2007) 2515-2524.
68. H.X. Sun, S.N. Liu, B.S. Ge, L. Xing, H.L. Chen, Cellulose nitrate membrane formation via phase separation induced by penetration of nonsolvent from vapor phase, *Journal of Membrane Science*, 295 (2007) 2-10.
69. S. Bonyadi, T.S. Chung, Flux enhancement in membrane distillation by fabrication of dual layer hydrophilic-hydrophobic hollow fiber membranes, *Journal of Membrane Science*, 306 (2007) 134-146.
70. C.J. Chang, M.S. Wu, P.C. Kao, Morphology and properties of low dielectric constant polymeric films with electrophoresis induced gradient close-pore distribution, *Microporous and Mesoporous Materials*, 111 (2008) 267-275.
71. Y.S. Gupta, S. Javiya, P. Paul, S. Basu, K. Singh, A. Bhattacharya, Natural colors through modified synthetic membranes : Separation performances of floral pigments from the extract of rose petals, *Journal of the Indian Chemical Society*, 85 (2008) 1134-1139.
72. K.M. Yogesh, Popat, B. Ganguly, H. Brahmabhatt, A. Bhattacharya, Studies on the separation performances of chlorophenol compounds from water by thin film composite membranes, *Macromolecular Research*, 16 (2008) 590-595.
73. Y. Kumar, K.M. Popat, H. Brahmabhatt, B. Ganguly, A. Bhattacharya, Pentachlorophenol removal from water using surfactant-enhanced filtration through low-pressure thin film composite membranes, *Journal of Hazardous Materials*, 154 (2008) 426-431.
74. Bhattacharya, D.C. Mukherjee, J.M. Gohil, Y. Kumar, S. Kundu, Preparation, characterization and performance of conducting polypyrrole composites based on polysulfone, *Desalination*, 225 (2008) 366-372.
75. Z.Y. Li, H.H. Tang, X.W. Liu, Y.J. Xia, J.Z. Jiang, Preparation and characterization of microporous poly(vinyl butyral) membranes by supercritical CO₂-induced phase separation, *Journal of Membrane Science*, 312 (2008) 115-124.
76. P.Y. Qin, B.B. Han, C.X. Chen, J.D. Li, B.H. Sun, Performance control of asymmetric poly(phthalazinone ether sulfone ketone) ultrafiltration membrane using gelation, *Korean Journal of Chemical Engineering*, 25 (2008) 1407-1415.
77. J.S. Taurozzi, H. Arul, V.Z. Bosak, A.F. Burban, T.C. Voice, M.L. Bruening, V.V. Tarabara, Effect of filler incorporation route on the properties of polysulfone-silver nanocomposite membranes of different porosities, *Journal of Membrane Science*, 325 (2008) 58-68.
78. P.H. Vermeiren, R. Leysen, H. Beckers, J.P. Moreels, A. Claes, The influence of manufacturing parameters on the properties of macroporous Zirfon (R) separators, *Journal of Porous Materials*, 15 (2008) 259-264.
79. V. Laninovic, Preparation of composite membranes by deposition of polyethersulfone onto the glass non-woven sheet, *Journal of Polymer Engineering* 28 (2008) 405 - 419.
80. M. Amirilargani, T. Mohammadi, Preparation and characterization of asymmetric polyethersulfone (PES) membranes, *Polymers for Advanced Technologies*, 20 (2009) 993-998.
81. O. Biganska, P. Navard, Morphology of cellulose objects regenerated from cellulose-N-methylmorpholine N-oxide-water solutions, *Cellulose*, 16 (2009) 179-188.

82. D.Y. Hou, J. Wang, D. Qu, Z.K. Luan, C.W. Zhao, X.J. Ren, Preparation of hydrophobic PVDF hollow fiber membranes for desalination through membrane distillation, *Water Science and Technology*, 59 (2009) 1219-1226.
83. P. Vermeiren, J.P. Moreels, A. Claes, H. Beckers, Electrode diaphragm electrode assembly for alkaline water electrolyzers, *International Journal of Hydrogen Energy*, 34 (2009) 9305-9315.
84. Yan, S.H. Zhang, C. Liu, D.L. Yang, F.J. Yang, X.G. Jian, Preparation, Morphologies, and Properties of Positively Charged Quaternized Poly(phthalazinone ether sulfone ketone) Nanofiltration Membranes, *Journal of Applied Polymer Science*, 113 (2009) 1389-1397.
85. Y.J. Zhang, Q. Wei, C.B. Yi, C.Y. Hu, W.F. Zhao, C.S. Zhao, Preparation of Polyethersulfone-Alginate Microcapsules for Controlled Release, *Journal of Applied Polymer Science*, 111 (2009) 651-657.
86. M. Amirilargani, E. Saljoughi, T. Mohammadi, M.R. Moghbeli, Effects of Coagulation Bath Temperature and Polyvinylpyrrolidone Content on Flat Sheet Asymmetric Polyethersulfone Membranes, *Polymer Engineering and Science*, 50 (2010) 885-893.
87. Bouyer, W. Werapun, C. Pochat-Bohatier, A. Deratani, Morphological properties of membranes fabricated by VIPS process using PEI/NMP/water system: SEM analysis and mass transfer modelling, *Journal of Membrane Science*, 349 (2010) 97-112.
88. H. Lee, W.B. Krantz, S.T. Hwang, A model for wet-casting polymeric membranes incorporating nonequilibrium interfacial dynamics, vitrification and convection, *Journal of Membrane Science*, 354 (2010) 74-85.
89. Rahimpour, S.S. Madaeni, Y. Mansourpanah, Nano-porous polyethersulfone (PES) membranes modified by acrylic acid (AA) and 2-hydroxyethylmethacrylate (HEMA) as additives in the gelation media, *Journal of Membrane Science*, 364 (2010) 380-388.
90. S. Zhao, Z. Wang, X. Wei, B.R. Zhao, J.X. Wang, S.B. Yang, S.C. Wang, Performance improvement of polysulfone ultrafiltration membrane using PANIEB as both pore forming agent and hydrophilic modifier, *Journal of Membrane Science*, 385 (2011) 251-262.
91. M. Amirilargani, T. Mohammadi, Synthesis and characterization of asymmetric polyethersulfone membranes: effects of concentration and polarity of nonsolvent additives on morphology and performance of the membranes, *Polymers for Advanced Technologies*, 22 (2011) 962-972.
92. G.R. Guillen, Y.J. Pan, M.H. Li, E.M.V. Hoek, Preparation and Characterization of Membranes Formed by Nonsolvent Induced Phase Separation: A Review, *Industrial & Engineering Chemistry Research*, 50 (2011) 3798-3817.
93. Y.S. Luo, K.C. Cheng, N.D. Huang, W.P. Chiang, S.F. Li, Preparation of Porous Crosslinked Polymers with Different Surface Morphologies via Chemically Induced Phase Separation, *Journal of Polymer Science Part B: Polymer Physics*, 49 (2011) 1022-1030.
94. S.S. Madaeni, P. Moradi, Preparation and Characterization of Asymmetric Polysulfone Membrane for Separation of Oxygen and Nitrogen Gases, *Journal of Applied Polymer Science*, 121 (2011) 2157-2167.
95. H. Savoji, D. Rana, T. Matsuura, M. Soltanieh, S. Tabe, Influence of novel surface modifying macromolecules and coagulation media on the gas permeation properties of different polymeric gas separation membranes, *Journal of Applied Polymer Science*, 124 (2012) 2300-2310.
96. Z.G. Zhao, J.F. Zheng, M.J. Wang, H.Y. Zhang, C.C. Han, High performance ultrafiltration membrane based on modified chitosan coating and electrospun nanofibrous PVDF scaffolds, *Journal of Membrane Science*, 394 (2012) 209-217.
97. S. Gupta, P. Ingole, K. Singh, A. Bhattacharya, Comparative study of the hydrolysis of different oils by lipase-immobilized membranes, *Journal of Applied Polymer Science*, 124 (2012) E17-E26.
98. P.C. Liu, J.H. Ma, S.G. Yang, J.H. Gong, J. Xu, Research progress on the preparation of ceramic hollow fiber membranes by nonsolvent induced phase separation, *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, 27 (2012) 673-679.

99. X. Liu, H.-G. Jung, S.-O. Kim, H.-S. Choi, S. Lee, J.H. Moon, J.K. Lee, Silicon/copper dome-patterned electrodes for high-performance hybrid supercapacitors, *Scientific Reports*, 3 (2013) AN 3183.
100. M. Sadrzadeh, S. Bhattacharjee, Rational design of phase inversion membranes by tailoring thermodynamics and kinetics of casting solution using polymer additives, *Journal of Membrane Science*, 441 (2013) 31-44.
101. H. Zhang, J. Zheng, Z. Zhao, C.C. Han, Role of wettability in interfacial polymerization based on PVDF electrospun nanofibrous scaffolds, *Journal of Membrane Science*, 442 (2013) 124-130.
102. P. Anadão, L. Sato, R. R. Montes, H. S. De Santis, Polysulphone/montmorillonite nanocomposite membranes: Effect of clay addition and polysulphone molecular weight on the membrane properties, *Journal of Membrane Science*, 455 (2014) 187-199.
103. Elhaj, K. Irgum, Monolithic space-filling porous materials from engineering plastics by thermally induced phase separation, *ACS Appl. Mater. Interfaces*, 6 (2014) 15653–15666.
104. L. Zheng, Z. Ma, Z. Li, Q. Yan, Rapid nanostructuring of polymer colloid surfaces by nonsolvent induced phase separation, *J. Colloid Interface Sci.*, 441 (2015) 39-45.
105. Burnat, M. Schlupp, A. Wichser, B. Lothenbach, M. Gorbar, A. Züttel, U. F. Vogt, Composite membranes for alkaline electrolysis based on polysulfone and mineral fillers, *J. Power Sources*, 291 (2015) 163-172.
106. L. Keshavarz, M.A. Khansary, S. Shirazian, Phase diagram of ternary polymeric solutions containing nonsolvent/solvent/polymer: Theoretical calculation and experimental validation, *Polymer*, 73 (2015) 1-8.
107. I. Byrd, H. Chen, T. Webber, J. Li, J. Wu, Self-assembled asymmetric membrane containing micron-size germanium for high capacity lithium ion batteries, *RSC Advances*, 5 (2015) 92878-92884.
108. J. Wu, H. Chen, C. Padgett, Silicone asymmetric membranes for efficient lithium storage: A scalable method, *Energy Technology*, 4, 4 (2016) 502-509, DOI:10.1002/ente.201500315.
109. Shrivastava, A. Tomlinson, A. Roy, J. E. Johnson, S. Jons, C. V. Funk, L. Franklin, M. Peery, Dow Chemical: Materials Science Contributions to Membrane Production, in *Materials Research for Manufacturing*, Vol. 224 (2016), 227-265. (Scopus)
110. Jalali, A., A. Shokravi, V. Vatanpour, and M. Hajibeygi, 'Preparation and Characterization of Novel Microporous Ultrafiltration PES Membranes Using Synthesized Hydrophilic Polysulfide-Amide Copolymer as an Additive in the Casting Solution', *Microporous and Mesoporous Materials*, 228 (2016), 1–13. (Scopus)

Аутоцитати

111. Radovanovic, P., S.W. Thiel, and S.-T. Hwang, Formation of Asymmetric Polysulfone Membranes by Immersion Precipitation. Part I. Modelling Mass Transport during Gelation, *Journal of Membrane Science*, 65 (1992), 213–29.
112. Radovanovic, P., M. Kellner, J. Matovic, and R. Liska, 'Asymmetric Sol-Gel Proton-Conducting Membrane', in *PROCEEDINGS OF THE 8TH INTERNATIONAL CONFERENCE ON MULTI-MATERIAL MICRO MANUFACTURE (4M 2011)*, ed. by H. Kuck, H. Reinecke, and S. Dimov (Singapore: RESEARCH PUBLISHING SERVICES, 2011), http://dx.doi.org/10.3850/978-981-07-0319-6_207.
113. Radovanovic, P., M. Kellner, J. Matovic, R. Liska, and T. Koch, 'Asymmetric Membranes with Interpenetrating Proton-Conducting Morphology Made by a Combination of Immersion Precipitation and Photopolymerization', *Journal of Membrane Science*, 401 (2012), 254–61, <http://dx.doi.org/10.1016/j.memsci.2012.02.012>

3. P. Radovanovic, S. W. Thiel, and S. T. Hwang, "Transport of ethanol-water dimmers in pervaporation through a silicone-rubber membrane," *Journal of Membrane Science*, 48 (1990) 55-65.

Рад је цитиран у

1. M. Wessling, U. Werner, and ST Hwang, Pervaporation of aromatic C-8-isomers, *Journal of Membrane Science*, 57 (1991) 257-270.
2. B. Raghunath, ST Hwang, Effect of boundary layer mass transfer resistance in the pervaporation of dilute organics, *Journal of Membrane Science*, 65 (1992) 147-161.
3. P.J Hickey, F.P Juricic, C.S. Slater, The effect of process parameters on the pervaporation of alcohols through organophilic membranes, *Separation Science and Technology*, 27 (1992) 843-861.
4. H. Uramoto, N. Kawabata, Separation of alcohol-water mixtures by pervaporation through a reinforced polyvinylpyridine membrane, *Journal of Applied Polymer Science*, 50 (1993) 115-121.
5. E. Favre, P. Schaetzel, Q.T. Nguyen, R. Clement, J. Neel, Sorption, diffusion and vapor permeation of various penetrants through dense poly(dimethylsiloxane) membranes: a transport analysis, *Journal of Membrane Science*, 92 (1994) 169-184.
6. E. Favre, R. Clement, Q.T. Nguyen, P. Schaetzel, J. Neel, Sorption of organic solvents into dense silicone membranes. 2. Development of a new approach based on a clustering hypothesis for associated solvents, *Journal of the Chemical Society-Faraday Transactions*, 89 (1993) 4347-4353.
7. H.O.E. Karlsson, G. Trägårdh, Pervaporation of dilute organic-waters mixtures. A literature review on modelling studies and applications to aroma compound recovery, *Journal of the Membrane Science*, 76 (1993) 121-146.
8. V. Buraphacheep, D.E. Wurster, D.E. Wurster, The use of Fourier-transform infrared (FT-IR) spectroscopy to determine the diffusion coefficients of alcohols in polydimethylsiloxane, *Pharmaceutical Research*, 11 (1994) 561-565.
9. B.K. Dutta, W.C. Ji, S.K. Sikdar, Pervaporation: Principles and applications, *Separation and Purification Methods*, 25 (1996) 131-224.
10. P. Uchytel, Q.T. Nguyen, R. Clement, J.M. Grosse, A. Essamri, Diffusion of acetic acid and water through poly(vinylalcohol) membranes. Coupling effects, *Polymer*, 37 (1996) 93-100.
11. M. Soltanieh, T. Zaare-Asl, A modified solution-diffusion model for separation of ethanol-water azeotropic mixtures in pervaporation, *Chemical Engineering Communications*, 152-153 (1996) 405-412.
12. Kosuge, H., H. Kudo, and K. Asano, Mass Transfer in the Permeate Side of Gas Sweeping Pervaporation for Aqueous Ethanol Solution with a Silicone Rubber Membrane, *Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)*, 39 (1996), 342-49 (Scopus)
13. Z.J. Tan, G.J. Vancso, Molecular probing of polymeric microstructure and nonrandom partitioning of solvents absorbed in polymers by inverse gas chromatography, *Macromolecules*, 30 (1997) 4665-4673.
14. H.I. Shaban, A qualitative investigation on the importance of boundary layer in pervaporation separation of an aqueous organic reaction, *Journal of Applied Polymer Science*, 70 (1998) 2361-2369.
15. C.B. Almquist, S.T. Hwang, The permeation of organophosphorus compounds in silicone rubber membranes, *Journal of Membrane Science*, 153 (1999) 57-69.
16. K. Biswas, S. Datta, S. Chaudhuri, K. Kargupta, S.K. Sanyal, Dehydration of glycerol-water mixtures using pervaporation: Influence of process parameters, *Separation Science and Technology*, 35 (2000) 1391-1408.
17. R.Y.M. Huang, P. Shao, X. Feng, C.M. Burns, Pervaporation separation of water/isopropanol mixture using sulfonated poly(ether ether ketone) (SPEEK) membranes: transport mechanism and separation performance, *Journal of Membrane Science*, 192 (2001) 115-127.
18. F. Lipnizki, G. Tragardh, Modelling of pervaporation: Models to analyze and predict the mass transport in pervaporation, *Separation and Purification Methods*, 30 (2001) 49-125.
19. D. Van Baelen, A. Reyniers, B. Van der Bruggen, C. Vandecasteele, J. Degreve, Pervaporation of binary and ternary mixtures of water with methanol and/or ethanol, *Separation Science and Technology*, 39 (2004) 563-580.

20. L. Sun, G.L. Baker, M.L. Bruening, Polymer brush membranes for pervaporation of organic solvents from water, *Macromolecules*, 38 (2005) 2307-2314.
21. D. Van Baelen, B. Van der Bruggen, K. Van den Dungen, J. Degreve, C. Vandecasteele, Pervaporation of water-alcohol mixtures and acetic acid-water mixtures, *Chemical Engineering Science*, 60 (2005) 1583-1590.
22. Aroujalian, K. Belkacemi, S.J. Davids, G. Turcotte, Y. Pouliot, Effect of residual sugars in fermentation broth on pervaporation flux and selectivity for ethanol, *Desalination*, 193 (2006) 103-108.
23. H. Nasiri, A. Aroujalian, A novel model based on cluster formation for pervaporation separation of polar components from aqueous solutions, *Separation and Purification Technology*, 72 (2010) 13-21.
24. Ling-Yun Ji, Bao-Li Shi, Qing-Wen Wang, Pervaporation Separation of Ethanol via Adsorbent-Filled Silicon Rubber Membranes, *Membrane Water Treatment*, 5 (2014), 265–79
25. Y. Shinkawa, Y. Hayashi, S. Sato, K. Nagai, Permeability of ethanol solution through poly (lactic acid) film, *Journal of Applied Polymer Science*, 132 (2015) DOI: 10.1002/app.42031.
26. Toikka, P. Naumkin, A. Penkova, Approximation and analysis of pervaporation of binary mixtures using nonequilibrium thermodynamics approach, *Chemical Engineering Research and Design*, 104 (2015) 669-680.

4. J. Matovic, N. Adamovic, F. Radovanovic, Z. Jaksic, and U. Schmid, "Field effect transistor based on ions as charge carriers," *Sensors & Actuators: B. Chemical*, 170 (2012) 137-142.

Рад је цитиран у

1. S. Xue, L.-H. Yeh, Y. Ma, S. Qian, Tunable streaming current in a pH-regulated nanochannel by a field effect transistor, *Journal of Physical Chemistry C* 118 (2014) 6090-6099.
2. M. Bäcker, F. Kramer, C. Huck, A. Poghossian, A. Bratov, N. Abramova, M. J. Schöning, Planar and 3D interdigitated electrodes for biosensing applications: The impact of a dielectric barrier on the sensor properties, *Phys. Status Solidi A* 211 (2014) 1357–1363.
3. Y. Ma, S. Xue, S.-C. Hsu, L.-H. Yeh, S. Qian, H. Tan, Programmable ionic conductance in a pH-regulated gated nanochannel, *Phys. Chem. Chem. Phys.*, 16 (2014) 20138-20146.
4. G. Haywood, A. Saha-Shah, L. A. Baker, S. C. Jacobson, Fundamental Studies of Nanofluidics: Nanopores, Nanochannels, and Nanopipets, *Anal. Chem.*, 87 (2015) 172–187.
5. N. Liu, L.Q. Zhu, H. Xiao, C.J. Wan, Y.H. Liu, J.Y. Chao, Transient Characteristics for Proton Gating in Laterally Coupled Indium–Zinc-Oxide Transistors, *ACS Appl. Mater. Interfaces*, 7 (2015) 6205–6210.
6. L.H. Yeh, Y. Ma, S. Xue, S. Qian, Gate manipulation of ionic conductance in a nanochannel with overlapped electric double layers, *Sensors & Actuators: B*, 215 (2015) 266–271.
7. Zhou, L. Mei, Y.-S. Su, L.-H. Yeh, X. Zhang, S. Qian, Gated Ion Transport in a Soft Nanochannel with Biomimetic Polyelectrolyte Brush Layers, *Sensors & Actuators: B*, (2015) doi:10.1016/j.snb.2016.01.075.

5. P. Radovanovic, M. Kellner, J. Matovic, R. Liska, T. Koch, "Asymmetric membranes with interpenetrating proton-conducting morphology made by a combination of immersion precipitation and photopolymerization," *Journal of Membrane Science*, 401-402 (2012) 254-261.

Рад је цитиран у

1. P. Bahavan Palani, R. Kannan, S. Rajashabala, S. Rajendran, G. Velraj, Effect of nano-composite on polyvinyl alcohol-based proton conducting membrane for direct methanol fuel cell applications, *Ionics*, 21 (2015) 507-513.

- Y. Xie, S-S. Li, X. Jiang, T. Xiang, R. Wang, C-S. Zhao, Zwitterionic glycosyl modified polyethersulfone membranes with enhanced anti-fouling property and blood compatibility, *Journal of Colloid and Interface Science*, 443 (2015) 36-44.

Аутоцитати

- Kellner, Michael, Philip Radovanovic, Jovan Matovic, and Robert Liska, Novel Cross-Linkers for Asymmetric Poly-AMPS-Based Proton Exchange Membranes for Fuel Cells, *Designed Monomers and Polymers*, 17 (2014), 372–79, <http://dx.doi.org/10.1080/15685551.2013.840513>
- Radovanovic, F., A. Nastasovic, T. Tomkovic, D. Vasiljevic-Radovic, A. Nesic, S. Velickovic, and others, Novel Membrane Adsorbers Incorporating Functionalized Polyglycidyl Methacrylate, *Reactive & Functional Polymers*, 77 (2014), 1–10, <http://dx.doi.org/10.1016/j.reactfunctpolym.2014.01.007>
- Tomkovic, Tanja, Filip Radovanovic, Aleksandra Nastasovic, Dana Vasiljevic-Radovic, Jelena Markovic, Branimir Grgur, and others, Solid Phase Extraction Membranes with Submicron Multifunctional Adsorbent Particles, *European Polymer Journal*, 63 (2015), 90–100, <http://dx.doi.org/10.1016/j.eurpolymj.2014.12.015>
- Stajčić, Aleksandar, Aleksandra Nastasović, Jasna Stajić-Trošić, Jelena Marković, Antonije Onjia, Filip Radovanović, Novel Membrane-Supported Hydrogel for Removal of Heavy Metals, *Journal of Environmental Chemical Engineering*, 3 (2015), 453–61. (Scopus)
- T. Tomković, F. Radovanović, B. Grgur, A. Nastasović, D. Vasiljević-Radović, and A. Onjia, “Novel negatively-charged membrane adsorbers made using combination of photopolymerization and immersion precipitation,” *Journal of the Serbian Chemical Society*, 81 (2016) 419-431, doi: 10.2298/JSC150805083T

6. F. Radovanović, A. Nastasović, T. Tomković, D. Vasiljević-Radović, A. Nešić, S. Veličković, A. Onjia, “Novel membrane adsorbers incorporating functionalized polyglycidyl methacrylate,” *Reactive and Functional Polymers*, 77 (2014) 1-10.

Рад је цитиран у

- S. Mehlhase, C. G. Schäfer, J. Morsbach, L. Schmidt, R. Klein, H. Frey, M. Gallei, Vinylphenylglycidyl ether-based colloidal architectures: high-functionality crosslinking reagents, hybrid raspberry-type particles and smart hydrophobic surfaces, *RSC Advances*, 4 (2014) 41348-41352.
- Y. Xie, S-S. Li, X. Jiang, T. Xiang, R. Wang, C-S. Zhao, Zwitterionic glycosyl modified polyethersulfone membranes with enhanced anti-fouling property and blood compatibility, *Journal of Colloid and Interface Science*, 443 (2015) 36-44.
- X. Jiang, T. Xiang, Y. Xie, R. Wang, W. Zhao, S. Sun, C-S. Zhao, Functional polyethersulfone particles for the removal of bilirubin, *Journal of Materials Science: Materials in Medicine*, 27 (2016) 1-12.

Аутоцитати

- Tomkovic, Tanja, Filip Radovanovic, Aleksandra Nastasovic, Dana Vasiljevic-Radovic, Jelena Markovic, Branimir Grgur, and others, ‘Solid Phase Extraction Membranes with Submicron Multifunctional Adsorbent Particles’, *European Polymer Journal*, 63 (2015), 90–100.
- Stajčić, Aleksandar, Aleksandra Nastasović, Jasna Stajić-Trošić, Jelena Marković, Antonije Onjia, Filip Radovanović, Novel Membrane-Supported Hydrogel for Removal of Heavy Metals, *Journal of Environmental Chemical Engineering*, 3 (2015), 453–61. (Scopus)

6. T. Tomković, F. Radovanović, B. Grgur, A. Nastasović, D. Vasiljević-Radović, and A. Onjia, "Novel negatively-charged membrane adsorbers made using combination of photopolymerization and immersion precipitation," *Journal of the Serbian Chemical Society*, 81 (2016) 419-431, doi: 10.2298/JSC150805083T

7. A. Stajčić, A. Nastasović, J. Stajić-Trošić, J. Marković, A. Onjia, F. Radovanović, "Novel membrane-supported hydrogel for removal of heavy metals," *Journal of Environmental Chemical Engineering*, 3 (2015) 453-461. (Scopus)

Рад је цитиран у

1. Dos Santos, Jefferson C., Mauro M. Tashima, Marcia R. de Moura, Fauze A. Aouada, OBTAINMENT OF HYBRID COMPOSITES BASED ON HYDROGEL AND PORTLAND CEMENT, *Quimica Nova*, 39 (2016), 124–29.
2. Bertagnolli, A. Grishin, T. Vincent, E. Guibal, Recovering heavy metal ions from complex solutions using polyethylenimine derivatives encapsulated in alginate matrix, *Ind. Eng. Chem. Res.*, 55 (2016), 2461–2470.
3. R. M. Ali, H. A. Hamad, M. M. Hussein, G. F. Malash Potential of using green adsorbent of heavy metal removal from aqueous solutions: Adsorption kinetics, isotherm, thermodynamic, mechanism and economic analysis, *Ecological Engineering*, 91 (2016) 317–332.

8. M. Mitrovic, F. Radovanovic, and L. Knezic, "Dual membrane separation I: Stage-wise dual separation," *Chemical Engineering Journal*, 28 (1984) 53-57.

Рад је цитиран у

1. M. Mitrović, Transport phenomena in multiphase systems, *Journal of the Serbian Chemical Society*, 61 (1996) 233-251. (Scopus)
2. G.T. Vladislavljević, M.B. Rajković, Comparison of binary gas mixture separations in single-membrane and two-membrane cascades, *Hungarian Journal of Industrial Chemistry*, 26 (1998) 113-119.
3. T.M. Trtić-Petrović, G.T. Vladislavljević, S.C. Archimandritis, A. Varvarigou, J.J. Čomor, Influence of module arrangements on solvent extraction of thallium(III) in hollow fiber contactors, *Journal of Separation Science*, 24 (2001) 519-525.

9. M. Mitrovic and F. Radovanovic, "Dual membrane separation II: Concentration polarization reduction in dual cells," *Chemical Engineering Journal*, 28 (1984) 59-63.

Рад је цитиран у

1. G.T. Vladislavljević, M.B. Rajković, Comparison of binary gas mixture separations in single-membrane and two-membrane cascades, *Hungarian Journal of Industrial Chemistry*, 26 (1998) 113-119.
2. J.M. Miranda, J.B.L.M. Campos, Numerical study of a hybrid membrane cell with semi and fully permeable membrane sub-sections, *Chemical Engineering Science*, 62 (2007) 1215-1229.

10. M. Kellner, P. Radovanovic, J. Matovic, and R. Liska, "Novel cross-linkers for asymmetric poly-AMPS-based proton exchange membranes for fuel cells," *Designed Monomers and Polymers*, 17 (2014) 372-379.

Рад је цитиран у

1. M. Oroujzadeh, S. Mehdipour-Ataei, M. Esfandeh, New Proton Exchange Membranes Based on Sulfonated Poly(Arylene Ether Sulfone) Copolymers: Effect of Chain Structure on Methanol Crossover, *International Journal of Polymeric Materials* 64 (2015) 279-286.
2. Jing Li, W. Cai, Y. Zhang, G. Xu, H. Cheng, 3D-Branched Rigid–Flexible Hybrid Sulfonated Polyamide for Proton Exchange Membranes (PEMs) in Fuel Cell Applications, *Energy Technology*, 3 (2015) 155-161.

11. [P. Radovanovic](#) and S. W. Thiel, "Partition coefficients at infinite dilution from Flory-Huggins theory," *Journal of Liquid Chromatography*, 13 (1990) 1571-1583.

Рад је цитиран у

1. G. Tse, D. Blankschtein, A. Shefer, S. Shefer, Thermodynamic prediction of active ingredient loading in polymeric microparticles, *Journal of Controlled Release*, 60 (1999) 77-100.

12. Tomkovic, Tanja, [Filip Radovanovic](#), Aleksandra Nastasovic, Dana Vasiljevic-Radovic, Jelena Markovic, Branimir Grgur, and others, Solid Phase Extraction Membranes with Submicron Multifunctional Adsorbent Particles, *European Polymer Journal*, 63 (2015), 90–100.

Рад је цитиран у

1. T. Tomković, F. Radovanović, B. Grgur, A. Nastasović, D. Vasiljević-Radović, and A. Onjia, "Novel negatively-charged membrane adsorbents made using combination of photopolymerization and immersion precipitation," *Journal of the Serbian Chemical Society*, 81 (2016) 419-431, doi: 10.2298/JSC150805083T

Citirani patenti

Prema podacima iz baza podataka United States Patent and Trademark Office, Espacenet i WIPO (zaključno sa 4. junom 2016. godine) citirano je 10 патената. Ukupan broj citata je 313.

M91/1 Weimer, W. K., Keenan, G. E., Kinney, R. J., Mrozinski, J. S., and **Radovanovic, P. D.**, US 5690949, "Microporous membrane material for preventing transmission of viral pathogens," 1997.

Citiran je u 36 патената.

1. Patent Number(s): US20120109090 A1

Title: Absorbent Article with Barrier Component

Inventor Name(s): Nicole Anja Reichardt, Christian Springob, Brian Udengaard, Lone Kondrup Hummelgaard

Patent Assignee(s): The Procter & Gamble Company

2. Patent Number(s): US20110209812 A1; CN102248741A, DE102011000945A1

Title: Method of manufacturing composite article

Inventor Name(s): Vishal Bansal, Marni Loriel Rutkofsky

Patent Assignee(s): General Electric Company

3. Patent Number(s): WO2008045881-A1; US2008131676-A1; EP2079570-A1; CA2665646-A1; MX2009003820-A1

Title: Microporous Breathable Film with Internal Barrier Layer or Layers

Inventor Name(s): BECKE G S; CARMODY D J; DOBOSY M J

Patent Assignee(s): BECKE G S (BECK-Individual); CARMODY D J (CARM-Individual); DOBOSY M J (DOBO-Individual); PLIANT CORP (PLIA-Non-standard)

4. Patent Number(s): US20070272606 A1, US20150202577

Title: Multi-functional coatings on microporous substrates

Inventor: Donald T. Freese, Manish K. Nandi

Patent Assignee(s): Freese Donald T, Nandi Manish K

5. Patent Number(s): US20070186465 A1; CA2477027A1, CN1646004A, EP1476362A2, EP1476362A4, US20030159342, WO2003072441A2, WO2003072441A3

Title: Controlled ripening protective cover for agricultural products

Inventor: Fermin Ruiz, Fernando Espinosa, Sergio de Leon, Nick Carter

Patent Assignee(s): Fermin Ruiz, Fernando Espinosa, De Leon Sergio D, Nick Carter

6. Patent Number(s): US20070135786 A1, EP1110523A1, US20020189992, WO2001045621A1

Title: Liquid handling systems comprising three-dimensionally shaped membranes

Inventor: Mattias Schmidt, Bruno Ehrnsperger

Patent Assignee(s): The Procter & Gamble Company

7. Patent Number(s): US20060148915 A1, CN101094884A, EP1831291A1, WO2006073594A1, WO2006073594A8

Title: Microporous materials and methods of making

Inventor: Robert Floyd, Randall Swenson, James Mrozinski

Patent Assignee(s): Floyd Robert M, Swenson Randall P, Mrozinski James S

8. Patent Number(s): US20060147698 A1, CA2489362A1, EP1519982A1, WO2003106543A1

Title: Garments preventing transmission of human body odor

Inventor: Todd Carroll, John Langley

Patent Assignee(s): Kappler, Inc.

9. Patent Number(s): US20040116022 A1, WO2004030903A2, WO2004030903A3

Title: Durable waterproof composite sheet material

Inventor John Langley, Todd Carroll, Barry Hinkle, Charles Vencill

Patent Assignee(s): Kappler, Inc.

10. Patent Number(s): US20100159776 A1; US8283029

Title: Multilayer microporous films and composites for barrier protective materials, and methods

Inventor: Gregory K. Jones, Larry Hughey McAmish, Pai-Chuan Wu, Kenneth L. Lilly, Christopher Aaron Shelley, Mark Andrew Wendorf

Patent Assignee(s): Clopay Plastic Products Company

11. Patent Number(s): US8183426 B2; US20090118562, WO2009123660A2, WO2009123660A3, WO2009123660A8

Title: Decontaminating sheet material containing reactive nanocrystalline particles and products constructed therefrom

Inventor: Jason R. Cole, Philip Mann, Shyamala Rajagopalan, Olga Koper

Patent Assignee(s): Nanoscale Corporation, Kappler, Inc.

12. Patent Number(s): US8079480 B2; CA2446881A1, CA2446881C, CN1527859A, DE10292065D2, DE50210461D1, EP1392765A1, EP1392765B1, EP1884534A2, EP1884534A3, US9126147, US20040191522, US2012088095, US20150376360, WO2002092673A1

Title: Modification of drawn film

Inventor: Thomas Haring, Rima Haring

13. Patent Number(s): DE112010002882 T5; US9174420, US20110039083, WO2011019504A1

Title: Breathable Film With Internal Viral And Alcohol Barrier Layer

Inventor: Alfred Baldwin, Yuhming Chen, Bradley P. Finnigan

Patent Assignee(s): LLC

14. Patent Number(s): US2009197039-A1; US7781353-B2; US 20060003154 A1

Title: Extruded Thermoplastic Articles with Enhanced Surface Segregation of Internal Melt Additive

Inventor Name(s): POWERS M D; QUINCY R B; SNOWDEN H S

Patent Assignee(s): KIMBERLY-CLARK WORLDWIDE INC (KIMB)

15. Patent Number(s): US2009094727-A1; US7930767-B2, US20110197331

Title: Body form-fitting rainwear

Inventor Name(s): REYNOLDS E M

Patent Assignee(s): REYNOLDS E M (REYN-Individual)

16. Patent Number(s): US2007113315-A1; US7437775-B2

Title: Body form-fitting rainwear for use as e.g. shirt, has two fabric layers respectively coupled to two sides of water 3apour3li layer with polymer material, where one fabric layer is separated from laminate

Inventor Name(s): REYNOLDS E M

Patent Assignee(s): REYNOLDS E M (REYN-Individual)

17. Patent Number(s): US2006003167-A1; US7285595-B2

Title: Synergistic fluorochemical treatment blend

Inventor Name(s): QUINCY R B; SNOWDEN H S

Patent Assignee(s): KIMBERLY-CLARK WORLDWIDE INC (KIMB)

18. Patent Number(s): US6953510-B1

Title: Method of making microporous breathable film

Inventor Name(s): MACKAY J H; BRADY K A

Patent Assignee(s): TREDEGAR FILM PROD CORP (TRED-Non-standard)

19. Patent Number(s): US2005129922-A1; US7247369-B2

Title: Fluid repellent microporous materials

Inventor Name(s): MROZINSKI J S; JARIWALA C P

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

20. Patent Number(s): US2005123727-A1; WO2005060425-A2; EP1689501-A2; AU2004304819-A1; MX2006006143-A1; BR200417059-A; JP2007512952-W; CN1890016-A; KR2006131768-A; US7279215-B2; MX262398-B; JP4382821-B2

Title: Membrane modules and integrated membrane cassettes

Inventor Name(s): HESTER J F; COLBURN D J; DOMROESE M K; FREEMYER H T; KODY R S; SLAMA D F; ZENK P B

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN); 3M INNOVATIVE PROPERTIES (MINN)

21. Patent Number(s): WO2004060667-A1; AU2003277218-A1; EP1572452-A1; JP2006511376-W; EP1572452-B1; DE60315708-E; DE60315708-T2; US2008108268-A1; US7381666-B2; JP4429174-B2

Title: Breathable film and fabric having liquid and viral barrier

Inventor Name(s): LITTLE S B; QUNICY R B; ROTELLA J A; SCHORR P A; STOPPER S R; QUNICY R B I; LITTLE S; QUNICY R; ROTELLA J; SCHORR P; STOPPER S; QUINCY R B

Patent Assignee(s): KIMBERLY-CLARK WORLDWIDE INC (KIMB); LITTLE S B (LITT-Individual); QUINCY R B (QUIN-Individual); ROTELLA J A (ROTE-Individual); SCHORR P A (SCHO-Individual); STOPPER S R (STOP-Individual); KIMBERLY-CLARK CORP (KIMB)

22. Patent Number(s): US2003203183-A1; WO2004103536-A1; EP1622703-A1; AU2004241934-A1;

BR200409669-A; MX2005012119-A1; KR2006010801-A; US7114621-B2; JP2007504000-W;
MX269909-B

Title: Membrane module elements

Inventor Name(s): HESTER J F; SPIEWAK B E; MROZINSKI J S; NELSON J M

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

23. Patent Number(s): US2004002554-A1; US6854603-B2

Title: Porous membrane structure and method

Inventor Name(s): KLARE R J

Patent Assignee(s): BHA TECHNOLOGIES INC (BHAT-Non-standard)

24. Patent Number(s): US2003228459-A1; WO2003104310-A2; AU2003267958-A1; US6858290-B2;
EP1511547-A2; BR200311262-A; KR2005016451-A; JP2005527694-W; MX2004011683-A1;
AU2003267958-A8; EP1511547-B1; DE60309167-E; DE60309167-T2; JP4261475-B2; MX255961-B;
KR988152-B1

Title: Fluid repellent microporous materials

Inventor Name(s): MROZINSKI J S; JARIWALA C P; MROZINSKI J; JARIWALA C

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

25. Patent Number(s): US 6258308 B1; EP1181145A2, US6843949, US20010041487,
US20030168776, WO2000069615A2, WO2000069615A3

Title: Process for adjusting WVTR and other properties of a polyolefin film

Inventor Name(s): BRADY K A; MACKAY J H

Patent Assignee(s): EXXON CHEM PATENTS INC (ESSO); TREDEGAR FILM PROD CORP
(TREDNon-standard)

26. Patent Number(s): US2003104192-A1; WO2003051782-A1; AU2002334979-A1; EP1453762-A1;
KR2004066162-A; JP2005511303-W; US7140495-B2; JP4680504-B2

Title: Layered sheet construction for wastewater treatment

Inventor Name(s): HESTER J F; SPIEWAK B E; HOLM D R; HALL J W; KIRK S M; DAVID M M;
LAKSHMI B B

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN); 3M INNOVATIVE
PROPERTIES (MINN)

27. Patent Number(s): US2003106130-A1; US7162746-B2

Title: Non-terminated, multi-aperture body form-fitting rainwear includes waterproof seams for sealing
joined edges of first waterproof moisture 4apour permeable hydrophobic layer and first fabric layer

Inventor Name(s): REYNOLDS E M

Patent Assignee(s): REYNOLDS E M (REYN-Individual)

28. Patent Number(s): WO2003016042-A; US2003035943-A1; WO2003016042-A1; EP1420946-A1;
AU2002313741-A1; KR2004032910-A; JP2004538186-W; MX2004001377-A1; BR200211912-A;
HU200402361-A1; CN1625467-A; CN1311964-C; RU2305632-C2; AU2002313741-B2; TW296571-
B1; JP4260623-B2; US7629042-B2; KR941184-B1

Title: Multilayer microporous films and methods

Inventor Name(s): JONES G K; MCAMISH L H; WU P; LILLY K L; SHELLEY C A; WENDORF M A; HUGHEY M L; PAI-CHUAN W; AARON S C; ANDREW W M; JONES G; LILLY K; MCAMISH L; SHELLEY C; WENDORF M

Patent Assignee(s): JONES G K (JONE-Individual); MCAMISH L H (MCAM-Individual); CLOPAY PLASTIC PROD CO INC (CLOP); CLOPAY PLASTIC PROD CO (CLOP); CLOPAY CORP (CLOP)

29. Patent Number(s): WO200289955-A; WO200289955-A1; US2002180082-A1; AU2002340901-A1;
US6824680-B2

Title: Preparation of microporous films from immiscible blends via melt processing and stretching

Inventor Name(s): CHANDAVASU C; XANTHOS M; SIRKAR K K; GOGOS C

Patent Assignee(s): NEW JERSEY INST TECHNOLOGY (NEWJ-Non-standard); CHANDAVASU C (CHAN-Individual); XANTHOS M (XANT-Individual); SIRKAR K K (SIRK-Individual); GOGOS C (GOGOIndividual)

30. Patent Number(s): WO200246063-A; WO200246063-A1; AU200147154-A; US2004062892-A1; BR200017381-A; MX2003005090-A1; AU2001247154-B2; MX272474-B

Title: Protective cover for agricultural products

Inventor Name(s): VASQUEZ J S; SANCHEZ C; RODRIGUEZ L F; SANTISTEBAN J A

Patent Assignee(s): POLYMER GROUP INC (POYM); VASQUEZ J S (VASQ-Individual); SANCHEZ C (SANC-Individual); RODRIGUEZ L F (RODR-Individual); SANTISTEBAN J A (SANT-Individual)

31. Patent Number(s): WO200166346-A; WO200166346-A1; AU200141988-A; US6638610-B1; US2004028890-A1

Title: Water and oil repellent porous materials and processes for making the same

Inventor Name(s): YAO L

Patent Assignee(s): POREX TECHNOLOGIES CORP (PORE-Non-standard)

32. Patent Number(s): US2001018096-A1; US6676993-B2

Title: Porous membrane structure and method

Inventor Name(s): KLARE R J

Patent Assignee(s): BHA TECHNOLOGIES INC (BHAT-Non-standard)

33. Patent Number(s): US6114023-A

Title: Printable microporous material

Inventor Name(s): SCHWARZ R A; ONDECK R R

Patent Assignee(s): PPG IND OHIO INC (PITT)

34. Patent Number(s): WO200047313-A; EP1154841-A; WO200047313-A1; AU9957786-A; US6228477-B1; EP1154841-A1; US6410084-B1; JP2003510377-W; CA2319003-C; EP1154841-B1; DE69917329-E; ES2221434-T3; DE69917329-T2

Title: Porous membrane structure and method

Inventor Name(s): KLARE R J; CHUBIN D E; KLARE J; CHUBIN E

Patent Assignee(s): BHA TECHNOLOGIES INC (BHAT-Non-standard)

35. Patent Number(s): US 6264864 B1; CA2346455A1, DE69911446D1, DE69911446T2, EP1121239A1, EP1121239B1, US6706228, US20010042938, WO2000023255A1, WO2000023255A9
Title: Process for producing polyolefin microporous breathable film
Inventor Name(s): MACKAY J H; BRADY K A
Patent Assignee(s): EXXON CHEM PATENTS INC (ESSO); EXXONMOBIL CHEM PATENTS INC (ESSO); EXXONMOBIL CHEM CO (ESSO)

36. Patent Number(s): WO200004957-A; EP1100592-A; WO200004957-A1; AU9921081-A; ZA9904642-A; EP1100592-A1; CZ200100268-A3; BR9912388-A; CN1311705-A; KR2001071022-A; US2002023651-A1; AU746751-B; MX2001000871-A1; JP2002521102-W; US2003005934-A1; US6584976-B2; US6805124-B2; EP1100592-B1; EP1479413-A2; DE69921660-E; ES2232108-T3; DE69921660-T2; CN1149113-C; KR544552-B1; CZ297721-B6
Title: Face mask that has a filtered exhalation valve
Inventor Name(s): JAPUNTICH D A; MCCULLOUGH N V; PETERSON J K; BAUMANN N R; BRYANT J W; HENDERSON C P; PENNING B E; MC CULLOUGH N V; JAPUNTICH A; MCCULLOUGH V; PETERSON K; BAUMANN R; BRYANT W; HENDERSON P; PENNING E
Patent Assignee(s): MINNESOTA MINING & MFG CO (MINN); 3M INNOVATIVE PROPERTIES CO (MINN)

M91/2 Weimer, W. K., Keenan, G. E., Kinney, R. J., Mrozinski, J. S., and Radovanovic, P. D., <i>US 5738111</i>, "Method for preventing transmission of viral pathogens," 1998.

Citiran je u 25 patenata:

1. Patent Number(s): US20110039468 A1; DE112010003266T5, WO2011019478A1
Title: Protective apparel having breathable film layer
Inventor Name(s): Alfred Frank Baldwin, Jr., Bradley P. Finnigan, Yuhming Chen
Patent Assignee(s): Baldwin Jr Alfred Frank, Finnigan Bradley P, Yuhming Chen

2. Patent Number(s): US20100159195 A1; CA2745788A1, EP2373410A2, EP2373410A4, WO2010073153A2, WO2010073153A3
Title: High repellency materials via nanotopography and post treatment
Inventor Name(s): Roger B. Quincy, III, Ali Yahiaoui
Patent Assignee(s): Quincy Iii Roger B, Ali Yahiaoui

3. Patent Number(s): WO2008045881-A1; US2008131676-A1; EP2079570-A1; CA2665646-A1; MX2009003820-A1
Title: Microporous Breathable Film with Internal Barrier Layer or Layers
Inventor Name(s): BECKE G S; CARMODY D J; DOBOSY M J
Patent Assignee(s): BECKE G S (BECK-Individual); CARMODY D J (CARM-Individual); DOBOSY M J (DOBO-Individual); PLIANT CORP (PLIA-Non-standard)

4. Patent Number(s): US20070272606 A1, US20150202577
Title: Multi-functional coatings on microporous substrates
Inventor: Donald T. Freese, Manish K. Nandi

Patent Assignee(s): Freese Donald T, Nandi Manish K

5. Patent Number(s): US20030104192 A1; EP1453762A1, US7140495, WO2003051782A1

Title: Apparatus for substantial removal of organic substance(s) and/or nitrogen source(s) from an aqueous medium

Inventor: Jonathan Hester, Brian Spiewak, David Holm, Jerald Hall, Seth Kirk, Moses David, Brinda Lakshmi

Patent Assignee(s): 3M Innovative Properties Company

6. Patent Number(s): US20030031833 A1; JP2002363501 (A); JP3834609 (B2)

Title: Water-repellent films and method for forming such films

Inventor: Hiroyuki Sugimura, Osamu Takai

Patent Assignee(s): Hiroyuki Sugimura, Osamu Takai

7. Patent Number(s): DE112010002882 T5; US9174420, US20110039083, WO2011019504A1

Title: Breathable Film With Internal Viral And Alcohol Barrier Layer

Inventor: Alfred Baldwin, Yuhming Chen, Bradley P. Finnigan

Patent Assignee(s): LLC

8. Patent Number(s): US 8663868 B2; CN1867622A, CN1867622B, DE602004026337D1, EP1678245A1, EP1678245B1, US7338692, US8962214, US20050058821, US20080113242, US20140134518, WO2005035641A1

Title: Microporous PVDF films

Inventor Name(s): Samantha D. Smith, Gene H. Shipman, Robert M. Floyd, Harold Todd Freemyer, Steven J. Hamrock, Michael A. Yandrasits, David G. S. Walton, Weniger

Patent Assignee(s): 3M Innovative Properties Company

9. Patent Number(s): US 6264864 B1; CA2346455A1, DE69911446D1, DE69911446T2, EP1121239A1, EP1121239B1, US6706228, US20010042938, WO2000023255A1, WO2000023255A9

Title: Process for producing polyolefin microporous breathable film

Inventor Name(s): MACKAY J H; BRADY K A

Patent Assignee(s): EXXON CHEM PATENTS INC (ESSO); EXXONMOBIL CHEM PATENTS INC (ESSO); EXXONMOBIL CHEM CO (ESSO)

10. Patent Number(s): US2009197039-A1; US7781353-B2; US 20060003154 A1

Title: Extruded Thermoplastic Articles with Enhanced Surface Segregation of Internal Melt Additive

Inventor Name(s): POWERS M D; QUINCY R B; SNOWDEN H S

Patent Assignee(s): KIMBERLY-CLARK WORLDWIDE INC (KIMB)

11. Patent Number(s): US2006003167-A1; US7285595-B2

Title: Synergistic fluorochemical treatment blend

Inventor Name(s): QUINCY R B; SNOWDEN H S

Patent Assignee(s): KIMBERLY-CLARK WORLDWIDE INC (KIMB)

12. Patent Number(s): US6953510-B1

Title: Manufacture of microporous breathable film used in diapers, adult incontinence devices, or surgical garments, comprises selecting film forming polyolefin precursor, blending precursor with filler, and combining blend with additive

Inventor Name(s): MACKAY J H; BRADY K A

Patent Assignee(s): TREDEGAR FILM PROD CORP (TRED-Non-standard)

13. Patent Number(s): US2005123727-A1; WO2005060425-A2; EP1689501-A2; AU2004304819-A1; MX2006006143-A1; BR200417059-A; JP2007512952-W; CN1890016-A; KR2006131768-A; US7279215-B2; MX262398-B; JP4382821-B2

Title: Membrane modules and integrated membrane cassettes

Inventor Name(s): HESTER J F; COLBURN D J; DOMROESE M K; FREEMYER H T; KODY R S; SLAMA D F; ZENK P B

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN); 3M INNOVATIVE PROPERTIES (MINN)

14. Patent Number(s): WO2004060667-A1; AU2003277218-A1; EP1572452-A1; JP2006511376-W; EP1572452-B1; DE60315708-E; DE60315708-T2; US2008108268-A1; US7381666-B2; JP4429174-B2

Title: Breathable film and fabric having liquid and viral barrier

Inventor Name(s): LITTLE S B; QUNICY R B; ROTELLA J A; SCHORR P A; STOPPER S R; QUNICY R B I; LITTLE S; QUNICY R; ROTELLA J; SCHORR P; STOPPER S; QUINCY R B

Patent Assignee(s): KIMBERLY-CLARK WORLDWIDE INC (KIMB); LITTLE S B (LITT-Individual); QUINCY R B (QUIN-Individual); ROTELLA J A (ROTE-Individual); SCHORR P A (SCHO-Individual); STOPPER S R (STOP-Individual); KIMBERLY-CLARK CORP (KIMB)

15. Patent Number(s): US2003203183-A1; WO2004103536-A1; EP1622703-A1; AU2004241934-A1; BR200409669-A; MX2005012119-A1; KR2006010801-A; US7114621-B2; JP2007504000-W; MX269909-B

Title: Membrane module elements

Inventor Name(s): HESTER J F; SPIEWAK B E; MROZINSKI J S; NELSON J M

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

16. Patent Number(s): US2004002554-A1; US6854603-B2; US 6676993 B2

Title: Porous membrane structure and method

Inventor Name(s): KLARE R J

Patent Assignee(s): BHA TECHNOLOGIES INC (BHAT-Non-standard)

17. Patent Number(s): US2003228459-A1; WO2003104310-A2; AU2003267958-A1; US6858290-B2; EP1511547-A2; BR200311262-A; KR2005016451-A; JP2005527694-W; MX2004011683-A1; AU2003267958-A8; EP1511547-B1; DE60309167-E; DE60309167-T2; JP4261475-B2; MX255961-B; KR988152-B1, CA2487104A1, DE60309167D1, DE60309167T2, US7247369, US20050129922, WO2003104310A3, WO2003104310A8,

Title: Fluid repellent microporous materials

Inventor Name(s): MROZINSKI J S; JARIWALA C P; MROZINSKI J; JARIWALA C

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

18. Patent Number(s): US2003168776-A1; US6843949-B2

Title: Production of breathable film composite comprises providing film composite having first and second layers, and passing first and second layers between pair of interdigitating grooved rollers

Inventor Name(s): BRADY K A; MACKAY J H

Patent Assignee(s): EXXON CHEM PATENTS INC (ESSO); TREDEGAR FILM PROD CORP (TREDNon-standard)

19. Patent Number(s): US2003104192-A1; WO2003051782-A1; AU2002334979-A1; EP1453762-A1; KR2004066162-A; JP2005511303-W; US7140495-B2; JP4680504-B2

Title: Layered sheet construction for wastewater treatment

Inventor Name(s): HESTER J F; SPIEWAK B E; HOLM D R; HALL J W; KIRK S M; DAVID M M; LAKSHMI B B

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN); 3M INNOVATIVE PROPERTIES (MINN)

20. Patent Number(s): WO200166346-A; WO200166346-A1; AU200141988-A; US6638610-B1; US2004028890-A1

Title: Porous hydrophobic and/or oleophobic material, used for filters, vents, and pipette tips, has a specified surface energy and comprises a sintered porous thermoplastic substrate, coated with a high molecular weight fluorochemical

Inventor Name(s): YAO L

Patent Assignee(s): POREX TECHNOLOGIES CORP (PORE-Non-standard)

21. Patent Number(s): US2001018096-A1; US6676993-B2

Title: Treatment of a membrane, for e.g. filter elements, comprise dispersing oleophobic fluoropolymer solids in the pores of the membrane followed by stabilization of the dispersion and coalescence of the fluoropolymer solid

Inventor Name(s): KLARE R J

Patent Assignee(s): BHA TECHNOLOGIES INC (BHAT-Non-standard)

22. Patent Number(s): WO200047313-A; EP1154841-A; WO200047313-A1; AU9957786-A; US6228477-B1; EP1154841-A1; US6410084-B1; JP2003510377-W; CA2319003-C; EP1154841-B1; DE69917329-E; ES2221434-T3; DE69917329-T2

Title: Porous membrane structure and method

Inventor Name(s): KLARE R J; CHUBIN D E; KLARE J; CHUBIN E

Patent Assignee(s): BHA TECHNOLOGIES INC (BHAT-Non-standard)

23. Patent Number(s): US 6258308 B1; EP1181145A2, US6843949, US20010041487, US20030168776, WO2000069615A2, WO2000069615A3

Title: Process for adjusting WVTR and other properties of a polyolefin film

Inventor Name(s): MACKAY J H; BRADY K A

Patent Assignee(s): EXXON CHEM PATENTS INC (ESSO); EXXONMOBIL CHEM PATENTS INC (ESSO); EXXONMOBIL CHEM CO (ESSO)

24. Patent Number(s): WO9834977-A; EP960154-A; FR2759087-A1; WO9834977-A1; AU9861058-A;

EP960154-A1; CN1246877-A; JP2001511825-W; CN1341679-A; AU749708-B; EP960154-B1;

DE69810752-E; US2003157314-A1; US2003175494-A1; ES2192321-T3; US6702965-B2; CN1139622-C; US6962745-B2; CA2295841-C; US7384686-B2; JP2009197227-A; CN1341679-B
Title: Porous composite product particularly with high specific surface area, method for preparing and electrode for electrochemical assembly formed with a porous composite film.
Inventor Name(s): PENNEAU J F; CAPITAINE F; LE GOFF P; PENNEAU J; PENNEAU J -; LEGOFF P; KAPITAN F; LEIGOFF P; PAINGNO J
Patent Assignee(s): ELECTRICITE DE FRANCE (ELEC); BOLLORE TECHNOLOGIES (BOLLNon-standard); BOLLORE O (BOLL-Individual); BOLLORE SA (BOLL-Non-standard); BOLLORE (BOLLNon-standard); PENNEAU J (PENN-Individual); CAPITAINE F (CAPI-Individual); LE GOFF P (LGOFFIndividual)

25. Patent Number(s): WO9808595-A; WO9808595-A2; AU9746463-A; EP949959-A2; JP2001500542-W; AU740682-B; US6413621-B1; US2002155311-A1; US2003198825-A1; CA2263582-C; JP2007182571-A; EP949959-B1; DE69738823-E; JP2009079224-A; JP4406713-B2; AU200215479-A; AU771431-B2; AU2004202856-A1, US20030198825 A1
Title: Polymeric membranes and other polymer articles having desired surface characteristics and method for their preparation
Inventor Name(s): MAYES A M; WALTON D G; HESTER J F; MASTER J F; MAYES A; WALTON D; HESTER J
Patent Assignee(s): MASSACHUSETTS INST TECHNOLOGY (MASI); MAYES A M (MAYE-Individual); WALTON D G (WALT-Individual); MASTER J F (MAST-Individual)

M91/3 Weimer, W. K., Keenan, G. E., Kinney, R. J., Mrozinski, J. S., and Radovanovic, P. D., <i>US 5935370</i>, "Method for laminating a viral barrier microporous membrane to a nonwoven web to prevent transmission of viral pathogens," 1999.

Citiran je u 21 patenatu.

1. Patent Number(s): US20110039468 A1; DE112010003266T5, WO2011019478A1
Title: Protective apparel having breathable film layer
Inventor Name(s): Alfred Frank Baldwin, Jr., Bradley P. Finnigan, Yuhming Chen
Patent Assignee(s): Baldwin Jr Alfred Frank, Finnigan Bradley P, Yuhming Chen

2. Patent Number(s): US20070272606 A1, US20150202577
Title: Multi-functional coatings on microporous substrates
Inventor: Donald T. Freese, Manish K. Nandi
Patent Assignee(s): Freese Donald T, Nandi Manish K

3. Patent Number(s): US20060094320 A1, EP1819859A1, WO2006049663A1
Title: Gradient nanofiber materials and methods for making same
Inventor: Fung-Jou Chen, Lei Huang, Jeffrey Lindsay
Patent Assignee(s): Kimberly-Clark Worldwide, Inc.

4. Patent Number(s): US20060021302 A1, EP1771210A1, WO2006015329A1
Title: Anti-microbial air filter

Inventor: Bobby Bernard
Patent Assignee(s): Bernard Bobby L

5. Patent Number(s): US20050245162 A1; CN1950555A, CN1950555B, DE602005014463D1, EP1740364A1, EP1740364B1, WO2005110719A1

Title: Multi-capable elastic laminate process

Inventor: Ann McCormack, Keith Loveless, Wing-Chak Ng

Patent Assignee(s): Kimberly-Clark Worldwide, Inc.

6. Patent Number(s): DE112010002882 T5; US9174420, US20110039083, WO2011019504A1

Title: Breathable Film With Internal Viral And Alcohol Barrier Layer

Inventor: Alfred Baldwin, Yuhming Chen, Bradley P. Finnigan

Patent Assignee(s): LLC

7. Patent Number(s): US8367570 B2, US8367570, US20130190709, US 20060246798 A1

Title: Mechanically strong absorbent non-woven fibrous mats

Inventor Name(s): Darrell H. Reneker, Daniel J. Smith

Patent Assignee(s): The University Of Akron

8. Patent Number(s): US7765647-B2, EP1490538A2, EP1490538A4, EP1490538B1, US7765647, US8240009, US20110028878, WO2003086234A2, WO2003086234A3, US 20060153904 A1

Title: Non-woven fiber assemblies

Inventor Name(s): RENEKER D H; SMITH D J

Patent Assignee(s): UNIV AKRON (UYAK)

9. Patent Number(s): DE102009003485-A1; GB2457786-A; US2009211581-A1; KR2009092237-A; CN101558913-A

Title: Respiratory mask with microporous membrane and activated carbon

Inventor Name(s): BANSAL V

Patent Assignee(s): BHA GROUP INC (BHAB-Non-standard); BANSAL V (BANS-Individual)

10. Patent Number(s): WO2009065092-A1; US2010272941-A1

Title: Durable water- and oil- resistant, breathable microporous membrane

Inventor Name(s): GERTS S; LEE D; PEKELA R W; ROGERS C; SRINIVAS C; CHERUKUPALLI S; PEKALA R W

Patent Assignee(s): ENTEK MEMBRANES LLC (ENTE-Non-standard)

11. Patent Number(s): WO2006049664-A1; EP1834019-A1; KR2007073851-A; US7390760-B1; US2008160856-A1; MX2007005264-A1; MX272145-B; EP1834019-B1; DE602005025252-E

Title: Composite nanofiber materials and methods for making same

Inventor Name(s): CHEN F; HUANG L; LINDSAY J D; LINDSAY J; CHEN F J

Patent Assignee(s): KIMBERLY-CLARK WORLDWIDE INC (KIMB)

12. Patent Number(s): US2006052495-A1; WO2006028720-A1; US7230043-B2

Title: Hydrophilic polymer composition

Inventor Name(s): KLUN T P; BOARDMAN L D; ROSS R B; CALDWELL G A

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

13. Patent Number(s): US2005129922-A1; US7247369-B2

Title: Fluid repellent microporous materials

Inventor Name(s): MROZINSKI J S; JARIWALA C P

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

14. Patent Number(s): WO2004060667-A1; AU2003277218-A1; EP1572452-A1; JP2006511376-W; EP1572452-B1; DE60315708-E; DE60315708-T2; US2008108268-A1; US7381666-B2; JP4429174-B2

Title: Breathable film and fabric having liquid and viral barrier

Inventor Name(s): LITTLE S B; QUNICY R B; ROTELLA J A; SCHORR P A; STOPPER S R; QUNICY R B I; LITTLE S; QUNICY R; ROTELLA J; SCHORR P; STOPPER S; QUINCY R B

Patent Assignee(s): KIMBERLY-CLARK WORLDWIDE INC (KIMB); LITTLE S B (LITT-Individual); QUINCY R B (QUIN-Individual); ROTELLA J A (ROTE-Individual); SCHORR P A (SCHO-Individual); STOPPER S R (STOP-Individual); KIMBERLY-CLARK CORP (KIMB)

15. Patent Number(s): US2003228459-A1; WO2003104310-A2; AU2003267958-A1; US6858290-B2; EP1511547-A2; BR200311262-A; KR2005016451-A; JP2005527694-W; MX2004011683-A1; AU2003267958-A8; EP1511547-B1; DE60309167-E; DE60309167-T2; JP4261475-B2; MX255961-B; KR988152-B1, CA2487104A1, DE60309167D1, DE60309167T2, US7247369, US20050129922, WO2003104310A3, WO2003104310A8,

Title: Fluid repellent microporous materials

Inventor Name(s): MROZINSKI J S; JARIWALA C P; MROZINSKI J; JARIWALA C

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

16. Patent Number(s): WO2003086234-A2; AU2003228460-A1; EP1490538-A2; KR2005018653-A; JP2006501373-W; AU2003228460-A8; US2006153904-A1; US2011028878-A1; KR2011013496-A; KR1027550-B1

Title: Non-woven fiber assemblies

Inventor Name(s): SMITH D; RENEKER D; SMITH D H; RENEKER D H; SMITH D J

Patent Assignee(s): UNIV AKRON (UYAK); SMITH D H (SMIT-Individual); RENEKER D H (RENEIndividual)

17. Patent Number(s): WO2003039713-A; WO2003039713-A1; US20040020367-A1; EP1441831-A1;

AU2002363423-A1; US6872241-B2; JP2005508245-W; CN1604810-A; MX2004003603-A1

Title: Anti-pathogenic air filtration media and air handling devices having protective capabilities against infectious airborne microorganisms

Inventor Name(s): SOANE D S; TAGGE C D

Patent Assignee(s): INNOVATIVE CONSTR & BUILDING MATERIALS L (INNO-Non-standard); SOANE D S (SOAN-Individual); TAGGE C D (TAGG-Individual); INNOVATIVE CONSTR & BUILDING MATERIAL CO LTD (INNO-Non-standard)

18. Patent Number(s): WO200234376-A; WO200234376-A1; AU200191212-A; CA2425270A1, CA2425270C, DE60120207D1, DE60120207T2, EP1326703A1, EP1326703B1, WO2002034375A1

Title: Laminates of asymmetric membranes

Inventor Name(s): WANG I; DITTER J F; LAMON S; BENSON T; SARABIA R; GAUGHAN M; MORRIS R; MCDONOGH R

Patent Assignee(s): USF FILTRATION & SEPARATIONS GROUP INC (USFF-Non-standard)

19. Patent Number(s): WO200234375-A; EP1326703-A; WO200234375-A1; AU200195065-A; EP1326703-A1; US6596112-B1; JP2004512164-W; US2005260381-A1; EP1326703-B1; DE60120207-E; DE60120207-T2; CA2425270-C; US7851043-B2, US7851043 B2

Title: Laminates of asymmetric membranes

Inventor Name(s): DITTER J F; MCDONOGH R; LAMON S; BENSON T; SARABIA R; GAUGHAN M; WANG I; MORRIS R; DITTER J; MORRIS R; DITTER F

Patent Assignee(s): USF FILTRATION & SEPARATIONS GROUP INC (USFF-Non-standard); PALL CORP (PALL); DITTER J (DITT-Individual); MCDONOGH R (MCDO-Individual); LAMON S (LAMO-Individual); BENSON T (BENS-Individual); SARABIA R (SARA-Individual); GAUGHAN M (GAUG-Individual); WANG I (WANG-Individual); MORRIS R (MORR-Individual)

20. Patent Number(s): US6364247-B1

Title: Pneumatic floatation device for continuous web processing system, has micro porous sheet with internal and external layers to maintain air circulation during contact support

Inventor Name(s): POLKINGHORNE D T

Patent Assignee(s): POLKINGHORNE D T (POLK-Individual)

21. Patent Number(s): WO200164185-A; EP1259190-A; WO200164185-A2; AU200141791-A; EP1259190-A2; JP2003525082-W; US6617151-B1; EP1259190-B1; DE60103024-E; US2004191893-A1; CA2401492-C; US2007026515-A1

Title: Cell or drug encapsulation device having a wet seal

Inventor Name(s): NEWMAN S C; KRAM B H; HUBBARD T A

Patent Assignee(s): GORE ENTERPRISE HOLDINGS INC (GORE); NEWMAN S C (NEWM-Individual); KRAM B H (KRAM-Individual); HUBBARD T A (HUBB-Individual)

M91/4 Weimer, W. K., Keenan, G. E., Kinney, R. J., Mrozinski, J. S., and Radovanovic, P. D., <i>US 5981038</i>, "Laminate preventing transmission of viral pathogens," 1999.

Citiran je u 17 patenata.

1. Patent Number(s): US20110039468 A1; DE112010003266T5, WO2011019478A1

Title: Protective apparel having breathable film layer

Inventor Name(s): Alfred Frank Baldwin, Jr., Bradley P. Finnigan, Yuhming Chen

Patent Assignee(s): Baldwin Jr Alfred Frank, Finnigan Bradley P, Yuhming Chen

2. Patent Number(s): US20080200890 A1, CN102046213A, EP2274021A2, WO2009126512A2, WO2009126512A3

Title: Antimicrobial disposable absorbent articles

Inventor: Leigh E. Wood, Alexis S. Statham, Francis E. Porbeni, Robert J. Maki, Jeremy M. Yarwood, Matthew J. Schmid, Ronald W. Ausen, Jay M. Jennen, Kelly S. ANDERSON, Matthew T. Scholz, Robert W. Peterson, Erin A. Meulners

Patent Assignee(s): 3M Innovative Properties Company

3. Patent Number(s): US20080142023 A1, CN101557708A, CN101557708B, CN104304243A, EP2101572A2, EP2101572A4, EP2101572B1, EP2907387A1, WO2008133724A2, WO2008133724A3

Title: Biocompatible antimicrobial compositions

Inventor: Matthew J. Schmid, Ronald W. Ausen, Jay M. Jennen, Kelly S. ANDERSON, Matthew T. Scholz, Robert W. Peterson, Erin A. Meulners

Patent Assignee(s): 3M Innovative Properties Company

4. Patent Number(s): US20070272606 A1, US20150202577

Title: Multi-functional coatings on microporous substrates

Inventor: Donald T. Freese, Manish K. Nandi

Patent Assignee(s): Freese Donald T, Nandi Manish K

5. Patent Number(s): US20030075828 A1

Title: Solvent resistant glove

Inventor Name(s): Jonathan Thomas, Angela Bryant

Patent Assignee(s): Thomas Jonathan David, Angela Bryant

6. Patent Number(s): WO2011019478-A1; US2011039468-A1, DE112010003266T5

Title: Protective apparel having breathable film layer

Inventor Name(s): BALDWIN A F; FINNIGAN B P; CHEN Y

Patent Assignee(s): PRECISION FABRICS GROUP INC (PREC-Non-standard); BALDWIN A F (BALDIndividual); FINNIGAN B P (FINN-Individual)

7. Patent Number(s): US2009094727-A1; US7930767-B2, US20090094727

Title: Body form-fitting rainwear

Inventor Name(s): REYNOLDS E M

Patent Assignee(s): REYNOLDS E M (REYN-Individual)

8. Patent Number(s): WO2008045881-A1; US2008131676-A1; EP2079570-A1; CA2665646-A1; MX2009003820-A1

Title: Microporous Breathable Film with Internal Barrier Layer or Layers

Inventor Name(s): BECKE G S; CARMODY D J; DOBOSY M J

Patent Assignee(s): BECKE G S (BECK-Individual); CARMODY D J (CARM-Individual); DOBOSY M J (DOBO-Individual); PLIANT CORP (PLIA-Non-standard)

9. Patent Number(s): US2007113315-A1; US7437775-B2

Title: Body form-fitting rainwear for use as e.g. shirt, has two fabric layers respectively coupled to two sides of water repellant layer with polymer material, where one fabric layer is separated from laminate

Inventor Name(s): REYNOLDS E M

Patent Assignee(s): REYNOLDS E M (REYN-Individual)

10. Patent Number(s): US2006052495-A1; WO2006028720-A1; US7230043-B2

Title: Hydrophilic polymer composition

Inventor Name(s): KLUN T P; BOARDMAN L D; ROSS R B; CALDWELL G A

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

11. Patent Number(s): US2005129922-A1; US7247369-B2

Title: Fluid repellent microporous materials

Inventor Name(s): MROZINSKI J S; JARIWALA C P

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

12. Patent Number(s): WO2004060667-A1; AU2003277218-A1; EP1572452-A1; JP2006511376-W; EP1572452-B1; DE60315708-E; DE60315708-T2; US2008108268-A1; US7381666-B2; JP4429174-B2, US 7381666 B2

Title: Breathable film and fabric having liquid and viral barrier

Inventor Name(s): LITTLE S B; QUNICY R B; ROTELLA J A; SCHORR P A; STOPPER S R; QUNICY R B I; LITTLE S; QUNICY R; ROTELLA J; SCHORR P; STOPPER S; QUINCY R B

Patent Assignee(s): KIMBERLY-CLARK WORLDWIDE INC (KIMB); LITTLE S B (LITT-Individual); QUINCY R B (QUIN-Individual); ROTELLA J A (ROTE-Individual); SCHORR P A (SCHO-Individual); STOPPER S R (STOP-Individual); KIMBERLY-CLARK CORP (KIMB)

13. Patent Number(s): US2003228459-A1; WO2003104310-A2; AU2003267958-A1; US6858290-B2; EP1511547-A2; BR200311262-A; KR2005016451-A; JP2005527694-W; MX2004011683-A1; AU2003267958-A8; EP1511547-B1; DE60309167-E; DE60309167-T2; JP4261475-B2; MX255961-B; KR988152-B1

Title: Fluid repellent microporous materials

Inventor Name(s): MROZINSKI J S; JARIWALA C P; MROZINSKI J; JARIWALA C

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

14. Patent Number(s): US20070283808

Title: Air filter with fine fiber and spun bonded media

Inventor Name(s): CHUNG H Y; HALL J R B; GOGINS M A; CROFOOT D G; WEIK T M; BARRIS M A; CHUNG H; HALL J; GOGINS M; CROPOOT D; WEIK T; HOO Y C; BONNER H J R; GRANT C D; MOORE W T; CROFOOT D; FERRER I; LAICER C S

Patent Assignee(s): Donaldson Company, Inc.

15. Patent Number(s): US20030045849 A1, CA2446401A1, EP1401653A1, WO2002087876A1

Patent Number(s): Medical laminate with viral barrier

Inventor Name(s): John Steffen, Keith Wilbourn

Patent Assignee(s): Polymer Group, Inc.

16. Patent Number(s): CA2419770A1, CA2419770C, CN1318512C, CN1543487A, EP1358272A2, EP1358272B1, EP2730327A2, EP2730327A3, EP2740524A1, US6743273, US6924028, US6955775, US7070640, US7090715, US7179317, US7318852, US7318853, US8029588, US8118901, US8366797, US8512431, US8709118, US20030106294, US20040060268, US20040060269, US20040123572, US20040187454, US20070012007, US20070271883, US20070271891, US20080110822, US20100064645, US20100178507, US20120204527, US20130001154, US20130199992, US20140196420, WO2002020668A2, WO2002020668A3, US 20110067369 A1

Title: Fine fiber media layer (Process if making fine fiber material, Polymer, polymer microfiber, polymer nanofiber and applications including filter structures)

Inventor Name(s): GOGINS M A; WEIK T M; CHUNG H Y; HALL J R B; CROFOOT D G; GOGINS M; WEIK T; COGINS M A; BENSON J D; GILLINGHAM G; GILLINGHAM G R
Patent Assignee(s): DONALDSON CO INC (DOND); GOGINS M A (GOGI-Individual); WEIK T M (WEIKIndividual)

17. Patent Number(s): WO200140448-A; WO200140448-A1; AU200118113-A; US2001034055-A1; US6861001-B2; US2005247630-A1; US7160464-B2

Title: Methods for removal, purification, and concentration of viruses and methods of therapy based thereupon

Inventor Name(s): LEE W; MORGAN J R; YARMUSH M L

Patent Assignee(s): GEN HOSPITAL CORP (GEHO); LEE W (LEEW-Individual); MORGAN J R (MORGIndividual); YARMUSH M L (YARM-Individual)

M91/5 Mrozinski, J. S., Burleigh, M. B., **Radovanovic, P. D.**, and Johnson, B. D., *US 5989698*, "Coated porous materials," 1999. Objavljen je i kao WO9834718 (A1), US2001000183 (A1), JP2001511826 (A), JP3876326 (B2), EP0956148 (A1), EP0956148 (B1), DE69718936 (T2), CN1245445 (A), CN1134287 (C), AU4818197 (A).

Citiran je u 31 patenatu:

1. Patent Number(s): US20050147757 A1, CN1905930A, CN100509107C, EP1711245A1, EP1711245A4, WO2005068046A1

Title: Method for wetting hydrophobic porous polymeric membranes to improve water flux without alcohol treatment

Inventor Name(s): Il Roh, Craig Bartels

Patent Assignee(s): Roh Il J., Bartels Craig R.

2. Patent Number(s): US20090110833 A1, CA2703512A1, CN101918186A, EP2217420A2, EP2217420A4, WO2009059020A2, WO2009059020A3

Title: Method for abrasion-resistant non-stick surface treatments for pelletization and drying process equipment components

Inventor Name(s): Roger Blake Wright, Duane Allen Boothe, Walter Kevin Umphlett

Patent Assignee(s): Gala Industries, Inc.

3. Patent Number(s): US20110027528 A1

Title: Gas diffuser membrane with coated substrate and method for manufacturing the same

Inventor Name(s): Charles E. Tharp, Warrick S. Wadman, David A. Capron, Glen K. Wylie

Patent Assignee(s): Tharp Charles E, Wadman Warrick S, Capron David A, Wylie Glen K

4. Patent Number(s): US20080003405 A1, US7815974, US8172207, US20110003115

Title: Gas diffuser membrane with coated substrate

Inventor Name(s): Charles E. Tharp

Patent Assignee(s): Tharp Charles E

5. Patent Number(s): US20070001323 A1

Title: Multi-layered membrane for air diffuser

Inventor Name(s): Seoungil Kang
Patent Assignee(s): Seoungil Kang

6. Patent Number(s): US20060057435 A1; CA2580045A1, CN101432922A, EP1810356A2, EP1810356A4, US20060057437, WO2006059239A2, WO2006059239A3

Title: Method and apparatus for preventing fuel decomposition in a direct liquid fuel cell (Direct liquid fuel cell and method of preventing fuel decomposition in a direct liquid fuel cell)

Inventor Name(s): Gennadi Finkelshtain, Yuri Katsman, Ilan Sadon, Mark Estrin, Alexander Litvinov, Boris Ilyushin, Alexander Chinak

Patent Assignee(s): Medis Technologies Ltd

7. Patent Number(s): US20050260481 A1, CA2567057A1, CN101432913A, EP1751815A2, EP1751815A4, WO2006016281A2, WO2006016281A3

Title: Disposable fuel cell with and without cartridge and method of making and using the fuel cell and cartridge

Inventor Name(s): Gennadi Finkelshtain, Mark Estrin, Moti Meron, Eric Torgeman, Yuri Katsman, Alexander Silberman

Patent Assignee(s): Gennadi Finkelshtain, Mark Estrin, Moti Meron, Eric Torgeman, Yuri Katsman, Alexander Silberman

8. Patent Number(s): US20050158609 A1

Title: Hydride-based fuel cell designed for the elimination of hydrogen formed therein

Inventor Name(s): Gennadi Finkelshtain, Alexander Silberman, Mark Estrin, Igor Derzy, Emilio Sanchez-Cortezon, James Miners, Pascal Gouerec

Patent Assignee(s): Gennadi Finkelshtain, Alexander Silberman, Mark Estrin, Igor Derzy, Emilio Sanchez-Cortezon, Miners James H., Pascal Gouerec

9. Patent Number(s): WO2003020425-A; WO2003020425-A1; US2003096424-A1; US2003124332-A1;

EP1427532-A1; AU2002332719-A1; JP2005501758-W; CN1578702-A; IN200400623-P4; US7094464-B2; US2006280931-A1; EP1427532-B1; CN1281323-C; DE60218187-E; DE60218187-T2; US7456025-B2; US7507469-B2; JP4652684-B2

Title: Sintered polymer membrane for analyte detection device

Inventor Name(s): MAO G; GREENE G W; YAO L; COPPOLA R J; GREENE G; GUOQIANG M; GEORGE G; LI Y; GREENE W; YAO G

Patent Assignee(s): POREX CORP (PORE-Non-standard); MAO G (MAOG-Individual); COPPOLA R J (COPP-Individual); GREENE G W (GREE-Individual); YAO L (YAOL-Individual); GREENE G (GREEIndividual)

10. Patent Number(s): WO200166346-A; WO200166346-A1; AU200141988-A; US6638610-B1; US2004028890-A1

Title: Water and oil repellent porous materials and processes for making the same

Inventor Name(s): YAO L

Patent Assignee(s): POREX TECHNOLOGIES CORP (PORE-Non-standard)

11. Patent Number(s): WO200072941-A; EP1187666-A; WO200072941-A1; AU200050494-A; US6355081-B1; EP1187666-A1; US2002139095-A1; JP2003500180-W

Title: Oleophobic filter materials for filter venting applications
Inventor Name(s): WANG I; MC DONOGH R; MCDONOGH R
Patent Assignee(s): USF FILTRATION & SEPARATIONS GROUP INC (USFF-Non-standard); WANG I (WANG-Individual); MCDONOGH R (MCDO-Individual)

12. Patent Number(s): US6672135 B2, EP1251935A1, US20030192363, WO2001051177A1

Title: Filter for gas analysis

Inventor Name(s): Joseph G. Adiletta

Patent Assignee(s): Pall Corporation

13. Patent Number(s): US2004021238-A1; WO2004014638-A1; AU2003253378-A1; US6843940-B2; EP1539468-A1; JP2005534544-W; CN1675052-A; EP1539468-B1; DE60303817-E; DE60303817-T2; CN100534770-C; JP4384980-B2

Title: Method and mold for molding plastic lenses (Method for molding plastic lenses)

Inventor Name(s): REED J A; BORYSLAWSKI J; REED J; REED A

Patent Assignee(s): ESSILOR INT CIE GEN OPTIQUE SA (ESSI); ESSILOR INT (ESSI); ESSILOR INT CIE

GEN OPTIQUE (ESSI); CIE GEN OPTIQUE ESSILOR INT SA (ESSI)

14. Patent Number(s): US2005129922-A1; US7247369-B2

Title: Fluid repellent microporous materials

Inventor Name(s): MROZINSKI J S; JARIWALA C P

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

15. Patent Number(s): US2004102552-A1; WO2004048485-A1; AU2003272678-A1; BR200306563-A; US6897251-B2; EP1563019-A1; JP2006507391-W; MX249621-B; JP4567461-B2

Title: Clearcoat compositions and method of reducing the ability of rain to bead on a film of the clearcoat composition

Inventor Name(s): BOISSEAU J E; DESKOVITZ P; BOISSEAU J

Patent Assignee(s): BASF CORP (BADI)

16. Patent Number(s): EP1449666-A1; US2004165040-A1; JP2004255875-A; CN1524706-A; US6969165-B2; TW200416147-A; TW296576-B1; CN100464989-C

Title: Ink reservoirs

Inventor Name(s): OLSEN D; OLSEN D N; DAVID N O

Patent Assignee(s): HEWLETT-PACKARD DEV CO LP (HEWP); OLSEN D N (OLSE-Individual); HEWLETT-PACKARD DEV CO (HEWP)

17. Patent Number(s): US2003203183-A1; WO2004103536-A1; EP1622703-A1; AU2004241934-A1; BR200409669-A; MX2005012119-A1; KR2006010801-A; US7114621-B2; JP2007504000-W; MX269909-B

Title: Membrane module elements

Inventor Name(s): HESTER J F; SPIEWAK B E; MROZINSKI J S; NELSON J M

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

18. Patent Number(s): US2003104192-A1; WO2003051782-A1; AU2002334979-A1; EP1453762-A1;

KR2004066162-A; JP2005511303-W; US7140495-B2; JP4680504-B2

Title: Layered sheet construction for wastewater treatment

Inventor Name(s): HESTER J F; SPIEWAK B E; HOLM D R; HALL J W; KIRK S M; DAVID M M; LAKSHMI B B

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN); 3M INNOVATIVE PROPERTIES (MINN)

19. Patent Number(s): US2005123727-A1; WO2005060425-A2; EP1689501-A2; AU2004304819-A1; MX2006006143-A1; BR200417059-A; JP2007512952-W; CN1890016-A; KR2006131768-A; US7279215-B2; MX262398-B; JP4382821-B2

Title: Membrane modules and integrated membrane cassettes

Inventor Name(s): HESTER J F; COLBURN D J; DOMROESE M K; FREEMYER H T; KODY R S; SLAMA D F; ZENK P B

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN); 3M INNOVATIVE PROPERTIES (MINN)

20. Patent Number(s): WO2004060667-A1; AU2003277218-A1; EP1572452-A1; JP2006511376-W; EP1572452-B1; DE60315708-E; DE60315708-T2; US2008108268-A1; US7381666-B2; JP4429174-B2

Title: Breathable film and fabric having liquid and viral barrier

Inventor Name(s): LITTLE S B; QUNICY R B; ROTELLA J A; SCHORR P A; STOPPER S R; QUNICY R B I; LITTLE S; QUNICY R; ROTELLA J; SCHORR P; STOPPER S; QUINCY R B

Patent Assignee(s): KIMBERLY-CLARK WORLDWIDE INC (KIMB); LITTLE S B (LITT-Individual); QUINCY R B (QUIN-Individual); ROTELLA J A (ROTE-Individual); SCHORR P A (SCHO-Individual); STOPPER S R (STOP-Individual); KIMBERLY-CLARK CORP (KIMB)

21. Patent Number(s): US2006045979-A1; WO2006028608-A1; EP1632464-A1; AU2005283038-A1; IN200700933-P4; CN101039888-A; BR200514854-A; MX2007002628-A1; US7566480-B2; CN101039888-B; EP1632464-B1, US7566480

Title: Fluorochemical composition for treating porous stone

Inventor Name(s): DAMS R J; DAMS R

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN); 3M INNOVATION CO LTD (MINN)

22. Patent Number(s): US2005266228-A1; WO2005118280-A1; EP1753607-A1; NO200606030-A; AU2005249942-A1; CN1980790-A; KR2007024619-A; JP2008500205-W; TW200600540-A; US7704598-B2

Title: Durable covering for chemical protection

Inventor Name(s): JAIN M K; QUINN T M; SMILEY A J; JAIN M; QUINN T; SMILEY A

Patent Assignee(s): JAIN M K (JAIN-Individual); QUINN T M (QUIN-Individual); SMILEY A J (SMILIndividual); GORE ENTERPRISE HOLDINGS INC (GORE); GORE ENTERPRISE HOLDINGS (GORE)

23. Patent Number(s): US8864293 B2, CN103660585A, CN103660585B, US20140071205

Title: Phase change ink reservoir for a phase change inkjet printer

Inventor Name(s): David Paul Platt, David L. Knierim, Tesfalem Zewdneh

Patent Assignee(s): Xerox Corporation

24. Patent Number(s): US20030104192 A1; EP1453762A1, US7140495, WO2003051782A1

Title: Apparatus for substantial removal of organic substance(s) and/or nitrogen source(s) from an aqueous medium

Inventor: Jonathan Hester, Brian Spiewak, David Holm, Jerald Hall, Seth Kirk, Moses David, Brinda Lakshmi

Patent Assignee(s): 3M Innovative Properties Company

25. Patent Number(s): US20030212217 A1, WO2003095581A1

Title: Fluorinated activator

Inventor Name(s): Suresh Sawant, Bernard Morkunas

Patent Assignee(s): Suresh Sawant, Bernard Morkunas

26. Patent Number(s): US20040043224 A1

Title: Enhanced hydrophobic membranes and methods for making such membranes

Inventor Name(s): Shmuel Sternberg

Patent Assignee(s): Shmuel Sternberg

27. Patent Number(s): WO200196437-A; EP1297044-A; DE10029623-A1; WO200196437-A1; NO200205847-A; EP1297044-A1; JP2004503629-W; US2004106821-A1; EP1297044-B1; DE50109160-G; ES2258089-T3

Title: Lubricating agent containing fluorinated urethane

Inventor Name(s): GROTTENMUELLER R; SCHMITT N; PROBST A; GROTTENMULLER R

Patent Assignee(s): CLARIANT GMBH (CLRN); GROTTENMULLER R (GROT-Individual); SCHMITT N (SCHM-Individual); PROBST A (PROB-Individual); CLARIANT PROD DEUT GMBH (CLRN)

28. Patent Number(s): US20060101796 A1, EP1656981A1

Title: Air filtration media

Inventor Name(s): Charles Kern, Philip Miele, Bernd Christensen

Patent Assignee(s): Kern Charles F, Miele Philip F, Bernd Christensen

29. Patent Number(s): US2006231487-A1; WO2006113266-A2

Title: Coated filter media

Inventor Name(s): BARTLEY S L; YODICE R

Patent Assignee(s): BARTLEY S L (BART-Individual); YODICE R (YODI-Individual); LUBRIZOL CORP (LUBR)

30. Patent Number(s): US20100024898 A1, CN101638054A, DE102009026280A1

Title: Fuel tank vent including a membrane separator

Inventor Name(s): Vishal Bansal, Nusrat Farzana

Patent Assignee(s): General Electric Company

31. Patent Number(s): US20080251518 A1, CA2569303A1, DE602006001860D1, EP1861322A1, EP1861322B1, WO2006092562A1

Title: Self-Venting Cover for Heatable Food Package

Inventor Name(s): Gary Tee

Patent Assignee(s): Ffp Packaging Solutions Limited

M91/6 Radovanovic, P. D., Krogseng, G. P., Waller, C. P., Mrozinski, J. S., and Krueger, D. L., US 5993954, "Temperature-sensitive microporous film," 1999. WO1998049225A1. Objavljen i kao WO9849225 (A1), JP2009091583 (A), JP4921446 (B2), JP2001523284 (A), JP4828671 (B2), EP0977801 (A1), EP0977801 (B1), DE69801000 (T2), CN1253572 (A), CN1080280 (C), AU6467198 (A).

Citiran je u 22 patenta:

1. Patent Number(s): US20090274955 A1, CA2615495A1, CA2615495C, CN101223031A, CN101223031B, EP1905586A1, EP1905586A4, EP1905586B1, WO2007010878A1

Title: Multi-layer microporous polyolefin membrane and battery separator

Inventor Name(s): Shintaro Kikuchi, Kotaro Takita, Koichi Kono

Patent Assignee(s): Tonen Chemical Corporation

2. Patent Number(s): WO2015157119 A1

Title: Microporous articles with a three-dimensional porous network of acid-sintered interconnected silica nanoparticles and methods of making the same

Inventor Name(s): Xuan JIANG, Kuan-Yin Lin, Michelle Mok, Naiyong Jing, Derek J. Dehn, Richard J. Pokorny, Ta-Hua Yu, Less «

Patent Assignee(s): 3M Innovative Properties Company

3. Patent Number(s): WO2012174209 A3, CN103608389A, EP2721097A2, EP2721097A4, US20140094076, WO2012174209A2

Title: Microporous materials with fibrillar mesh structure and methods of making and using the same

Inventor Name(s): James S. Mrozinski, H. Todd Freemyer, Kuan-Yin Lin

Patent Assignee(s): 3M Innovative Properties Company

4. Patent Number(s): US20140166774 A1, CA2842823A1, CN103732262A, EP2734242A1, WO2013014078A1

Title: Device for evaporating volatile substances

Inventor Name(s): Cedric Morhain, Walter Sordo, Stefano Deflorian

Patent Assignee(s): Zobe Holding Spa

5. Patent Number(s): US20110195295 A1, CN102105302A, CN102105302B, EP2308674A1, EP2308674A4, EP2308674B1, WO2010013800A1

Title: Laminated microporous film and method for manufacturing the same, and separator for battery

Inventor Name(s): Teruaki Manago, Yoko Azami

Patent Assignee(s): Teruaki Manago, Yoko Azami

6. Patent Number(s): US20100258977 A1, CN101874063A, CN101874063B, EP2220150A1, EP2220150B1, US20130096194, WO2009070630A1

Title: Methods for Forming Microporous and Antimicrobial Articles

Inventor Name(s): Aizoh Sakurai, Kana Saito, Naoyuki Toriumi, James S. Mrozinski

Patent Assignee(s): 3M Innovative Properties Company

7. Patent Number(s): US20070221567 A1, CN101041722A, CN101041722B, US20160043372

Title: Membrane made of a blend of UHMW polyolefins

Inventor Name(s): Donald Simmons, Joseph Yaritz

Patent Assignee(s): Celgard Llc

8. Patent Number(s): US8964146 B2, CN102460125A, CN102460125B, EP2419714A1, US20120038850, WO2010120871A1

Title: Optical film for preventing optical coupling

Inventor Name(s): Encai Hao, William Blake Kolb, John A. Wheatley, Fei Lu, Adam D. Haag

Patent Assignee(s): 3M Innovative Properties Company

9. Patent Number(s): US8950924 B2, CN102648427A, EP2510389A1, US9229149, US20120287677, US20150131311, US20160116664, WO2011071728A1

Title: Optical constructions incorporating a light guide and low refractive index films

Inventor Name(s): John A. Wheatley, Tao Liu, Encai Hao

Patent Assignee(s): 3M Innovative Properties Company

10. Patent Number(s): US8922733 B2, CN102576119A, CN102576119B, EP2491445A1, US20120200801, US20150103507, WO2011050254A1

Title: Light source and display system incorporating same

Inventor Name(s): John A. Wheatley, Tao Liu, Encai Hao, William Blake Kolb, Michael Benton Free

Patent Assignee(s): 3M Innovative Properties Company

11. Patent Number(s): US8906540 B2, CA2723110A1, CN102036813A, CN102036813B, EP2274168A2, EP2274168B1, US20110064990, WO2009132802A2, WO2009132802A3, WO2009132802A8

Title: Micro-porous multi-layer membrane film based on polypropylene for batteries with a cut-off function

Inventor Name(s): Thilo Mohr, Detlef Busch, Bertram Schmitz, Christian Peters

Patent Assignee(s): Treofan Germany Gmbh & Co. Kg

12. Patent Number(s): US8891038 B2, CN102460244A, CN102460244B, EP2419771A2, US20120026431, WO2010120845A2, WO2010120845A3

Title: Lightguide with optical film containing voids and blacklight for display system

Inventor Name(s): William D. Coggio, John A. Wheatley, Tao Liu, Brian W. Ostlie, Encai Hao,

William Blake Kolb, Qingbing Wang, Michael Benton Free, Michael L. Steiner, Scott M. Tapio, Less «

Patent Assignee(s): 3M Innovative Properties Company

13. Patent Number(s): US8534849 B2, CN102458819A, CN102458819B, EP2419265A1, EP2419265A4, US20100265584, WO2010121019A1

Title: Retroreflecting optical construction

Inventor Name(s): William D. Coggio, John S. Huizinga, Michael L. Steiner, Robert F. Watkins, Encai Hao, William B. Kolb, Peiwang Zhu, Michael Benton Free, Brant U. Kolb, Kui Chen-Ho, Paul E. Humpal, Kenneth L. Smith, Scott M. Tapio, Menos «

Patent Assignee(s): 3M Innovative Properties Company

14. Patent Number(s): WO2010078234-A1; WO2010078234-A8

Title: Porous membranes with multiple zones having different pore sizes

Inventor Name(s): HESTER J F; MROZINSKI J S; DEHN D J

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN); DEHN D J (DEHN-Individual)

15. Patent Number(s): JP2004241291-A; JP3863851-B2

Title: Non-aqueous electrolyte battery, used as power source for portable electronic devices, has anode, cathode and separator containing material capable of changing reversibly in between specific states

Patent Assignee(s): SANYO ELECTRIC CO LTD (SAOL)

16. Patent Number(s): JP2004241290-A; JP3863850-B2

Title: Non-aqueous electrolyte battery, for portable electronic device, has polymer sheet containing material which is capable of reversibly changing lithium ion permeating state to lithium ion non-permeating state

Patent Assignee(s): SANYO ELECTRIC CO LTD (SAOL)

17. Patent Number(s): EP1251573-A2; US2003118896-A1; JP2002319386-A; JP2002367587-A; JP3680759-B2; JP3794283-B2; US2006222936-A1; US7138207-B2; EP1251573-A3; US7867649-B2

Title: Non-aqueous electrolyte secondary cell

Inventor Name(s): YAMAGUCHI A; OMARU A; NAGAMINE M

Patent Assignee(s): SONY CORP (SONY); YAMAGUCHI A (YAMA-Individual); OMARU A (OMARIndividual); NAGAMINE M (NAGA-Individual)

18. Patent Number(s): US2003157408-A1; US6998193-B2

Title: Microporous membrane and its uses thereof

Inventor Name(s): SUN L

Patent Assignee(s): SUN L (SUNL-Individual); POLICELL TECHNOLOGIES INC (POLI-Non-standard)

19. Patent Number(s): WO200185837-A; EP1360231-A; WO200185837-A2; AU200157340-A; BR200110707-A; KR2002092471-A; HU200301774-A2; CZ200203635-A3; EP1360231-A2; JP2004501231-W; MX2002011070-A1; US2004106735-A1; TW575623-A; US6875813-B2; CN1620477-A; RU2266932-C2; AU2001257340-A8

Title: Isobutylene-based elastomer blends

Inventor Name(s): TSOU A H; DUVDEVANI I; WANG H; WANG H C

Patent Assignee(s): EXXONMOBIL CHEM PATENTS INC (ESSO); TSOU A H (TSOU-Individual); DUVDEVANI I (DUVD-Individual); WANG H (WANG-Individual)

20. Patent Number(s): WO200116229-A; EP1228142-A; WO200116229-A1; AU200061122-A; EP1228142-A1; KR2002027593-A; US6461724-B1; JP2003508571-W; EP1228142-B1; DE60026034-E; DE60026034-T2; KR648577-B1

Title: Microporous material resistant to capillary collapse
Inventor Name(s): RADOVANOVIC P D; PEREZ M A; THOMAS S D
Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

21. Patent Number(s): EP1047141-A2; CA2301453-A1; JP2000340207-A; CN1271184-A; KR2000071722-A; US6346350-B1; SG97881-A1

Title: Battery Structurally stable fusible battery separators and method of making same
Inventor Name(s): CALL R W; COOK P C; HUX S E; NGUYEN K V; YU W; VAN NGUYEN K
Patent Assignee(s): CELGARD INC (CELG-Non-standard)

22. Patent Number(s): WO200034384-A; EP1157067-A; WO200034384-A1; KR2000038611-A; EP1157067-A1; CN1329638-A; JP2002531669-W; KR371398-B; EP1157067-B1; DE69915380-E; JP3639535-B2; CN1170877-C; US2006188786-A1

Title: Separator for secondary battery and porous film made of polyolefin blend and process for preparing the same
Inventor Name(s): LEE S; AHN B; SONG H; KIM M; AHN B I; KIM M M; LEE S Y; SONG H S
Patent Assignee(s): LG CHEM LTD (GLDS); LG CHEM CO LTD (GLDS); LEE S (LEES-Individual); AHN B (AHNB-Individual); SONG H (SONG-Individual); KIM M (KIMM-Individual)

M91/7 Radovanovic, P. D. and Thomas, S. D., <i>US 6096213</i>, "Puncture-resistant polyolefin membranes," 2000. Objavljen je i kao WO0009597 (A1), JP2002522610 (A), JP4755339 (B2), EP1105436 (A1), EP1105436 (B1), DE69911624 (T2), CA2338549 (A1)
--

Citiran je u 69 patenata.

1. Patent Number(s): WO2012174209 A3, CN103608389A, EP2721097A2, EP2721097A4, US20140094076, WO2012174209A2
Title: Microporous materials with fibrillar mesh structure and methods of making and using the same
Inventor Name(s): James S. Mrozinski, H. Todd Freemyer, Kuan-Yin Lin
Patent Assignee(s): 3M Innovative Properties Company

2. Patent Number(s): WO2010147798 A2, CN102458622A, CN102458622B, EP2442895A2, EP2442895A4, EP2442895B1, US8951677, US20120088149, WO2010147798A3
Title: Microporous membranes, methods for making such membranes, and the use of such membranes as battery separator film
Inventor Name(s): Takeshi Ishihara, Satoshi Miyaoka, Koichi Kono, Patrick Brant
Patent Assignee(s): Toray Tonen Specialty Separator Godo Kaisha, Exxonmobil Chemical Patents Inc.

3. Patent Number(s): US20070232709 A1, CN101223217A, CN101223217B, CN102276871A, EP1882005A1, EP1882005A4, US8323547, WO2006123850A1
Title: Microporous polyethylene film manufactured according to liquid-liquid phase separation and methods of producing the same
Inventor Name(s): Young-Keun Lee, Jang-Weon Rhee, Jung-Moon Sung, Byoung-Cheon Jo, Chol-Ho Lee, Gwi-Gwon Kang, In-Hwa Jung, Je-An Lee, Menos «
Patent Assignee(s): Sk Corporation

4. Patent Number(s): US20070221567 A1, CN101041722A, CN101041722B, US20160043372

Title: Membrane made of a blend of UHMW polyolefins

Inventor Name(s): Donald Simmons, Joseph Yaritz

Patent Assignee(s): Celgard Llc

5. Patent Number(s): WO2007073019 A1, CN101309954A, CN101309954B, EP1963408A1, EP1963408A4, US20070138681, US20070138682

Title: Microporous film of semicrystalline polymers and method for preparing the same

Inventor Name(s): Young-Keun Lee, Jang-Weon Rhee, Gwi-Gwon Kang, In-Hwa Jung, Je-An Lee

Patent Assignee(s): Sk Energy Co., Ltd.

6. Patent Number(s): US20070092705 A1

Title: Microporous polyethylene film through liquid-liquid phase separation mechanism and preparing method thereof

Inventor Name(s): Young-Keun Lee, Jang-Weon Rhee, Jung-Moon Sung, Byoung-Cheon Jo, Chol-Ho Lee, Gwi-Gwon Kang, In-Hwa Jung, Je-An Lee, Menos «

Patent Assignee(s): Young-Keun Lee, Jang-Weon Rhee, Jung-Moon Sung, Byoung-Cheon Jo, Chol-Ho Lee, Gwi-Gwon Kang, In-Hwa Jung, Je-An Lee, Menos «

7. Patent Number(s): US20050087487 A1, DE10348876A1, DE10348876B4, US7141168

Title: Porous polyolefin membrane

Inventor Name(s): Hideshi Sakamoto, Junichi Yamauchi, Takashi Shimpuku

Patent Assignee(s): Hideshi Sakamoto, Junichi Yamauchi, Takashi Shimpuku

8. Patent Number(s): US9203072 B2, CN101014649A, CN101014649B, EP1785451A1, EP1785451A4, US20080096102, WO2006025323A1

Title: Microporous polyolefin film and separator for storage cell

Inventor Name(s): Hiroshi Hatayama, Hiroshi Sogo

Patent Assignee(s): Asahi Kasei Chemicals Corporation

9. Patent Number(s): US9022224 B2, CN103118766A, CN103118766B, EP2618916A1, US20120074053, US20150122715, WO2012040412A1

Title: Fluid control manifold for membrane filtration system

Inventor Name(s): Michael Collignon, Bruce Gregory Biltoft

Patent Assignee(s): Evoqua Water Technologies Llc

10. Patent Number(s): US20110056522 A1, US8956464, WO2010142673A1

Title: Method of cleaning membranes

Inventor Name(s): Peter Zauner, Fufang Zha

Patent Assignee(s): Peter Zauner, Fufang Zha

11. Patent Number(s): US8858796 B2, CA2618107A1, CN101287538A, CN101287538B, EP1945333A1, EP1945333A4, EP1945333B1, US8894858, US20080190846, US20140326682, WO2007022576A1

Title: Assembly for water filtration using a tube manifold to minimise backwash (Method and assembly for water filtration using a tube manifold to minimize backwash)

Inventor Name(s): David John Cox, Warren Thomas Johnson

Patent Assignee(s): Evoqua Water Technologies Llc

12. Patent Number(s): US8846253 B2, CN102458842A, CN102458842B, CN102802771A, CN102802771B, CN102802945A, CN102804450A, CN102804450B, EP2442896A2, EP2442896A4, EP2442896B1, EP2442981A2, EP2442981A4, EP2442981B1, EP2443685A2, EP2443685A4, EP2443685B1, EP2461974A2, EP2461974A4, US8338020, US8841032, US9203071, US20120070748, US20120077072, US20120077073, US20120082899, WO2010147799A2, WO2010147799A3, WO2010147800A2, WO2010147800A3, WO2010147801A2, WO2010147801A3, WO2010147802A2, WO2010147802A3

Title: Microporous membranes, methods for making these membranes, and the use of these membranes as battery separator films (Multi-layer microporous film)

Inventor Name(s): Takeshi Ishihara, Satoshi Miyaoka, Koichi Kono, Patrick Brant

Patent Assignee(s): Toray Battery Separator Film Co., Ltd.

13. Patent Number(s): US8834656 B2, US20130299060

Title: Manufacturing method of porous composite film

Inventor Name(s): Chien-Chih Chen, Yu-Wei Chang, Chia-Yin Yao, Jui-Lin Hsu, Ming-Cheng Tsai

Patent Assignee(s): Entire Technology Co., Ltd.

14. Patent Number(s): US8808540 B2, CA2544626A1, CA2544626C, CN1894021A, CN100421772C, EP1687078A1, EP1687078A4, EP1687078B1, US20070075021, US20090107916, WO2005046849A1

Title: Module cleaning method

Inventor Name(s): Warren Thomas Johnson

Patent Assignee(s): Evoqua Water Technologies Llc

15. Patent Number(s): US8790515 B2, CA2579168A1, CA2579168C, CN101043933A, CN101043933B, EP1807180A1, EP1807180A4, EP1807180B1, US20070227973, WO2006026814A1

Title: Reduction of backwash liquid waste

Inventor Name(s): Fufang Zha, Zhiyi Cao

Patent Assignee(s): Evoqua Water Technologies Llc

16. Patent Number(s): US8758622 B2, CA2591580A1, CN100546701C, CN101087642A, EP1838422A1, EP1838422A4, US20100000941, WO2006066350A1

Title: Simple gas scouring method and apparatus

Inventor Name(s): Joachim Muller

Patent Assignee(s): Evoqua Water Technologies Llc

17. Patent Number(s): US8758621 B2, US20070181496, WO2005092799A1

Title: Process and apparatus for purifying impure water using microfiltration or ultrafiltration in combination with reverse osmosis

Inventor Name(s): Joseph Edward Zuback

Patent Assignee(s): Evoqua Water Technologies Llc

18. Patent Number(s): US8652331 B2, CA2734796A1, CN102123784A, EP2315625A1, EP2315625A4, US20110139715, WO2010021959A1

Title: Membrane system backwash energy efficiency

Inventor Name(s): Fufang Zha, Zhiyi Cao

Patent Assignee(s): Siemens Water Technologies Llc

19. Patent Number(s): US8524794 B2, CA2571502A1, EP1773477A1, EP1773477A4, EP1773477B1, US20080058440, WO2006002479A1

Title: Hydrophilic membranes

Inventor Name(s): Heinz-Joachim Muller, Daniel Mullette

Patent Assignee(s): Siemens Industry, Inc.

20. Patent Number(s): US8518256 B2, CN1298413C, CN1500001A, DE60217848D1, DE60217848T2, EP1385605A1, EP1385605A4, EP1385605B1, US6974554, US7931463, US20050087898, US20060110486, US20110192783, WO2002081065A1

Title: Membrane module

Inventor Name(s): David John Cox, Fufang Zha, Joachim Muller, Cinzia Lea, George Schneider

Patent Assignee(s): Siemens Industry, Inc.

21. Patent Number(s): US8512568 B2, CA2456479A1, CA2456479C, CN1551796A, CN1551796B, DE60238991D1, EP1420874A1, EP1420874A4, EP1420874B1, US20040217053, US20090223895, WO2003013706A1

Title: Method of cleaning membrane modules

Inventor Name(s): Fufang Zha, Anthony James Stubbs

Patent Assignee(s): Siemens Industry, Inc.

22. Patent Number(s): US8506806 B2, CA2579857A1, CN101039739A, CN101039739B, EP1799334A1, EP1799334A4, EP1799334B1, US20080053923, US20130299411, WO2006029456A1

Title: Methods and apparatus for removing solids from a membrane module

Inventor Name(s): Thomas William Beck, Warren Thomas Johnson

Patent Assignee(s): Siemens Industry, Inc.

23. Patent Number(s): US8496828 B2, CA2591408A1, CA2591408C, CN100548451C, CN101098746A, CN101623599A, CN101623599B, EP1835985A1, EP1835985A4, EP1835985B1, EP2394731A1, US20080203016, US20110114557, US20110114557, US20130334136, WO2006066319A1

Title: Cleaning in membrane filtration systems

Inventor Name(s): Warren Thomas Johnson, Thomas William Beck, Rebecca Yeo

Patent Assignee(s): Siemens Industry, Inc.

24. Patent Number(s): US8460829 B1

Title: Porous polymer separator layer having a non-uniform cross-sectional thickness for use in a secondary liquid-electrolyte battery

Inventor Name(s): Xiaosong Huang, Hamid G. Kia, Mark W. Verbrugge

Patent Assignee(s): GM Global Technology Operations LLC

25. Patent Number(s): US8382981 B2, CA2731774A1, CN102112213A, EP2331242A1, EP2331242A4, US9023206, US20110127209, US20130186817, WO2010009518A1

Title: Frame system for membrane filtration modules

Inventor Name(s): Peter Rogers, Stephen Bowmer, Bruce Gregory Biltoft, James W. Polson, Robert James McMahon, Huw Alexander Lazaredes, Michael Collignon

Patent Assignee(s): Siemens Industry, Inc.

26. Patent Number(s): US8377305 B2, CA2579894A1, CN100548452C, CN101039740A, EP1807181A1, EP1807181A4, US20080156745, WO2006029465A1

Title: Continuously variable aeration

Inventor Name(s): Fufang Zha, Warren Thomas Johnson, Thomas William Beck, Roger William Phelps, Etienne Ulysse Brois,

Patent Assignee(s): Siemens Industry, Inc.

27. Patent Number(s): US8372545 B2, US20120094167

Title: Separator for non-aqueous lithium-ion battery

Inventor Name(s): Garrin Samii, Abbas Samii, Banafsheh Behnam, David Veno

Patent Assignee(s): Advanced Membrane Systems, Inc.

28. Patent Number(s): WO2004050221 A1, CA2508423A1, CA2508423C, CN1735452A, CN1735452B, DE60336841D1, EP1567249A1, EP1567249A4, EP1567249B1, US8372282, US20070007214

Title: Mixing chamber

Inventor Name(s): Fufang Zha, Roger William Phelps, Etienne Ulysse Brois

Patent Assignee(s): U.S. Filter Wastewater Group, Inc.

29. Patent Number(s): US8323547 B2, CN101223217A, CN101223217B, CN102276871A, EP1882005A1, EP1882005A4, US20070232709, WO2006123850A1

Title: Microporous polyethylene film manufactured according to liquid-liquid phase separation and method of producing the same

Inventor Name(s): Young-Keun Lee, Jang-Weon Rhee, Jung-Moon Sung, Byoung-Cheon Jo, Chol-Ho Lee, Gwi-Gwon Kang, In-Hwa Jung, Je-An Lee

Patent Assignee(s): Sk Innovation Co., Ltd.

30. Patent Number(s): US8304113 B2, US20110171523, US20130065132

Title: Polyolefin and ceramic battery separator for non-aqueous battery applications

Inventor Name(s): Garrin Samii, Banafsheh Behnam, David Veno, Abbas Samii

Patent Assignee(s): Advanced Membrane Systems, Inc.

31. Patent Number(s): US 8663868 B2; CN1867622A, CN1867622B, DE602004026337D1, EP1678245A1, EP1678245B1, US7338692, US8962214, US20050058821, US20080113242, US20140134518, WO2005035641A1

Title: Microporous PVDF films

Inventor Name(s): Samantha D. Smith, Gene H. Shipman, Robert M. Floyd, Harold Todd Freemyer, Steven J. Hamrock, Michael A. Yandrasits, David G. S. Walton, Weniger

Patent Assignee(s): 3M Innovative Properties Company

32. Patent Number(s): US20030104192 A1; EP1453762A1, US7140495, WO2003051782A1

Title: Apparatus for substantial removal of organic substance(s) and/or nitrogen source(s) from an aqueous medium

Inventor: Jonathan Hester, Brian Spiewak, David Holm, Jerald Hall, Seth Kirk, Moses David, Brinda Lakshmi

Patent Assignee(s): 3M Innovative Properties Company

33. Patent Number(s): US8293098 B2, US20100191377, WO2008051546A2, WO2008051546A3

Title: Infiltration/inflow control for membrane bioreactor

Inventor Name(s): George W. Smith, Dennis J. Barnes

Patent Assignee(s): Siemens Industry, Inc.

34. Patent Number(s): US8287743 B2, CA2688455A1, CA2822316A1, CN101790411A,

CN101790411B, CN103055703A, DE202008018516U1, EP2152390A1, EP2152390B1, EP2389998A1, EP2463017A1, EP2875857A1, US8372276, US8622222, US8840783, US9206057, US20110100907, US20110198283, US20120061333, US20130153496, US20140083940, US20140158618, WO2008153818A1

Title: Membrane cleaning with pulsed airlift pump (Water treatment membrane cleaning with pulsed airlift pump)

Inventor Name(s): Fufang Zha, Gerin James, Edward Joseph Zuback, Peter Zauner, Roger Phelps

Patent Assignee(s): Siemens Industry, Inc.

35. Patent Number(s): US8268176 B2, CA2535360A1, CA2535360C, CN103285737A,

CN103285737B, EP1677898A1, EP1677898A4, EP1677898B1, US20070007205, WO2005021140A1

Title: Backwash

Inventor Name(s): Warren Thomas Johnson, Thomas William Beck, Fufang Zha, Huw Alexander Lazaredes, Zhiyi Cao

Patent Assignee(s): Siemens Industry, Inc.

36. Patent Number(s): US8182687 B2, CA2488895A1, CA2488895C, CN1662295A, CN100503018C,

DE60333755D1, EP1517742A1, EP1517742A4, EP1517742B1, US7160463, US7344645, US20050145556, US20060266706, US20080179249, WO2003106004A1

Title: Methods of minimising the effect of integrity loss in hollow fibre membrane modules

Inventor Name(s): Thomas William Beck, Warren Thomas Johnson

Patent Assignee(s): Siemens Industry, Inc.

37. Patent Number(s): US8057718 B2, CN101184796A, CN101184796B, EP1907458A1,

EP1907458A4, EP1907458B1, US20060228540, US20070116944, WO2006107125A1

Title: Microporous polyethylene film having excellent physical properties, productivity, and quality consistency, and method of producing same

Inventor Name(s): Young Keun Lee, Jang Weon Rhee, Jung Moon Sung, Byoung Cheon Jo, Chol Ho Lee

Patent Assignee(s): Sk Innovation Co., Ltd.

38. Patent Number(s): US8048306 B2, CA2275146A1, CA2275146C, CA2551202A1, CA2551202C, CA2639642A1, CA2639642C, CN1134286C, CN1244814A, DE69740003D1, EP0952885A1, EP0952885A4, EP0952885B1, EP1736234A2, EP1736234A3, US6555005, US6969465, US20020195390, US20030178365, US20040084369, US20040145076, US20040168979, US20040178154, US20060000775, US20060131234, WO1998028066A1

Title: Scouring method

Inventor Name(s): Fufang Zha, Clinton V. Kopp, Robert J. McMahon, Warren T. Johnson, Thomas W. Beck

Patent Assignee(s): Siemens Industry, Inc.

39. Patent Number(s): US7988891 B2, CA2614498A1, CN101222972A, CN101222972B, EP1901835A1, EP1901835A4, EP1901835B1, US20080203018, WO2007006104A1

Title: Monopersulfate treatment of membranes

Inventor Name(s): Heinz-Joachim Muller, Dongliang Wang, Nina Elbaz

Patent Assignee(s): Siemens Industry, Inc.

40. Patent Number(s): US7938966 B2, CA2501628A1, CA2501628C, EP1551535A1, EP1551535A4, EP1551535B1, US20060000774, WO2004033078A1

Title: Backwash method

Inventor Name(s): Warren Thomas Johnson

Patent Assignee(s): Siemens Water Technologies Corp.

41. Patent Number(s): US7931463 B2, CN1298413C, CN1500001A, DE60217848D1, DE60217848T2, EP1385605A1, EP1385605A4, EP1385605B1, US6974554, US8518256, US20050087898, US20060110486, US20110192783, WO2002081065A1

Title: Apparatus for potting membranes

Inventor Name(s): David John Cox, Georg Schnieder, Fufang Zha, Joachim Muller, Cinzia Lea

Patent Assignee(s): Siemens Water Technologies Corp.

42. Patent Number(s): US7872086 B2, US8008417, US20090186279, US20110086276

Title: Polymeric material and its manufacture and use

Inventor Name(s): Patrick Brant, Jeffrey L. Brinen, Zerong Lin, Koichi Kono, Kohtaro Kimishima, Hiroyuki Ozaki

Patent Assignee(s): Tonen Chemical Corporation

43. Patent Number(s): US7867417 B2, CA2588675A1, CN101084057A, CN101084057B, EP1827664A1, EP1827664A4, EP1827664B1, US20090230053, WO2006058384A1

Title: Membrane post treatment

Inventor Name(s): Daniel Mullette

Patent Assignee(s): Siemens Water Technologies Corp.

44. Patent Number(s): US7722769 B2, US7718057, US20070138090, US20080264855, US20090026120, WO2007044415A2, WO2007044415A3

Title: Method for treating wastewater

Inventor Name(s): Edward J. Jordan, Wenjun Liu

Patent Assignee(s): Siemens Water Technologies Corp.

45. Patent Number(s): US7718065 B2, CA2564007A1, CA2564007C, CN101426565A, CN101426565B, EP1747058A2, EP1747058A4, EP2380854A2, EP2380854A3, US7387723, US20060201876, US20090020475, WO2005107929A2, WO2005107929A3

Title: Filtration method and apparatus

Inventor Name(s): Edward John Jordan

Patent Assignee(s): Siemens Water Technologies Corp.

46. Patent Number(s): US8834686 B2, CN101171360A, CN101171360B, EP1885905A2, US7666494, US8062701, US20060251874, US20100108494, US20100112199, WO2006118903A2, WO2006118903A3

Title: Microporous article having metallic nanoparticle coating (Method of transferring nanoparticles using a microporous article having metallic nanoparticle coating)

Inventor Name(s): Donald J. McClure, Mario A. Perez

Patent Assignee(s): 3M Innovative Properties Company

47. Patent Number(s): US7947752 B2, EP1765920A1, EP1765920A4, EP1765920B1, US7332531, US20050277702, US20080139681, WO2005121228A1

Title: Method of producing microporous high density polyethylene film (Microporous high density polyethylene film and method of producing the same)

Inventor Name(s): Young Keun Lee, Jang Weon Rhee, Won Young Cho, Jung Moon Sung, Byoung Cheon Jo, Chol Ho Lee, In Hwa Jung, Byung Rae Jung

Patent Assignee(s): Sk Energy Co., Ltd.

48. Patent Number(s): US20090274955 A1, CA2615495A1, CA2615495C, CN101223031A, CN101223031B, EP1905586A1, EP1905586A4, EP1905586B1, WO2007010878A1

Title: Multi-layer microporous polyolefin membrane and battery separator

Inventor Name(s): Shintaro Kikuchi, Kotaro Takita, Koichi Kono

Patent Assignee(s): Tonen Chemical Corporation

49. Patent Number(s): US7041742 B2, CN1701084A, EP1543060A2, US7053154, US20040110881, US20040116560, WO2004029146A2, WO2004029146A3, WO2004029149A1

Title: Impact modified thermoplastic olefin compositions

Inventor Name(s): Ann M. Panek, Anna C. Andrews, Haleh Ayrom-Keuchel, Paul J. DeFranco, Robert J. Opalko

Patent Assignee(s): Ferro Corporation

50. Patent Number(s): WO2010108148-A1

Title: Freestanding, heat resistant microporous film for use in energy storage devices

Inventor Name(s): CHERUKUPALLI S; PEKALA R W; WATERHOUSE R W

Patent Assignee(s): AMTEK RES INT (AMTE-Non-standard)

51. Patent Number(s): WO2009077481-A1; EP2231314-A1; US2010260990-A1; CN101903083-A
Title: Membranes

Inventor Name(s): CREDALI U; FELISATI A; LUNGHI L; MEDRI A; LUNGHI L, IT; MEDRI A, IT; CREDALI U, IT; FELISATI A, IT

Patent Assignee(s): BASELL POLIOLEFINE ITAL SRL (BASE); BASELL POLIOLEFINE SRL (BASENon-standard)

52. Patent Number(s): WO2007044415-A2; US2007138090-A1; US2008264855-A1; US2009026120-A1;

US7718057-B2; US7722769-B2

Title: Wastewater treatment system

Inventor Name(s): JORDAN E J; LIU W

Patent Assignee(s): SIEMENS WATER TECHNOLOGIES CORP (SIEI); JORDAN E J (JORD-Individual); LIU W (LIUW-Individual)

53. Patent Number(s): US2006278311-A1; US7628187-B2

Title: Carrying bag with overskirt

Inventor Name(s): MITTELSTAEDT M A

Patent Assignee(s): MITTELSTAEDT M A (MITT-Individual)

54. Patent Number(s): WO2006017911-A1; EP1789164-A1; AU2005274614-A1; IN200701487-P1; CN101052457-A; JP2008510598-W; US2008210623-A1; AU2005274614-B2; US7862719-B2; NZ553178-A

Title: Square membrane manifold system

Inventor Name(s): MCMAHON R J; COX D J; ZHA F; PHELPS R W; JOHNSON W T; BARKHO S; MCMAHON R; COX D; PHELPS R; JOHNSON W; JOHN C D; FUFANG Z

Patent Assignee(s): US FILTER WASTEWATER GROUP INC (USFI); SIEMENS WATER TECHNOLOGIES CORP (SIEI); MCMAHON R J (MCMA-Individual); COX D J (COXD-Individual); ZHA F (ZHAFIndividual); PHELPS R W (PHEL-Individual); JOHNSON W T (JOHN-Individual); BARKHO S (BARKIndividual)

55. Patent Number(s): WO2006002469-A1; EP1773476-A1; AU2005259830-A1; US2007157812-A1; IN200700214-P1; CN1988949-A; JP2008504122-W; US7819956-B2; AU2005259830-B2

Title: Gas transfer membrane

Inventor Name(s): MULLER H

Patent Assignee(s): US FILTER WASTEWATER GROUP INC (USFI); MULLER H (MULL-Individual); SIEMENS WATER TECHNOLOGIES CORP (SIEI)

56. Patent Number(s): US2006009538-A1; WO2006004314-A1; KR2006003800-A; KR611888-B1; EP1781726-A1; CN1997692-A; JP2008506003-W; US7435761-B2; EP1781726-B1; DE602005022731-E; CN1997692-B, US20060008636, US20090023825

Title: Microporous polyethylene film and method of producing the same

Inventor Name(s): LEE Y K; RHEE J W; CHO W Y; SUNG J M; JO B C; LEE C H; JUNG I H; JUNG B R

Patent Assignee(s): LEE Y K (LEEY-Individual); RHEE J W (RHEE-Individual); CHO W Y (CHOWIndividual); SUNG J M (SUNG-Individual); JO B C (JOBC-Individual); LEE C H (LEEC-Individual); JUNG I H (JUNG-Individual); JUNG B R (JUNG-Individual); SK CORP (SKSK); SK ENERGY CO LTD (SKSK)

57. Patent Number(s): US2005158001-A1; WO2006073992-A1; US7207732-B2; EP1836140-A1;

CN101094819-A; JP2008527420-W

Title: Coated optical fiber and curable compositions suitable for coating optical fiber

Inventor Name(s): FABIAN M D; FEWKES E J; GLAESEMANN G S

Patent Assignee(s): FABIAN M D (FABI-Individual); FEWKES E J (FEWK-Individual); GLAESEMANN G S (GLAE-Individual); CORNING INC (CORG)

58. Patent Number(s): US20040248108-A1; WO2005004191-A2; EP1634318-A2; BR200411129-A; MX2005013277-A1; KR2006017855-A; JP2007503592-W; US7462494-B2, US20090069177 A1

Title: Method for laser desorption mass spectrometry using porous polymeric substrates with particle fillers (Laser desorption substrate)

Inventor Name(s): LAKSHMI B B; CHONG C B E; CHONG CONKLIN B E; CONKLIN B E C

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

59. Patent Number(s): WO2004035180-A1; AU2003301399-A1; EP1552878-A1; US2006016748-A1; JP2005501354-X; CN1705505-A; KR2005056245-A; IN200500927-P2; AU2003301399-B2; KR668573-B1; IN200702844-P2; CA2502577-C; US7459085-B2; IN234018-B; CN1705505-B

Title: Microporous hydrophilic membrane

Inventor Name(s): KOGUMA I; NAGOYA F; FUJIHARU N; ICHIRO K

Patent Assignee(s): ASAHI KASEI PHARMA CORP (ASAH); KOGUMA I (KOGU-Individual); NAGOYA F (NAGO-Individual); ASAHI KASEI MEDICAL CO LTD (ASAH)

60. Patent Number(s): WO2003068374-A; WO2003068374-A1; AU2003245463-A1; EP1474222-A1; KR2004094683-A; US2005098494-A1; JP2005516764-W; CN1638851-A; NZ535133-A; IN200402188-P1; US7247238-B2; US2007216057-A1; AU2008227080-A1; AU2003245463-B2; CN100500272-C; US7632439-B2; KR991596-B1; JP4656839-B2; EP1474222-B1; CA2733826-A1; AU2008227080-B2

Title: Halar membranes

Inventor Name(s): MULLETTE D; MULLER H; MULLER H J

Patent Assignee(s): US FILTER WASTEWATER GROUP INC (USFI); MULLETTE D (MULL-Individual); MULLER H (MULL-Individual); SIEMENS WATER TECHNOLOGIES CORP (SIEI)

61. Patent Number(s): US2003104192-A1; WO2003051782-A1; AU2002334979-A1; EP1453762-A1; KR2004066162-A; JP2005511303-W; US7140495-B2; JP4680504-B2

Title: Layered sheet construction for wastewater treatment

Inventor Name(s): HESTER J F; SPIEWAK B E; HOLM D R; HALL J W; KIRK S M; DAVID M M; LAKSHMI B B

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN); 3M INNOVATIVE PROPERTIES (MINN)

62. Patent Number(s): EP1316356-A2; CA2408718A1, CN1263795C, CN1424348A, EP1316356A3, US20030104236

Title: Diffusion membrane

Inventor Name(s): NGUYEN K V; SIMMONS D K; CALL R W; HUX S E; NIGAEN K V; SYMONS D K; CARL R W

Patent Assignee(s): CELGARD INC (CELG-Non-standard); CELGARD CORP (CELG-Non-standard); SKYDE CORP (SKYD-Non-standard)

63. Patent Number(s): WO2003026779-A; WO2003026779-A1; US2004023017-A1; EP1413350-A1; KR2004030896-A; AU2002313906-A1; JP2003530408-X; CN1545433-A; IN200400103-P2; CN1265868-C; US7140496-B2; CA2456170-C; KR805977-B1; IN214982-B; JP4531395-B2

Title: Multilayer microporous membrane

Inventor Name(s): NAGOYA F; KOGUMA I

Patent Assignee(s): ASAHI KASEI KK (ASAH); NAGOYA F (NAGO-Individual); KOGUMA I (KOGUIndividual); ASAHI KASEI PHARMA CORP (ASAH); ASAHI CHEM IND CO LTD (ASAH); ASAHI KASEI MEDICAL CO LTD (ASAH)

64. Patent Number(s): WO2003035232-A; US2002132107-A1; WO2003035232-A1; EP1436071-A1; AU2002320534-A1

Title: Porous polyethylene membrane

Inventor Name(s): O'BRIEN J J; PIP H J; ROGERS AGENT R; OBRIEN J J

Patent Assignee(s): O'BRIEN J J (OBRI-Individual); PIP H J (PIPH-Individual); ROGERS AGENT R (AGEN-Individual); EXXONMOBIL OIL CORP (ESSO)

65. Patent Number(s): WO2002102500-A; WO2002102500-A1; AU2002311089-A1; US2004191894-A1; US7226541-B2

Title: Membrane polymer compositions

Inventor Name(s): MULLER H; MULLETTE D

Patent Assignee(s): US FILTER WASTEWATER GROUP INC (USFI); MULLER H (MULL-Individual); MULLETTE D (MULL-Individual); SIEMENS WATER TECHNOLOGY CORP (SIEI)

66. Patent Number(s): WO2002103835-A; WO2002103835-A1; EP1402592-A1; US2004163235-A1; TW579615-A; JP2004531035-W; CN1582513-A; IN200300299-P4; IN234357-B

Title: Method of manufacturing a lithium battery as well as a lithium battery

Inventor Name(s): FEIL H; HACK M; HACK M J J

Patent Assignee(s): KONINK PHILIPS ELECTRONICS NV (PHIG); HACK M J J (HACK-Individual); FEIL H (FEIL-Individual)

67. Patent Number(s): WO200238256-A; EP1349644-A; WO200238256-A1; AU200214802-A; EP1349644-A1; US2004035782-A1; KR2003084898-A; JP2004523338-W; US2005029185-A1; US2005029186-A1; US2005032982-A1; US6884350-B2; CN1633329-A; IN200300721-P1; AU2002214802-B2; US7300022-B2; US7404896-B2; KR903804-B1; IN222005-B; JP4355493-B2; CN100518911-C; EP1349644-B1; CA2428457-C; DE60142408-E

Title: Modified membranes

Inventor Name(s): MULLER H; FLOYD E

Patent Assignee(s): USF FILTRATION & SEPARATIONS GROUP INC (USFI); FLOYD E (FLOYIndividual); MULLER H (MULL-Individual); US FILTER WASTEWATER GROUP INC (USFI); SIEMENS WATER TECHNOLOGIES CORP (SIEI); SIEMENS WATER TECHNOLOGIES (SIEI)

68. Patent Number(s): WO200128667-A; EP1230970-A; WO200128667-A1; AU200079519-A; EP1230970-A1; JP2001531491-X; AU771197-B2; CA2388246-C; TW581709-A; EP1230970-B1; DE60029239-E; ES2267574-T3; DE60029239-T2; JP3979521-B2; US7635513-B1

Title: Heat resistant microporous film

Inventor Name(s): HOSHUYAMA I; NAGOYA F; KOGUMA I

Patent Assignee(s): ASAHI KASEI KOGYO KK (ASAHI); ASAHI KASEI PHARMA CORP (ASAHI); ASAHI KASEI KK (ASAHI); ASAHI KASEI MEDICAL CO LTD (ASAHI); ASAHI MEDICAL CO LTD (ASAHI)

69. Patent Number(s): CA2292007-A1; US6773797-B1; MX2000000473-A1; MX233068-B

Title: Extruded poly (ethylene oxide) and filler composites and films having enhanced ductility and breathability

Inventor Name(s): TOPOLKARAEV V; WANG J H; SCHERTZ D M; SOERENS D A; TOPOLKARAEV V A

Patent Assignee(s): KIMBERLY-CLARK WORLDWIDE INC (KIMB)

M91/8 Radovanovic, P. D., Perez, M. A., and Thomas, S. D., *US 6461724*, "Microporous material resistant to capillary collapse," 2002. Objavljen je i kao WO0116229 (A1), JP 2003508571 (A), JP 4917228 (B2), EP 1228142 (A1, B1), DE 60026034 (T2), AU 6112200 (A).

Citiran je u 9 patenata.

1. Patent Number(s): US20070259256 A1, CA2586046A1, EP1820040A1, EP1820040A4, WO2006056076A1

Title: Systems and methods for detecting and indicating fault conditions in electrochemical cells

Inventor Name(s): Jean-Marc Le Canut, Rami Abouatallah

Patent Assignee(s): Jean-Marc Le Canut, Abouatallah Rami M

2. Patent Number(s): US20040091759 A1, CA2485880A1, CN1705890A, EP1509779A2, WO2003098769A2, WO2003098769A3

Title: Methods and apparatus for indicating a fault condition in fuel cells and fuel cell components

Inventor Name(s): David Harrington, Walter Roberto Donis

Patent Assignee(s): Harrington David Athol, Donis Walter Roberto Merida

3. Patent Number(s): US8964146 B2, CN102460125A, CN102460125B, EP2419714A1, US20120038850, WO2010120871A1

Title: Optical film for preventing optical coupling

Inventor Name(s): Encai Hao, William Blake Kolb, John A. Wheatley, Fei Lu, Adam D. Haag

Patent Assignee(s): 3M Innovative Properties Company

4. Patent Number(s): US8950924 B2, CN102648427A, EP2510389A1, US9229149, US20120287677, US20150131311, US20160116664, WO2011071728A1

Title: Optical constructions incorporating a light guide and low refractive index films

Inventor Name(s): John A. Wheatley, Tao Liu, Encai Hao

Patent Assignee(s): 3M Innovative Properties Company

- 5. Patent Number(s):** US8922733 B2, CN102576119A, CN102576119B, EP2491445A1, US20120200801, US20150103507, WO2011050254A1
Title: Light source and display system incorporating same
Inventor Name(s): John A. Wheatley, Tao Liu, Encai Hao, William Blake Kolb, Michael Benton Free
Patent Assignee(s): 3M Innovative Properties Company
- 6. Patent Number(s):** US8891038 B2, CN102460244A, CN102460244B, EP2419771A2, US20120026431, WO2010120845A2, WO2010120845A3
Title: Lightguide with optical film containing voids and backlight for display system
Inventor Name(s): William D. Coggio, John A. Wheatley, Tao Liu, Brian W. Ostlie, Encai Hao, William Blake Kolb, Qingbing Wang, Michael Benton Free, Michael L. Steiner, Scott M. Tapio, Less «
Patent Assignee(s): 3M Innovative Properties Company
- 7. Patent Number(s):** US8534849 B2, CN102458819A, CN102458819B, EP2419265A1, EP2419265A4, US20100265584, WO2010121019A1
Title: Retroreflecting optical construction
Inventor Name(s): William D. Coggio, John S. Huizinga, Michael L. Steiner, Robert F. Watkins, Encai Hao, William B. Kolb, Peiwan Zhu, Michael Benton Free, Brant U. Kolb, Kui Chen-Ho, Paul E. Humpal, Kenneth L. Smith, Scott M. Tapio
Patent Assignee(s): 3M Innovative Properties Company
- 8. Patent Number(s):** WO2010078234-A1; WO2010078234-A8, CN102325585A, CN102325585B, EP2379209A1, US20110297612,
Title: Porous membrane for, e.g. filtering water with high sediment, comprises zones comprising same crystallizable polyolefin polymer, and different nucleating agents in differing concentrations, and having differing average pore size
Inventor Name(s): HESTER J F; MROZINSKI J S; DEHN D J
Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN); DEHN D J (DEHN-Individual)
- 9. Patent Number(s):** WO2004060656-A1; EP1582340-A1; JP2004564517-X; CN1735508-A; US2006177640-A1; KR2005088245-A; CN1329185-C
Title: Laminated film for circuit material, comprises biaxially oriented film(s) containing thermoplastic resin composition, and layer(s) having network structure
Inventor Name(s): HIGASHIOJI T; TSUNEKAWA T; MACHIDA T; NAKAMORI Y; TSUKEKAWA T
Patent Assignee(s): TORAY IND INC (TORA)

M91/9 Kollaja, R. A., Nguyen, D. D., Steelman, R. S., Ree, B. R., Solomonson, S.D., and Radovanovic, P. D., *US 6579601*, "Conformable multilayer films," 2003. Objavljen je i kao US2001008687 (A1), WO0128769 (A1), JP2003512201 (A), EP1237718 (A1), CN1379713 (A), CA2384132 (A1), BR0014748 (A), AU2748700 (A).

Citiran je u 42 patenta:

- 1. Patent Number(s):** US20060078744 A1
Title: Substrate having insulating layers to prevent it from warping and the method of making the same
Inventor Name(s): Tsung-Neng Liao, Francis Pan, John Pan, Chun-Chi Lee, Chih-Lung Chen

Patent Assignee(s): Forhouse Corporation

2. Patent Number(s): US20060081101 A1, CN1765561A, CN100497223C, DE102005048247A1, DE102005048247B4, US8104385

Title: Brittle workpiece splitting system and brittle workpiece splitting method

Inventor Name(s): Masakazu Hayashi, Shinji Nakata, Susumu Yahagi

Patent Assignee(s): Shibaura Mechatronics Corporation, Kabushiki Kaisha Toshiba

3. Patent Number(s): US20070202337 A1, CA2579395A1, EP1825997A2, EP1825997A3

Title: Dimensionally stable packaging film and articles made therefrom

Inventor Name(s): Andrew Lischefski, Tara Cruz, Kevin Nelson

Patent Assignee(s): Curwood, Inc.

4. Patent Number(s): US20080050568 A1

Title: Backing film, fabrication method thereof, and tape utilizing the same

Inventor Name(s): Lucky Lee, Tai Hsun Lee, Ching-Chih Lai, Yan-Sheng Yang

Patent Assignee(s): Industrial Technology Research Institute

5. Patent Number(s): US20080156438 A1, CA2493515A1, CA2493515C, CN1685025A, CN1685025B, EP1543086A1, EP1543086A4, US7285583, US7501468, US7772313, US20040029980, US20070036970, US20080161496, US20090133826, WO2004011569A1

Title: Method of producing adhered substrates

Inventor Name(s): William C. Stumphauzer, Anthony A. Parker

Patent Assignee(s): Liquamelt Licensing Llc

6. Patent Number(s): US20100119745 A1, CA2673546A1, CA2673546C, CN101616796A, CN101616796B, EP2114671A2, WO2008079755A2, WO2008079755A3

Title: Layered films, packages prepared therefrom, and methods of making the same

Inventor Name(s): Jesus Nieto, Carola Rosenthal nee Martin

Patent Assignee(s): Dow Global Technologies Inc.

7. Patent Number(s): US8076000 B2, US20070003712, US20070054139, WO2004106049A1, WO2004106050A1, WO2004106060A1, WO2004110751A1, WO2004110752A1

Title: Tie-layer materials for use with ionomer-based films and sheets as skins on other materials (Ionomer laminates, composite articles, and processes for making the same)

Inventor Name(s): Joseph Dominic Domine

Patent Assignee(s): Exxonmobil Chemical Patents Inc.

8. Patent Number(s): WO2013101699 A1, CN104136213A, EP2797741A1, US20140363600

Title: Coextruded multilayer cyclic olefin polymer films or sheet having improved moisture vapor barrier

Inventor Name(s): Joseph Dooley, Steven R. Jenkins, Patrick Chang Dong LEE

Patent Assignee(s): Dow Global Technologies Llc

9. Patent Number(s): US20090084787 A1, CN101223083A, CN101223083B, EP1902967A1, EP1902967A4, EP1902967B1, WO2007007700A1

Title: Packaging Containers, Method of Producing Innertape, and Innertape for Packaging Containers

Inventor Name(s): Tadakatsu Ikenoya

Patent Assignee(s): Tetra Laval Holdings & Finance S.A.

10. Patent Number(s): US8037631 B2, US20100146833, US20120032050

Title: Display panel mounting system and method

Inventor Name(s): Rod Harris

Patent Assignee(s): Truck Ads, Llc

11. Patent Number(s):US20080276510 A1, CA2589845A1, CA2589845C, US8037629, US20120030979

Title: Display panel mounting system and method

Inventor Name(s): Rod Harris

Patent Assignee(s): Rod Harris

12. Patent Number(s): WO2012129045 A1, CN103415391A, CN103429430A, EP2686162A1, EP2686166A1, WO2012129046A1

Title: Multi-layer polymeric films and methods of forming same

Inventor Name(s): Hugh Joseph O'donnell, Daniel Charles Peck, PierLorenzo CARUSO, Brandon Ellis Wise, Johansson Jimmy Tee, Jr

Patent Assignee(s): The Procter & Gamble Company

13. Patent Number(s): US20120237746 A1, US20120237743

Title: Multi-Layer Polymeric Films and Methods of Forming Same

Inventor Name(s): Hugh Joseph O'Donnell, Daniel Charles Peck, Pier-Lorenzo Caruso

Patent Assignee(s): O'Donnell Hugh Joseph, Daniel Charles Peck, Pier-Lorenzo Caruso

14. Patent Number(s): US20120205820 A1, CN102683297A

Title: Encapsulating resin sheet and semiconductor device using the same, and manufacturing method for the semiconductor device

Inventor Name(s): Takashi Oda, Kosuke MORITA, Hiroyuki Senzai

Patent Assignee(s): Nitto Denko Corporation

15. Patent Number(s): US20090186198 A1, EP2080614A2, EP2080614A3, US20150174884

Title: Protected Graphics and Related Methods

Inventor Name(s): James E. McGuire, Jr.

Patent Assignee(s): Entrotech, Inc.

16. Patent Number(s): US20080311364 A1

Title: Multi-layered self-adhesive protective film

Inventor Name(s): Jose de Jesus Ortega Sanchez

Patent Assignee(s): Sanchez Jose De Jesus Ortega

17. Patent Number(s): US20070261792 A1, EP1723062A1, WO2005082755A1

Title: Locator Tool Assembly for Paint Replacement Films

Inventor Name(s): Gordon Anderson

Patent Assignee(s): Anderson Gordon L

18. Patent Number(s): US20050271864 A1, CN1981316A, EP1766598A2, WO2005124727A2, WO2005124727A3

Title: Method of providing printable decorative labels for customization of portable electronic devices

Inventor Name(s): Sjoerd van Driesten, Nicoline Hermans

Patent Assignee(s): Van Driesten Sjoerd J, Nicoline Hermans

19. Patent Number(s): US20110039098 A1, EP2237951A2, WO2009095231A2, WO2009095231A3

Title: Gas-barrier films and sheets

Inventor Name(s): Roberto Forloni, Eugenio Sergio Longo, Paolo Ciocca

Patent Assignee(s): Roberto Forloni, Eugenio Sergio Longo, Paolo Ciocca

20. Patent Number(s): US20120040173 A1, CA2805287A1, WO2012021522A1

Title: Low density coring material

Inventor Name(s): Robert Mark Adams, Randall Lake, Louis Paul Schaefer, Helena Twardowska, Brian Kruchten

Patent Assignee(s): Illinois Tool Works Inc.

21. Patent Number(s): US20040247837 A1, CA2528922A1, CN1802255A, CN1802255B, EP1641617A2, EP1641617A4, US20060003114, US20100028586, WO2005005161A2, WO2005005161A3

Title: Multilayer film

Inventor Name(s): Howard Enlow, Keith Truog

Patent Assignee(s): Howard Enlow, Truog Keith L.

22. Patent Number(s): US20040039106 A1, EP1517945A2, EP1517945A4, WO2004003060A2, WO2004003060A3

Title: Conformable calendered films and articles made therefrom

Inventor Name(s): Aren Man, Chan Ko, Sam Visser

Patent Assignee(s): Man Aren Joost De, Ko Chan U., Visser Sam De

23. Patent Number(s): US20040001948 A1, US20020187341 A1, CA2432999A1, CN1489522A, EP1355782A1, EP1355782A4, WO2002051628A1

Title: Film and adhesive tape formed therewith

Inventor Name(s): Bernhard Mussig, Ingo Neubert

Patent Assignee(s): Bernhard Mussig, Ingo Neubert

24. Patent Number(s): US20020187341 A1, CA2432999A1, CN1489522A, EP1355782A1, EP1355782A4, WO2002051628A1

Title: Conformable films and articles made therefrom

Inventor Name(s): Chan Ko, Aren De Man

Patent Assignee(s): Ko Chan U., De Man Aren Joost

25. Patent Number(s): US9238719 B2, CN101848968A, CN101848968B, EP2207848A2, EP2207848B1, US9290629, US20100331995, US20150203641, WO2009060043A2, WO2009060043A3

Title: Process for producing high molecular weight polyethylene

Inventor Name(s): Harold Jan Smelt, Pieter Gijsman, Martin Van Duin

Patent Assignee(s): Dsm Ip Assets B.V.

26. Patent Number(s): US9186873 B2, CA2782339A1, CN102712182A, CN102712182B, EP2508343A1, EP2508343A4, US20120237747, WO2011068105A1

Title: Multilayered structure and method for producing the same

Inventor Name(s): Shinji Tai, Hiroshi Kawai, Satoshi Yamakoshi, Kouta Isoyama, Masao Hikasa, Kentaro Yoshida

Patent Assignee(s): Kuraray Co., Ltd.

27. Patent Number(s): US8545960 B2, US20100068446

Title: Articles comprising protective sheets and related methods

Inventor Name(s): James E. McGuire, Jr., Andrew C. Strange

Patent Assignee(s): Entrotech, Inc.

28. Patent Number(s): US8545959 B2, EP1937454A2, EP1937454A4, EP1937454B1, EP1937475A2, EP1937475A4, EP2404729A1, US20080261014, US20080286576, WO2007048141A2, WO2007048141A3, WO2007048145A2, WO2007048145A3

Title: Composite articles comprising protective sheets and related methods

Inventor Name(s): James E. McGuire, Jr., Andrew C. Strange

Patent Assignee(s): Entrotech Composites, Llc

29. Patent Number(s): US8007902 B2, EP2142369A1, EP2142369A4, EP2142369B1, EP2177354A1, EP2177354A8, EP2177354B1, EP2460640A1, EP2460640B1, EP2500169A1, EP2500169B1, EP2851196A1, US8182906, US20090317649, US20100015426, US20120064317, US20150368432, US20160136860, WO2009137401A1

Title: Multilayer clear over color polyolefin sheets and layered backing structure

Inventor Name(s): Dennis C. Smith

Patent Assignee(s): A. Schulman, Inc.

30. Patent Number(s): CA2515757A1, CA2515760A1, CA2515760C, CA2515763A1, CA2515764A1, CA2516065A1, CA2516073A1, CA2516073C, EP1592566A1, EP1597062A2, EP1597089A2, EP1597090A2, EP1597091A2, EP1597092A2, US7842363, US7842364, US7846522, US20040253421, US20040253423, US20050003129, US20060046028, US20060046083, US20070092678, US20070092679, US20070098943, US20070196631, WO2004074003A2, WO2004074003A3, WO2004074004A1, WO2004074004A8, WO2004074006A2, WO2004074006A3, WO2004074007A2, WO2004074007A3, WO2004074008A2, WO2004074008A3, WO2004074009A2, WO2004074009A3

Title: Multi-layer dry paint decorative laminate having discoloration prevention barrier (Discoloration-resistant articles for applying color on surfaces and methods of reducing discoloration in articles for applying color on surfaces)

Inventor Name(s): Frank Yen-Jer Shih, Roger A. Fahlsing, Anneke Margaret Kaminski, John Vincent Fontana, Douglas Bruce Zeik, Martin Ian James, Less «

Patent Assignee(s): The Procter & Gamble Company

31. Patent Number(s): DE102008033322-A1; EP2157145-A1

Title: Method and use of adhesive strips for covering or sealing optically high-value surfaces

Inventor Name(s): BOEHM N; DOLLASE T; ESCUDERO V A; PORTMANN M; ESCUDERO VALLEJO A

Patent Assignee(s): TESA SE (TESA)

32. Patent Number(s): US2008174176-A1; WO2008088355-A1; NO200901857-A; EP2121420-A1; US7866766-B2, US20110109153

Title: Light weight track for a snowmobile

Inventor Name(s): BERG N O; BERG N

Patent Assignee(s): POLARIS IND INC (POLA-Non-standard)

33. Patent Number(s): US2007092679-A1; US7842364-B2

Title: Differential release system for a self-wound multilayer dry paint decorative laminate having a pressure sensitive adhesive

Inventor Name(s): TRUOG K L; MCCARTNEY T L; POTTER C W; FAHLSING R A; EWANKO D B; STEINHARDT M J; KAMINSKI A M; PROSISE R L

Patent Assignee(s): PROCTER & GAMBLE CO (PROC); AVERY DENNISON CORP (AVER); PROCTER&GAMBLE CO (PROC)

34. Patent Number(s): US2005244665-A1; WO2005107502-A1; EP1746905-A1; AU2005239990-A1; US7258930-B2; JP2007537058-W; AU2005239990-B2; NZ550735-A

Title: Oxygen scavenging film with cyclic olefin copolymer

Inventor Name(s): RIVETT J W; SPEER D V; RIVETT J; SPEER D

Patent Assignee(s): CRYOVAC INC (CRYV)

35. Patent Number(s): US6842288-B1; WO2005045479-A1; EP1678529-A1; KR2006095573-A; CN1875296-A; JP2007512552-W; CN100526916-C

Title: Multilayer optical adhesives and articles

Inventor Name(s): LIU Y J; BROTT R L; CERNOHOUS J J; LU Y; MOSHREFZADEH R S; SCHAFFER K R; LIU Y; BROTT R; CERNOHOUS J; MOSHREFZADEH R; SCHAFFER K; LU Y Y

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN)

36. Patent Number(s): US2004219364-A1; US7255914-B2

Title: Variable refractive index polymer materials

Inventor Name(s): SHIRK J S; BAER E; HILTNER P A

Patent Assignee(s): SHIRK J S (SHIR-Individual); BAER E (BAER-Individual); HILTNER P A (HILTIndividual); UNIV CASE WESTERN RESERVE (UCWR)

37. Patent Number(s): US2004161567-A1; US7807246-B2, CN1747831A, CN1753733A, CN1756671A, CN1761575A, CN1761577A, CN1761578A, CN1761579A, CN1780731A, CN100566991C, US7132142, US7722938, US7905981, US20040159969, US20040161564, US20040161566, US20040161567, US20040161568, US20060029765, US20070065621,

Title: Dry paint transfer laminate (Method of making a dry paint transfer laminate)

Inventor Name(s): TRUOG K L; FAHLSING R A; ENLOW H; CONTI N A; SHIH F Y

Patent Assignee(s): PROCTER&GAMBLE CO (PROC)

38. Patent Number(s): EP1391294-A; EP1391294-A1; US2004038012-A1; WO2004018204-A1; AU2003259938-A1; US7051493-B2; NZ538026-A; AU2003259938-B2; CA2495958-C

Title: High modulus, temperature-resistant film for form fill and seal packaging

Inventor Name(s): AHLGREN K R; COOK H J; RIVETT J W; SHAH G P; DAYRIT R M
Patent Assignee(s): CRYOVAC INC (CRYV); COOK H J (COOK-Individual); RIVETT J W (RIVEIndividual); SHAH G P (SHAH-Individual); DAYRIT R M (DAYR-Individual); AHLGREN K R (AHLGIndividual)

39. Patent Number(s): WO2003053719-A; WO2003053719-A2; US2003134114-A1; AU2002361822-A1;

US2004076788-A1; EP1456040-A2; US2004200564-A1; KR2004069337-A; KR2004069338-A; JP2005512862-W; CN1628041-A; CN1635957-A; AU2002361822-A8; MX2004006007-A1; KR648019-B1; US7316832-B2; US2008069996-A1; US2008090053-A1; JP2009107343-A; EP1456040-B1; CN100488788-C; DE60233970-E; US7622175-B2; CN100556684-C; JP4421298-B2; MX272666-B; US7709070-B2; CA2468185-C; US7897227-B2; US7897228-B2; US2006165979-A1

Title: Articles and methods for applying color on surfaces

Inventor Name(s): KINSEY V A; PALLOTTA S C; O'BRIEN M J; WNUK A J; TOUSSANT J W; PROSISE R L; STEINHARDT M J; KAMINSKI A M; PAWLIKOWSKI J A; HALL B N; WESTENDORF R D; OBRIEN M J; KINSEY V; PALLOTTA S; OBRIEN M; WNUK A; TOUSSANT J; PROSISE R

Patent Assignee(s): PROCTER & GAMBLE CO (PROC); STEINHARDT M J (STEI-Individual); PALLOTTA S C (PALL-Individual); PROSISE R L (PROS-Individual); TOUSSANT J W (TOUS-Individual); WNUK A J (WNUK-Individual); KINSEY V A (KINS-Individual); KAMINSKI A M (KAMI-Individual); PAWLIKOWSKI J A (PAWL-Individual); HALL B N (HALL-Individual); WESTENDORF R D (WESTIndividual); PROCTER&GAMBLE CO (PROC); OBRIEN M J (OBRI-Individual)

40. Patent Number(s): WO2003046059-A; US2003099840-A1; WO2003046059-A2; US6696117-B2; AU2002365391-A1; AU2002365391-A8

Title: Composite laminate structures especially useful for automotive trim components, and methods and tie layers employed to make the same

Inventor Name(s): DEY S K; PATEL S H; XANTHOS M

Patent Assignee(s): DEY S K (DEYS-Individual); PATEL S H (PATE-Individual); XANTHOS M (XANTIndividual); GUARDIAN IND CORP (GURD)

41. Patent Number(s): WO2003053668-A; WO2003053668-A1; US2003148095-A1; AU2002360398-A1;

EP1456015-A1; KR2004068278-A; JP2005512854-W; US6949283-B2

Title: Polymeric coextruded multilayer articles

Inventor Name(s): KOLLAJA R A; ECKSTEIN A; FLOYD R M

Patent Assignee(s): 3M INNOVATIVE PROPERTIES CO (MINN); KOLLAJA R A (KOLL-Individual); ECKSTEIN A (ECKS-Individual); FLOYD R M (FLOY-Individual)

42. Patent Number(s): WO200287873-A; KR2004015243-Y1; WO200287873-A2; EP1395426-A2; AU2002249461-A1; KR2004015243-A; JP2004525005-W; CN1522201-A; US2005058825-A1; AU2002249461-A8; EP1395426-B1; US7255928-B2; DE60221013-E; DE60221013-T2; CN100349735-C; JP4651911-B2

Title: Multilayer polymeric films

Inventor Name(s): MACKERRON D H; FRIEND J E; MACKERRON D; FRIEND J; ELIZABETH F J; HENRY M D

Patent Assignee(s): DUPONT TEIJIN FILMS US LP (DUTE); DUPONT TEIJIN FILMS US LTD (DUTE); MACKERRON D H (MACK-Individual); FRIEND J E (FRIE-Individual)

M91/10 Hester, J. F., Spiewak, B.E., **Radovanovic, P. D.**, Reimann, S.R., and Kody, R. S., US 6986428, "Fluid separation membrane module," 2006. Objavljen je i kao US2004226886 (A1), WO2004103535 (A1), MXPA05012112 (A), KR20060003090 (A), JP2006528069 (A), JP4327855 (B2), EP1622704 (A1), EP1622704 (B1), EP1622704 (B8), BRPI0409932 (A), BRPI0409932 (B1), AU2004241942 (A1), AT435695 (T)

Citiran je u 41 patentu.

1. Patent Number(s): US2007119771-A1; WO2007064522-A1; EP1954382-A1; AU2006320849-A1; KR2008071594-A; CN101321576-A; JP2009517212-W; CA2631503-A1; IN200802690-P4; US7794593-B2; RU2008121860-A

Title: Cross-flow membrane module

Inventor Name(s): SCHUKAR G W; FANSELOW D L; JOHNSON T W; ISDER N J; FONG B K; BEGICH M D; FANSELOW D; JOHNSON T; ISDER N; FONG B; BEGICH M

Patent Assignee(s): SCHUKAR G W (SCHU-Individual); FANSELOW D L (FANS-Individual); JOHNSON T W (JOHN-Individual); ISDER N J (ISDE-Individual); FONG B K (FONG-Individual); BEGICH M D (BEGIIndividual); 3M INNOVATIVE PROPERTIES CO (MINN)

2. Patent Number(s): US7955504 B1, US8137554, US8273245, US20110253629, US20120074062, US20120292246

Title: Microfluidic devices, particularly filtration devices comprising polymeric membranes, and method for their manufacture and use

Inventor Name(s): Goran Jovanovic, Sundar V. Atre, Brian Kevin Paul, John Simonsen, Vincent Thomas Remcho, Chih-Hung Chang

Patent Assignee(s): State Of Oregon Acting By And Through The State Board Of Higher Education On Behalf Of Oregon State University

3. Patent Number(s): US8128822 B2, CA2583360A1, CA2583360C, CN101084054A, CN101084054B, EP1804959A1, EP1804959A4, EP1804959B1, US8419945, US20080093298, US20120223015, US20140069861, WO2006042079A1

Title: MECS dialyzer

Inventor Name(s): David M. Browning, James R. Curtis, Goran Nadezda Jovanovic, Brian Kevin Paul, Sundar Atre

Patent Assignee(s): State Of Oregon Acting By And Through The State Board Of Higher Education On Behalf Of Oregon State University, Home Dialysis Plus

4. Patent Number(s): US8388848 B2, CN101405072A, CN101405072B, CN102068908A, CN102068908B, EP2002880A1, EP2002880A4, EP2439321A1, US20100006504, WO2007114069A1

Title: Liquid separation device, flow channel material and process for producing the same

Inventor Name(s): Yoshifumi Odaka, Toshimasa Katayama, Tsunemitsu Kitagawa

Patent Assignee(s): Toray Industries, Inc.

5. Patent Number(s): US8501009 B2, US8524086, US9138687, US20110300230, US20110300231, US20130327715, US20150328386

Title: Fluid purification system

Inventor Name(s): Richard B. Peterson, James R. Curtis, Hailei WANG, Robbie Ingram-Goble, Luke W. Fisher, Anna E. Garrison

Patent Assignee(s): State Of Oregon Acting By And Through The State Board Of Higher Education On Behalf Of Oregon State University, Home Dialysis Plus, Ltd.

6. Patent Number(s): US8580161 B2, US20110272644

Title: Fluidic devices comprising photocontrollable units

Inventor Name(s): Vincent Thomas Remcho, Jintana Nammoonnoy, Myra Koesdjojo

Patent Assignee(s): State Of Oregon Acting By And Through The State Board Of Higher Education On Behalf Of Oregon State University

7. Patent Number(s): US8800308 B2, CN103109138A, CN103109138B, CN105588236A, EP2577178A2, EP2577178A4, US8943850, US9000289, US9086223, US9243810, US9273877, US20120125020, US20120125021, US20120125031, US20120125405, US20120125581, US20120131934, US20120131937, US20120131938, US20120131939, US20120131940, US20120132513, US20120186281, US20150184876, WO2011150081A2, WO2011150081A3, WO2011150081A4

Title: Methods and systems for desiccant air conditioning with combustion contaminant filtering

Inventor Name(s): Peter F. Vandermeulen, Jack I. Hanoka

Patent Assignee(s): 7Ac Technologies, Inc.

8. Patent Number(s): US20100326916 A1, CA2801196A1, CN103153442A, CN103153442B, CN105288762A, EP2576024A1, US8801922, US20140299545, WO2011156279A1

Title: Dialysis system

Inventor Name(s): Julie Wrazel, James R. Curtis, Ladislaus Nonn, Richard B. Peterson, Hailei WANG, Robbie Ingram-Goble, Luke W. Fisher, Anna E. Garrison, M. Kevin Drost, Goran Jovanovic, Richard Todd Miller, Bruce W. Johnson, Alana Warner-Tuhy, Eric K. Anderson

Patent Assignee(s): State of Oregon acting by and through the State Board of Higher Education on behalf of Oregon, Home Dialysis Plus, Ltd.

9. Patent Number(s): US9101874 B2, CN104508417A, EP2859294A2, EP2859294A4, US9101875, US9308490, US20140150656, US20140150657, US20140150662, WO2013188388A2, WO2013188388A3

Title: Methods and systems for turbulent, corrosion resistant heat exchangers

Inventor Name(s): Peter F. Vandermeulen

Patent Assignee(s): 7Ac Technologies, Inc.

10. Patent Number(s): WO2015049499 A1

Title: Spiral wound gas separation membrane module

Inventor Name(s): DER BURG Eduard VAN, Nori Miyagishima, Yujiro Itami

Patent Assignee(s): Fujifilm Manufacturing Europe Bv, Fujifilm Corporation, Fujifilm Imaging Colorants Limited

11. Patent Number(s): US9328969 B2, CA2851245A1, CN103957960A, CN103957960B, EP2763719A2, EP2763719A4, US20130092361, WO2013052680A2, WO2013052680A3

Title: Heat exchange fluid purification for dialysis system

Inventor Name(s): Julie Wrazel, Gopi Lingam, Erik Miller, Clayton Hires

Patent Assignee(s): Outset Medical, Inc.

12. Patent Number(s): US20060191837 A1, EP1853375A1, WO2006091157A1, US20080156730 A1

Title: Permeate spacer module

Inventor Name(s): Nicolas Heinen

Patent Assignee(s): Alfa Laval Corporate Ab

13. Patent Number(s): US20060236664 A1, CN1864806A, DE102005019262A1, DE202005021783U1, EP1716905A1

Title: Filter system

Inventor Name(s): Ulrich Stahl, Uwe Felber

Patent Assignee(s): Carl Freudenberg Kg

14. Patent Number(s): US20080000827 A1, CA2587571A1, CN101060914A, DE102004057107A1, DE102004057107B4, EP1814648A1, WO2006056159A1

Title: Frameless, Plate-Shaped Filtering Member

Inventor Name(s): Ulrich Bruss

Patent Assignee(s): Ulrich Bruss

15. Patent Number(s): US20080011693 A1

16. Title: Self-cleaning waste-water device and method

Inventor Name(s): Ming Li, Shaoxiang Lu

Patent Assignee(s): Ming Li, Shaoxiang Lu

17. Patent Number(s): US20080108122 A1, US20120298037

Title: Microchemical nanofactories

Inventor Name(s): Brian Paul, Chih-Hung Chang, Vincent Remcho

Patent Assignee(s): State of Oregon acting by and through the State Board of Higher Education on behalf of Oregon, State University

18. Patent Number(s): US20090211977 A1, US20150354906

Title: Through-plate microchannel transfer devices

Inventor Name(s): Richard Todd Miller

Patent Assignee(s): Oregon State University

19. Patent Number(s): US20100326914 A1, EP2445615A1, WO2010151419A1

Title: Microfluidic devices

Inventor Name(s): M. Kevin Drost, Goran Jovanovic, Richard Todd Miller, James R. Curtis, Bruce W. Johnson, Alana Warner-Tuhy, Eric K. Anderson, Julie S. Wrazel.

Patent Assignee(s): State of Oregon acting by and through the State Board of Higher Education on behalf of Oregon, State University And Home Dialysis Plus, Ltd.

20. Patent Number(s): US20110023728 A1

Title: Pasteurization system and method

Inventor Name(s): Geoffrey F. Deane, William Gates, Roderick A. Hyde, Jordin T. Kare, Nathan P. Myhrvold, David B. Tuckerman, Lowell L. Wood, JR., Ozgur Yildirim

Patent Assignee(s): Searete Llc, A Limited Liability Corporation Of The State Of Delaware

21. Patent Number(s): US20110189048 A1, WO2011069110A1

Title: Modular dialysis system

Inventor Name(s): James R. Curtis, Michael Baker, Dalibor Jan Smejtek

Patent Assignee(s): Curtis James R, Michael Baker, Dalibor Jan Smejtek

22. Patent Number(s): WO2015123300 A1, US20150231573

Title: Mass transfer device and system generating vortices for particle suspension, concentration, and transport

Inventor Name(s): S. Laurie SANDERSON

Patent Assignee(s): College Of William And Mary

23. Patent Number(s): WO2006044711 A1

Title: Separation elements and methods of making separation elements

Inventor Name(s): Thomas Fendya, Mark Hurwitz, Carolyn Shapiro, Robert Spearing

Patent Assignee(s): Pall Corporation

24. Patent Number(s): US7404848 B2, CN1782652A, CN100395507C, DE102005037485A1, US20060112827

Title: Humidifier and a method for producing the same

Inventor Name(s): Tatsunori Okada, Hajimu Yoshiyasu, Tatsuya Hayashi, Hideo Ichimura

Patent Assignee(s): Mitsubishi Denki Kabushiki Kaisha

25. Patent Number(s): US8245855 B2, CA2623632A1, CA2623632C, CN101048350A, CN101048350B, DE202004015240U1, EP1807358A1, EP1807358B1, US20080087600, WO2006034701A1

Title: Thread system for installing in drinking water systems and other liquid-guiding systems

Inventor Name(s): Detlef Militz

Patent Assignee(s): Silvertex Ag

26. Patent Number(s): US8465644 B2, EP2236195A2, EP2236195A3, US20100243555

Title: Membrane element in immersion type membrane separation apparatus

Inventor Name(s): Kotaro KITAMURA, Yasuyuki Okuno, Yusuke Okawa, Hidemi Nagakawa

Patent Assignee(s): Hitachi Plant Technologies, Ltd.

27. Patent Number(s): US8608817 B2, CN101939072A, EP2227308A2, US20090120048, US20110147976, WO2009062009A2, WO2009062009A3

Title: Meltblown filter medium

Inventor Name(s): John A. Wertz, David Thomas Healey, William S. Freeman, John L. Manns, Mark Rowlands

Patent Assignee(s): Hollingsworth & Vose Company

28. Patent Number(s): US8986432 B2, US20100000411

Title: Meltblown filter medium, related applications and uses

Inventor Name(s): John A. Wertz, David T. Healey, William S. Freeman, John L. Manns, Mark Rowlands

Patent Assignee(s): Hollingsworth & Vose Company

29. Patent Number(s): US20120193285 A1, CN101528877A, CN101528877B, CN103396743A, EP2085443A1, EP2085443A4, US8187511, US8828227, US20100032368, WO2008050577A1

Title: Method for producing resin porous membrane with adhesive layer, resin porous membrane with adhesive layer, and filter member

Inventor Name(s): Yozo Nagai, Kouji Furuuchi, Miho Yamaguchi

Patent Assignee(s): Nitto Denko Corporation

30. Patent Number(s): US8950587 B2, CN103619437A, EP2624934A2, US20110079553, US20140063242, US20150182885, WO2012047979A2, WO2012047979A3

Title: Filter media suitable for hydraulic applications

Inventor Name(s): Cameron Thomson, Milind Godsay, Randall Keisler

Patent Assignee(s): Hollingsworth & Vose Company

31. Patent Number(s): US9283501 B2, CN102917769A, CN102917769B, EP2563493A1, EP2563493A4, US8679218, US20110259813, US20140144113, WO2011137154A1

Title: Filter media with a multi-layer structure

Inventor Name(s): John A. Wertz, Douglas M. Guimond

Patent Assignee(s): Hollingsworth & Vose Company

32. Patent Number(s): US20090008316 A1, CN101389388A, CN101389388B, EP1986758A1, WO2007096128A1

Title: Filter Plate for Use in a Filter Stack

Inventor Name(s): John Verhaeghe, Johan Hugelier, Martin Van Haeke, Johan Van Meenen

Patent Assignee(s): John Verhaeghe, Johan Hugelier, Martin Van Haeke, Johan Van Meenen

33. Patent Number(s): US20100096317 A1, CA2662925A1, CN101541406A, CN101541406B, EP2060314A1, EP2060314A4, WO2009004962A1

Title: Flat sheet membrane element for filtration and flat sheet membrane filtration module

Inventor Name(s): Toru Morita

Patent Assignee(s): Sumitomo Electric Fine Polymer, Inc.

34. Patent Number(s): WO2014093743 A1, US20150343388, WO2014093743A8

Title: Constructions for fluid membrane separation devices

Inventor Name(s): Jonathan F. Hester, Gustavo H. Castro, Thomas Herdtle, Liming Song

Patent Assignee(s): 3M Innovative Properties Company

35. Patent Number(s): US20150314241 A1, CN104837545A, EP2931408A1, WO2014092969A1

Title: Constructions for fluid membrane separation devices

Inventor Name(s): Jonathan F. Hester, Gustavo H. Castro, Thomas Herdtle, Jimmy M. Le, Liming Song

Patent Assignee(s): 3M Innovative Properties Company

36. Patent Number(s): WO2014046898 A1

Title: Fluid separation unit for extraction of bioethanol

Inventor Name(s): John W. Henderson, Brady P. Haislet, Brent R. Hansen, Jonathan F. Hester, Qihong Nie, John F. Reed, John B. Scheibner, David F. Slama, Steven E. Turch

Patent Assignee(s): 3M Innovative Properties Company

37. Patent Number(s): US20130146532 A1, WO2013085664A1

Title: Feed spacer for spiral wound membrane element

Inventor Name(s): Prasanna Rao Dontula, Yatin Tayalia, Upen Jayant BHARWADA

Patent Assignee(s): General Electric Company

38. Patent Number(s): WO2008055486 A1, DE112007003252A5, DE202006017104U1

Title: Filter pocket

Inventor Name(s): Ulrich Weise

Patent Assignee(s): Weise Water Systems Gmbh

39. Patent Number(s): EP2742992 A1, CN103842055A, EP2742992A4, US20140251896, WO2013047746A1

Title: Separation membrane, separation membrane element, and production method for separation membrane

Inventor Name(s): Hiroho Hirozawa, Masakazu Koiwa, Kentaro Takagi, Yoshiki Okamoto, Hiroyuki Yamada, Tsuyoshi Hamada, Katsufumi Oto, Masahiro Kimura, Less «

Patent Assignee(s): Toray Industries, Inc.

40. Patent Number(s): EP2735357 A1, CN103842054A, CN103842054B, EP2735357A4, US20140231332, WO2013047744A1

Title: Separation membrane and separation membrane element

Inventor Name(s): Hiroho Hirozawa, Masakazu Koiwa, Kentaro Takagi, Yoshiki Okamoto, Hiroyuki Yamada, Tsuyoshi Hamada, Katsufumi Oto, Masahiro Kimura, Less «

Patent Assignee(s): Toray Industries, Inc.

41. Patent Number(s): CN102897899 A, CN102897899B

Title: Modified biological filler for wastewater treatment and preparation method thereof

Inventor Name(s): 祁佩时, 陈洪一, 王健, 刘云芝

Patent Assignee(s): 哈尔滨工业大学



TECHNISCHE
UNIVERSITÄT
WIEN
Vienna University of Technology

Diese Dissertation haben begutachtet:

Prof. Dr. Robert Liska

Prof. Dr. Vasiliki-Maria Archodoulaki

DISSERTATION

Entwicklung neuer Materialien für protonenleitende Membranen in Brennstoffzellen

Ausgeführt zum Zwecke der Erlangung des akademischen Grades eines Doktors
der technischen Naturwissenschaften unter der Leitung von

Ao.Univ.Prof. Dipl.-Ing. Dr.techn. Robert Liska

E163

Institut für Angewandte Synthesechemie

eingereicht an der Technischen Universität Wien

Fakultät für Technische Chemie

von

Dipl.-Ing. Michael Kellner

e9925339

Pantzergasse 28/19; 1190 Wien

Wien, am 10. Oktober 2013

An dieser Stelle möchte ich mich bei meinem Betreuer Prof. Dr. Robert Liska für die Themenstellung bedanken und für die Möglichkeit meine Dissertation unter seiner Betreuung am Institut für Angewandte Synthesechemie durchführen zu können.

Ebenso möchte ich all jenen danken, mit denen ich im Laufe meiner Arbeit direkt zusammengearbeitet habe und die mich bei meiner Arbeit unterstützt haben. Besonders hervorheben möchte ich dabei Dr. Philip Radovanovic, der mich mit seinem Fachwissen über Membranen unterstützte, und Dr. Jovan Matovic, der für mich Geräte baute und Leitfähigkeitsmessungen ermöglichte. Weiters danke ich Ing. Walter Dazinger, der mir durch sein großes fachkundiges Wissen oft weiterhelfen konnte und Ingeborg Rohrer, die mir den größten Teil der administrativen Arbeit abgenommen hat.

Ein großer Dank gilt auch all meinen Kollegen am Institut für Angewandte Synthesechemie, die mich während meiner Zeit am Institut begleitet haben. Dank ihnen herrschte stets ein angenehmes und produktives Arbeitsklima sie unterstützten mich sowohl fachlich als auch emotional bei meiner Arbeit. Besonders erwähnen möchte ich in diesem Zusammenhang Dr. Linh Nguyen Pham Duy, Dipl.-Ing. Mia Schachner, Dr. Dzanana Dautefendic, Dr. Astrid Gugg, Dipl.-Ing. Katrin Fohringer, Dipl.-Ing. Patrick Knaack und Dipl.-Ing. Kerstin Wallisch.

Mein größter Dank gilt meiner Mutter dafür, dass sie mir das Studium ermöglicht und mich stets unterstützt hat.