

ИНСТИТУТ ТЕХНИЧКИХ НАУКА САНУ
Кнез Михаилова 35/IV
11000 Београд

НАУЧНОМ ВЕЋУ ИНСТИТУТА ТЕХНИЧКИХ НАУКА САНУ

Предмет: Молба за покретање поступка за избор у научно звање

Молим Научно веће Института техничких наука САНУ, да у складу са Правилником о поступку, начину вредновања и квантитативном исказивању научно-истраживачких резултата истраживача ("Сл. гласник РС", бр. 24/2016 и 21/2017) покрене поступак мог избора у звање научни сарадник.

За чланове комисије за припрему извештаја Научном већу предлажем:

- др Магдалену Стевановић, научног саветника Института техничких наука САНУ
- др Бранимира Југовића, научног саветника Института техничких наука САНУ
- др Филипа Радовановића, вишег научног сарадника Института техничких наука САНУ

У прилогу достављам:

1. Биографију
2. Библиографију
3. Уверење о стицању звања доктор физичкохемијских наука

У Београду 03.10.2018.

Подносилац захтева:



Др Ненад Филиповић,
истраживач сарадник ИТН САНУ

БИОГРАФИЈА

Ненад Филиповић је рођен 25.11.1984. године у Нишу, држава Србија. Основне студије је уписао школске 2003/04. године на Факултету за физичку хемију Универзитета у Београду и завршио их са просечном оценом 8.23 и дипломским радом "Термичка стабилност и кристализација аморфне легуре $\text{Fe}_{89.8}\text{Ni}_{1.5}\text{Si}_{5.2}\text{B}_3\text{C}_{0.5}$ ". Мастер рад под насловом "Механизам првог кристалizacionог ступња аморфне легуре $\text{Fe}_{89.8}\text{Ni}_{1.5}\text{Si}_{5.2}\text{B}_3\text{C}_{0.5}$ " је одбранио 2011. године на истом факултету. Исте године је уписао докторске студије, на Факултету за физичку хемију Универзитета у Београду.

У Институту техничких наука САНУ је запослен од новембра 2011. године. Ангажован је на пројекту интегралних и интердисциплинарних истраживања ИИИ 45004, "Молекуларно дизајнирање наночестица контролисаних морфолошких и физичкохемијских карактеристика и функционалних материјала на њиховој основи". У звање истраживач сарадник први пут је изабран 10.10.2012. а потом реизабран 05.10.2015.

Области научно-истраживачког рада и интересовања: биоматеријали, полимерни биодеградабилни материјали, наномедицина, контролисано отпуштање активних компоненти, ткивно инжењерство, микро- и наноносачи за тераностичке агенсе, биокомпатибилност материјала, антимикробно дејство наночестица и њихова потенцијална примена у болничким инфекцијама...

ПРИЛОГ 1 - БИБЛИОГРАФИЈА

Рад у међународном часопису изузетних вредности (M21a):

1. N. Filipović, M. Stevanović, A. Radulović, V. Pavlović, D. Uskoković, ***Facile synthesis of poly(epsilon-caprolactone) micro and nanospheres using different types of polyelectrolytes as stabilizers under ambient and elevated temperature***, Composites Part B: Engineering, 45 (2013) 1471–1479.
(IF=2.602) <http://dx.doi.org/10.1016/j.compositesb.2012.07.008>
2. M. Stevanović, I. Bračko, M. Milenković, N. Filipović, J. Nunić, M. Filipič, D. P. Uskoković, ***Multifunctional PLGA particles containing poly(L-glutamic acid)-capped silver nanoparticles and ascorbic acid with simultaneous antioxidative and prolonged antimicrobial activity***, Acta Biomaterialia, 10 (2014) 151-162.
(IF=6.025) <http://dx.doi.org/10.1016/j.actbio.2013.08.030>

Рад у врхунском међународном часопису (M21):

3. N. Filipović, M. Stevanović, J. Nunić, S. Cundrič, M. Filipič, D. Uskoković ***Synthesis of poly(epsilon-caprolactone) nanospheres in the presence of the protective agent poly(glutamic acid) and their cytotoxicity, genotoxicity and ability to induce oxidative stress in HepG2 cells***, Colloids and Surfaces B: Biointerfaces, 117 (2014) 414–24.
(IF=4.152) <http://dx.doi.org/10.1016/j.colsurfb.2014.03.015>
4. Magdalena Stevanović, Nenad Filipović, Jelena Djurdjević, Miodrag Lukić, Marina Milenković, Aldo Boccaccini, ***45S5 Bioglass®-based scaffolds coated with selenium nanoparticles or with poly(lactide-co-glycolide)/selenium particles: Processing, evaluation and antibacterial activity***, Colloids and Surfaces B: Biointerfaces, 132 (2015) 208-215.
(IF=3.902) <http://dx.doi.org/10.1016/j.colsurfb.2015.05.024>
5. M. Dinić, U. Pecikoza, J. Djokić, R. Stepanović-Petrović, M. Milenković, M. Stevanović, N. Filipović, J. Begović, N. Golić, J. Lukić, ***Exopolysaccharide Produced by Probiotic Strain Lactobacillus paraplantarum BGCG11 Reduces Inflammatory Hyperalgesia in Rats***, Frontiers in Pharmacology, 9 (2018).
(IF=3.831) <https://doi.org/10.3389/fphar.2018.00001>
6. Vesna Lojpur, Jelena Krstić, Zorica Kačarević-Popović, Nenad Filipović, Ivana Lj. Validžić, ***Flexible and high-efficiency Sb2S3/solid carrier solar cell at low light intensity***, Environmental Chemistry Letters, 16 (2018) 659-664.
(IF=3.125) <https://doi.org/10.1007/s1031>

Саопштење са међународног скупа штампано у целини (M33):

1. Nenad Filipović, Magdalena Stevanović and Dragan Uskoković, *Effects of ambient and elevated drying temperature on morphological characteristics of poly (ϵ -caprolactone) obtained without and with different stabilizers*, **11th International Conference on Fundamental and Applied Aspects of Physical Chemistry, September 24-28, 2012, Belgrade**, Volume I (2012), p. 450-452.

Саопштење са међународног скупа штампано у изводу (M34):

1. Nenad Filipović, Magdalena Stevanović, Vladimir Pavlović, Aleksandra Radulović, Zoran Stojanović, Dragan Uskoković, *Synthesis and the effect of processing parameters on characteristics of poly- ϵ -caprolactone micro- and nanospheres*, **Tenth Young Researchers' Conference Materials Science and Engineering**, December 21-23. (2011) Belgrade, Program and the Book of Abstracts, p. 21.
2. Nenad Filipović, Magdalena Stevanović, Petar Stupar, Jana Petković, Metka Filipič, Dragan Uskoković, *Freeze-drying method to produce a range of PCL particles with tailored morphological properties*, **The fourteenth annual Materials Research Society Conference YUCOMAT**, 3-7. (2012) Herceg Novi, Book of Abstracts, p. 124.
3. Petar Stupar, Magdalena Stevanović, Nenad Filipović, Vladimir Pavlović, Jana Nunić, Sandra Cundrić, Metka Filipič, Dragan Uskoković, *Effects of different cryoprotectants on morphology of lyophilized poly(ϵ -caprolactone) micro- and nanospheres*, **Joint Event of the 11th Young Researchers' Conference: Materials Science and Engineering and the 1st European Early Stage Researches' Conference on Hydrogen Storage**, December 3rd-5th, (2012) Belgrade, Program and the Book of Abstracts, p. 104.
4. Nenad Filipović, Magdalena Stevanović, Srečo D. Škapin, Ines Bračko, Dragan P. Uskoković, *Synthesis and characterization of selenium nanoparticles in the presence of bovine serum albumin or poly (L-glutamic acid) for biomedical application*, **Joint Event of the 11th Young Researchers' Conference: Materials Science and Engineering and the 1st European Early Stage Researches' Conference on Hydrogen Storage**, December 3rd-5th, (2012) Belgrade, Program and the Book of Abstracts, p. 105.
5. Nenad Filipović, Magdalena Stevanović, Vladimir Pavlović and Dragan Uskoković, *Selenium nanoparticles for biomedical application*, **The fifteenth annual Materials Research Society Conference YUCOMAT**, September 2-6. (2013) Herceg Novi, Book of Abstracts, p. 132.

6. Nenad Filipović, Magdalena Stevanović, Vladimir Pavlović and Dragan Uskoković, *Preparation and characterization of selenium nanoparticles incorporated within poly(ϵ -caprolactone)*, **The twelfth young researchers' conference, Materials Science and Engineering**, December 11-13. (2013) Belgrade, Program and the Book of Abstracts, p. 8.
7. Nenad Filipović, Magdalena Stevanović, Jelena Djurdjević, Jadranka Milikić, Ljiljana Veselinović, Vladimir Pavlović, Dragan Uskoković, *Facile chemical synthesis and characterization of polyester/magnesium oxide nanoparticles for biomedical application*, **The sixteenth annual Materials Research Society Conference YUCOMAT 2014**, September 1-5. Herceg Novi, Book of Abstract (2014) p. 71.
8. Digilio Giuseppe, Stevanović Magdalena, Filipović Nenad, Đurđević Jelena, Milikić Jadranka, Tei Lorenzo, Catanzaro Valeria, Padovan Sergio, Carrera Carla, Aime Silvio *Gadolinium labelled microparticles as cell scaffolds for cell transplantation*, **European molecular imaging meeting EMIM 2014**, June 4-6. (2014) Antwerp, Belgium .
9. A.R. Boccaccini, M. Stevanovic, N. Filipovic, M. Lukić, Lj. Veselinović, M. Milenković, *Development and evaluation of 45S5 bioactive glass based scaffolds coated with selenium nanoparticles or with poly(lactide-co-glycolide)/selenium nanoparticles*, **European Symposium and Exhibition on Biomaterials and Related Areas (Euro BioMAT)**, Weimar, Germany (2015).
10. Nenad Filipović, Sanja Jeremić, Jasmina Nikodinović, Slavica Ražić, Magdalena Stevanović, *Effect of different degradation medium on PCL spheres loaded with selenium nanoparticles*. **Final Annual Meeting of the COST Action TD1004, "Theranostics Imaging and Therapy: An Action to Develop Novel Nanosized Systems for Imaging-Guided Drug Delivery"**, 10-11. September, Belgrade (2015).
11. Nenad Filipović, Jana Nunić, Metka Filipič, Milos Filipović and Magdalena Stevanović, *Selenium nanoparticles as a potential candidate in cancer treatment*, **4th World Conference on Physico Chemical Methods in Drug Discovery and Development (PCMDDD-4)**, Rovinj, Hrvatska, 21.-24. 09. (2015). Programme & Book of Abstracts, p. 78.
12. Nenad Filipović, Miodrag Lukić, Abirami Sengottuvelan, Sonja Kaišarević, Nebojša Andrić, Aldo R. Boccaccini and Magdalena Stevanović, *Coated calcium phosphate scaffolds for bone tissue engineering produced by foam replica method*, **The 14th Young Researchers' Conference Materials Science and**

- Engineering**, 9.-11. December (2015) Belgrade. Program and the Book of Abstracts, p. 3.
13. Catanzaro Valeria, Stevanovic Magdalena, Grange Cristina, Porta Stefano, Nenad Filipović, Tei Lorenzo, Carniato Fabio, Padovan Sergio, Esposito Giovanna, Ferrauto Giuseppe, Digilio Giuseppe, Aime Silvio, *pH responsive, gadolinium labelled cell-supporting microparticles for stem cell therapy and follow-up*, **European Molecular Imaging Meeting-EMIM 2015**, 18-20. March (2015) Venue: Kupferbau Tübingen, Hölderlinstraße 5, 72074 Tübingen, Germany.
 14. Nenad Filipović, Sanja Jeremić, Lidija Đokić, Slavica Ražić, Magdalena Stevanović, *Comparison of the release of selenium nanoparticles from poly (ϵ -caprolactone) microparticles in four different degradation mediums*, **Fifteenth Young Researchers Conference – Materials Science and Engineering**, December 7-9, 2016, Belgrade, Program and the Book of Abstracts, p. 8.
 15. Giuseppe Digilio, Nenad Filipović, Magdalena Stevanović, *Microenvironment-responsive MRI probes and their application in cell therapy follow-up*, **The fourth Quality of Life workshop "Nano for Health"**, 21. September (2016), Institute Mihajlo Pupin, Belgrade, Serbia.
 16. Nenad Filipovic, Magdalena Stevanovic, Marina Milenkovic, Jana Nunić, Metka Filipič, *Selenium nanoparticles stabilized by poly (l-glutamic acid) as an antimicrobial agent*, **AMICI meeting**, Pori, Finland, 5-8. 06. (2017).
 17. M. Stevanović, N. Filipović, V. Catanzaro, S. Padovan, C. Grange, G. Digilio, *Design of PLGA microparticles as a cell scaffolds*. **6th China-Europe Symposium on Biomaterials in Regenerative Medicine (CESB)** 21 – 24. May (2017) Porto, Portugal, book of abstracts 171-172.
 18. Valeria Catanzaro, Giuseppe Digilio, Federico Capuana, Cristina Grange, Stefano Porta, Carla Carrera, Sergio Padovan, Nenad Filipovic, Magdalena Stevanovic, *Redox-responsive mri probes to follow-up the microenvironment within cell-embedding hydrogels*, **12th European Molecular Imaging Meeting (EMIM)**, 4-7 April (2017), Cologne, Germany.
 19. F. Capuana, S. Padovan, C. Grange, V. Catanzaro, J. C. Cutrin, M. Stevanovic, N. Filipovic, G. Digilio, *Biocompatible Materials labelled with Microenvironment Responsive MRI Probes for the follow-up of Cell Transplants*, **13th European Molecular Imaging Meeting (EMIM)**, 20-23. March (2018), San Sebastián, Spain.

М 70 (6.0) Докторска дисертација:

Ненад Филиповић "Синтеза и карактеризација биокомпозита поли (ε-капролактон) / наночестице селена".

Факултет за физичку хемију 28.09.2018.

Научноистраживачки резултати др Ненада Филиповића

Индикатор	Категорија	Вредност индикатора	Број радова	Сума
M21a	Рад у међународном часопису изузетних вредности	10	2	20
M21	Рад у врхунском међународном часопису	8	4	32
M33	Саопштење са међународног скупа штампано у целини	1	1	1
M34	Саопштење са међународног скупа штампано у изводу	0,5	19	9,5
M70	Одбрањена докторска дисертација	6	1	6
Укупно				68.5

Минимални квантитативни захтеви за стицање звања научни сарадник и остварени резултати др Ненада Филиповића

За звање научни сарадник		Потребан услов $\geq$	Остварено
Укупно бодова		16	68.5
Обавезни (1)	M10+M20+M31+M32+M33+M41+M42	10	62.5
Обавезни (2)	M11+M12+M21+M22+M23	6	52

ПРИЛОГ 2 - ЦИТИРАНОСТ

Извештај о цитираности радова др Ненада Филиповића према индексним базама података *Web of Science* и *Scopus* на дан 3. 10. 2018.

Укупно 81 цитат, 72 хетероцитата
h-индекс = 4

1. [Multifunctional PLGA particles containing poly\(L-glutamic acid\)-capped silver nanoparticles and ascorbic acid with simultaneous antioxidative and prolonged antimicrobial activity](#)

By: Stevanovic, Magdalena; Bracko, Ines; Milenkovic, Marina; et al.

[ACTA BIOMATERIALIA](#) Volume: 10 Issue: 1 Pages: 151-162 Published: JAN 2014

Хетероцитати

1. Industrial-scale fabrication of an osteogenic and antibacterial PLA/silver-loaded calcium phosphate composite with significantly reduced cytotoxicity
By: Cai, S., Pourdeyhimi, B., Lobo, E.G.,
Journal of Biomedical Materials Research - Part B Applied Biomaterials,
<https://doi.org/10.1002/jbm.b.34185> Published: 2018
2. The poly-gamma-glutamate of *Bacillus subtilis* interacts specifically with silver nanoparticles.
By: Eymard-Vernain, E., Coute, Y., Adrait, A., Rabilloud, T., Sarret, G., Lelong, C.
PLoS ONE 13. <https://doi.org/10.1371/journal.pone.0197501> Published: 2018
3. [Biomedical Potential of Ultrafine Ag Nanoparticles Coated on Poly \(Gamma-Glutamic Acid\) Hydrogel with Special Reference to Wound Healing](#)
By: Wang, Yu; Dou, Chunyan; He, Guidong; et al.
[NANOMATERIALS](#) Volume: 8 Issue: 5 Article Number: 324 Published: MAY 2018
4. [Antimicrobial packaging based on starch, poly\(3-hydroxybutyrate\) and poly\(lactic-co-glycolide\) materials and application challenges](#)
By: Mlalila, Nichrous; Hilonga, Askwar; Swai, Hulda; et al.
[TRENDS IN FOOD SCIENCE & TECHNOLOGY](#) Volume: 74 Pages: 1-11 Published: APR 2018
5. Nanostructured composites based on biodegradable polymers and silver nanoparticles
By: Fufă, O., Vlăsceanu, G.M., Dolet, G., Cabuzu, D., Puiu, R.A., Cîrjă, A., Bogdan Nicoară, Grumezescu, A.M.
in: Handbook of Composites from Renewable Materials. pp. 585–621.
<https://doi.org/10.1002/9781119441632.ch144> Published: 2017
6. The in Vitro Degradation of PLGA/Nanoapatite/Lauric Acid Composite Membrane: A Comparative Study in Phosphate Buffer Saline and Simulated Body Fluid.
By: Jamuna-Thevi, K., Suleiman, M.J., Sabri, S.N.
Macromolecular Symposia 371, 101–106. <https://doi.org/10.1002/masy.201600048> Published: 2017
7. [Vitamin C-Conjugated Nanoparticle Protects Cells from Oxidative Stress at Low Doses but Induces Oxidative Stress and Cell Death at High Doses](#)
By: Chakraborty, Atanu; Jana, Nikhil R.
[ACS APPLIED MATERIALS & INTERFACES](#) Volume: 9 Issue: 48 Pages: 41807-41817
Published: DEC 6 2017
8. [A new approach for deposition of silver film from AgCl through successive ionic layer adsorption and reaction technique](#)
By: Henry, Johnson; Ajaypraveenkumar, Arockiasamy; Sivakumar, Ganesan; et al.
[JOURNAL OF CENTRAL SOUTH UNIVERSITY](#) Volume: 24 Issue: 12 Pages: 2793-2798
Published: DEC 2017

9. [Flow injection amperometric nitrite sensor based on silver microcubics-poly \(acrylic acid\)/poly \(vinyl alcohol\) modified screen printed carbon electrode](#)
By: Promsuwan, Kiattisak; Thayarungkul, Panote; Kanatharana, Proespichaya; et al.
[ELECTROCHIMICA ACTA](#) Volume: 232 Pages: 357-369 Published: APR 1 2017
10. [Visualization of silver-decorated poly \(DL-lactide-co-glycolide\) nanoparticles and their efficacy against Staphylococcus epidermidis](#)
By: Takahashi, Chisato; Matsubara, Nobuhiro; Akachi, Yuki; et al.
[MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS](#)
Volume: 72 Pages: 143-149 Published: MAR 1 2017
11. [Mechanism of Action: How Nano-Antimicrobials Act?](#)
By: Jamil, Bushra; Bokhari, Habib; Imran, Mohammad
[CURRENT DRUG TARGETS](#) Volume: 18 Issue: 3 Pages: 363-373 Published: 2017
12. [Effects of ascorbic acid on the physiochemical, rheological, and antioxidant properties of citrus essential oil-based emulsion stabilized by pectin](#)
By: Ettoumi, Khadidja Youce; Zouambia, Yamina; Moulai-Mostefa, Nadji
[JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY](#) Volume: 38 Issue: 1 Pages: 26-32
Published: 2017
13. [Antioxidant activity of levan coated cerium oxide nanoparticles](#)
By: Kim, Sun-Jung; Chung, Bong Hyun
[CARBOHYDRATE POLYMERS](#) Volume: 150 Pages: 400-407 Published: OCT 5 2016
14. [Cell proliferation on PVA/sodium alginate and PVA/poly\(gamma-glutamic acid\) electrospun fiber](#)
By: Yang, Jen Ming; Yang, Jhe Hao; Tsou, Shu Chun; et al.
[MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS](#)
Volume: 66 Pages: 170-177 Published: SEP 1 2016
15. [One pot preparation of silver nanoparticles decorated TiO₂ mesoporous microspheres with enhanced antibacterial activity](#)
By: Chen, Yuemei; Deng, Yuanming; Pu, Yitao; et al.
[MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS](#)
Volume: 65 Pages: 27-32 Published: AUG 1 2016
16. [Ultra-fine silver nanoparticles dispersed in mono-dispersed amino functionalized poly glycidyl methacrylate based microspheres as an effective anti-bacterial agent](#)
By: Deng, Yuanming; Li, Jiefeng; Pu, Yitao; et al.
[REACTIVE & FUNCTIONAL POLYMERS](#) Volume: 103 Pages: 92-98 Published: JUN 2016
17. [The potential of protein-nanomaterial interaction for advanced drug delivery](#)
By: Peng, Qiang; Mu, Huiling
[JOURNAL OF CONTROLLED RELEASE](#) Volume: 225 Pages: 121-132 Published: MAR 10 2016
18. [Silver nanoparticles well-dispersed in amine-functionalized, one-pot made vesicles as an effective antibacterial agent](#)
By: Deng, Yuanming; Li, Jiefeng; Yu, Junyan; et al.
[MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS](#)
Volume: 60 Pages: 92-99 Published: MAR 1 2016
19. [PLGA/DPPC/trimethylchitosan spray-dried microparticles for the nasal delivery of ropinirole hydrochloride: in vitro, ex vivo and cytocompatibility assessment](#)
By: Karavasili, Christina; Bouropoulos, Nikolaos; Sygellou, Lamprini; et al.
[MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS](#)
Volume: 59 Pages: 1053-1062 Published: FEB 1 2016
20. [Polyvinyl pyrrolidone/carrageenan blend hydrogels with nanosilver prepared by gamma radiation for use as an antimicrobial wound dressing](#)
By: Singh, Durgeshwer; Singh, Antaryami; Singh, Rita

- [JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION](#) Volume: 26 Issue: 17 Pages: 1269-1285 Published: NOV 22 2015
21. [Recent Developments in the Application of Polymeric Nanoparticles as Drug Carriers](#)
By: Moritz, Michal; Geszke-Moritz, Malgorzata
[ADVANCES IN CLINICAL AND EXPERIMENTAL MEDICINE](#) Volume: 24 Issue: 5 Pages: 749-758 Published: SEP-OCT 2015
 22. [Nanotoxicity: An Interplay of Oxidative Stress, Inflammation and Cell Death](#)
By: Khanna, Puja; Ong, Cynthia; Bay, Boon Huat; et al.
[NANOMATERIALS](#) Volume: 5 Issue: 3 Pages: 1163-1180 Published: SEP 2015
 23. [ENCAPSULATION OF L-ASCORBIC ACID WITHIN THE NATURAL BIOPOLYMER-GALACTOMANNAN-USING THE SPRAY-DRYING METHOD: PREPARATION, CHARACTERIZATION, AND EVALUATION OF ANTIOXIDANT ACTIVITY](#)
By: de Souza, Carlos A. G.; Siqueira, Sonia M. C.; de Amorim, Antonia F. V.; et al.
[QUIMICA NOVA](#) Volume: 38 Issue: 7 Pages: 877-883 Published: AUG 2015
 24. [Development of silver nanoparticles-loaded calcium alginate beads embedded in gelatin scaffolds for use as wound dressings](#)
By: Pankongadisak, Porntipa; Ruktanonchai, Uracha Rungsardthong; Supaphol, Pitt; et al.
[POLYMER INTERNATIONAL](#) Volume: 64 Issue: 2 Pages: 275-283 Published: FEB 2015
 25. [Effect of MRI tags: SPIO nanoparticles and 19F nanoemulsion on various populations of mouse mesenchymal stem cells](#)
By: Muhammad, Ghulam; Jablonska, Anna; Rose, Laura; et al.
[ACTA NEUROBIOLOGIAE EXPERIMENTALIS](#) Volume: 75 Issue: 2 Pages: 144-159 Published: 2015
 26. [Au nanoparticle-coated, PLGA-based hybrid capsules for combined ultrasound imaging and HIFU therapy](#)
By: Xi, Juqun; Qian, Xiaodong; Qian, Kehong; et al.
[JOURNAL OF MATERIALS CHEMISTRY B](#) Volume: 3 Issue: 20 Pages: 4213-4220 Published: 2015
 27. [Superparamagnetic PLGA-iron oxide microspheres as contrast agents for dual-imaging and the enhancement of the effects of high-intensity focused ultrasound ablation on liver tissue](#)
By: Zhou, Di; Sun, Yang; Zheng, Yuanyi; et al.
[RSC ADVANCES](#) Volume: 5 Issue: 45 Pages: 35693-35703 Published: 2015
 28. [Arginine-assisted immobilization of silver nanoparticles on ZnO nanorods: an enhanced and reusable antibacterial substrate without human cell cytotoxicity](#)
By: Agnihotri, Shekhar; Bajaj, Geetika; Mukherji, Suparna; et al.
[NANOSCALE](#) Volume: 7 Issue: 16 Pages: 7415-7429 Published: 2015
 29. [Hybrid poly\(lactic-co-glycolic acid\) nanoparticles: design and delivery perspectives](#)
By: Pandita, Deepti; Kumar, Sandeep; Lather, Viney
[DRUG DISCOVERY TODAY](#) Volume: 20 Issue: 1 Pages: 95-104 Published: JAN 2015
 30. Pharmaceutical Polymers: Bioactive and Synthetic Hybrid Polymers
By: Popescu, R.C., Grumezescu, A.M.
in: Handbook of Polymers for Pharmaceutical Technologies. pp. 315–340.
<https://doi.org/10.1002/9781119041559.ch14> Published: 2015
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У В Е Р Е Њ Е

Ненад Филиповић

име једног родитеља Раде, ЈМБГ 2511984730022, рођен 25.11.1984. године, Ниш, оштина Ниш-Медијана, Република Србија, уписан школске 2011/12. године, дана 28.09.2018. године завршио је докторске академске студије на студијском програму Физичка хемија, у трајању од три године, обима 180 (сто осамдесет) ЕСПБ бодова, са просечном оценом 9,43 (девет и 43/100).

На основу наведеног издаје му се ово уверење о стеченом високом образовању и научном називу доктор наука – физичкохемијске науке.



Проф. др Гордана Ђирић-Марјановић