

Научном већу
Института техничких наука САНУ
Кнез Михаилова 35/IV
11000 Београд

Предмет: МОЛБА ЗА ПОКРЕТАЊЕ ПОСТУПКА ЗА ИЗБОР У ЗВАЊЕ

Молим Научно веће Института техничких наука САНУ, да у складу са Правилником о поступку и начину вредновања, и квантитативном исказивању научно-истраживачких резултата истраживача (Службени Гласник РС, бр. 24/2016, 21/2017 и 38/2017) покрене поступак мог избора у звање **виши научни сарадник**.

За чланове комисије за припрему извештаја Научном већу предлажем:

1. Проф. др Владимира Павловића, редовног професора Пољопривредног факултета Универзитета у Београду
2. Академика Антонија Ђорђевића, редовног члана САНУ, редовног професора Електротехничког факултета Универзитета у Београду,
3. Др Смиљу Марковић, научног саветника Института техничких наука САНУ

У прилогу достављам:

1. Биографију,
2. Библиографију,
3. Извештај о цитираности,
4. Доказе о квалитативним условима,
5. Одлуку о стицању научног звања.

У Београду, 04. 05. 2020.

Подносилац молбе:

др Сузана Филиповић

научни сарадник ИТН САНУ

Стручна биографија

Филиповић (дев. Стевановић) Сузана рођена је 18. 02. 1981. године у Шапцу. Основну и средњу школу завршила је у Шапцу. Дипломирала је на Факултету за физичку хемију Универзитета у Београду, 2006. године, са просечном оценом 8,67, са темом „Утицај механичке активације на Раманове спектре BaTiO_3 “, чиме је стекла стручно звање дипломирани физикохемичар. Исте године уписала је мастер студије на Факултету за физичку хемију и завршила их 2007. године са темом завршног мастер рада „Промена специфичне површине порозног ZnO током синтеровања“. Школске 2009/10. године уписала је докторске академске студије на Факултету техничких наука у Чачку, студијски програм Електротехничко и рачунарско инжењерство, модул Савремени материјали и технологије у електротехници. Завршила је студије са просечном оценом 9,75 и одбранила докторску дисертацију под називом „Утицај механичке активације на својства MgO-TiO_2 електрокерамике“, 30. 01. 2015. године. Изабрана је у звање научни сарадник 30. 09. 2015. године одлуком бр. 660-01-00011/192 Министарства просвете, науке и технолошког развоја.

Запослена је у Институту техничких наука САНУ од 01. 12. 2006. године. Као научни сарадник учествовала је у реализацији пројекта који је финансирало Министарство просвете, науке и технолошког развоја Републике Србије и билатералне сарадње са Републиком Француском. Аутор и коаутор је више од 40 радова у научним часописима, као и више од 40 презентација на међународним и домаћим конференцијама. На основу података из Web of Science и Scopus индексних база цитираност радова је 250, хетероцитата 132 и h-index 8, на дан 19. 03. 2020.

Ужа области интересовања су јој испитивање утицаја механичке активације на синтезу и синтеровање електрокерамика, методе карактеризације материјала, наноструктурни материјали, мултифероични материјали, композитни материјали и оксидна керамика.

Добитник је награде за најбољу усмену презентацију на 4. конгресу за микроскопију одржаном 2010. године у Београду, коју додељује Српско друштво за микроскопију, за рад под називом *Structural analyses of sintered MT and BZT ceramics*, као и награде за најбољи рад у секцији додељене 2016. године на конференцији ЕТРАН за рад под називом *Measurement of permittivity of solid and liquid dielectrics in coaxial chambers*.

Рецензент је часописа *Science of Sintering*, *Journal of Alloys and Compounds*, *Journal of the Serbian Chemical Society*, *International Journal of Mechanical Sciences*, *Advanced Powder Technology*. Члан је организационог одбора међународне конференције Српског керамичког друштва *Advanced ceramics and application: New Frontiers in Multifunctional Material Science and Processing* од 2012. године.

Члан је уредништва међународног часописа *Science of Sintering*.

Члан је Српског керамичког друштва и Америчког керамичког друштва.

Библиографија

Радови публиковани пре покретања поступка избора у претходно звање, до фебруара 2015. године

Рад у врхунском међународном часопису M21

1. V. P. Pavlović, J. Krstić, M. J. Šćepanović, J. Dojčilović, D. M. Minić, J. Blanuša, **S. Stevanović**, V. Mitić, V. B. Pavlović, "Structural investigation of mechanically activated nanocrystalline BaTiO₃", *Ceramics International*, Vol. 37, (2011) p. 2513-2518. (<https://doi.org/10.1016/j.ceramint.2011.03.064>) IF: 1,751
2. N. Obradović, **S. Filipović**, V. Pavlović, M. Mitrić, S. Marković, V. Mitić, N. Đorđević and M. M. Ristić, "Isothermal sintering of barium-zinc-titanate ceramics", *Ceramics International*, Vol. 37, (2011) p. 21-27. (<https://doi.org/10.1016/j.ceramint.2010.07.001>) IF: 1,751
3. N. Obradović, N. Đorđević, **S. Filipović**, N. Nikolić, D. Kosanović, M. Mitrić, S. Marković, V. Pavlović, "Influence of mechanical activation on the sintering of cordierite ceramics in the presence of Bi₂O₃ as a functional additive", *Powder Technology*, Vol. 218, (2012) p. 157-161. (<https://doi.org/10.1016/j.powtec.2011.12.012>) IF: 2,024
4. **S. Filipović**, N. Obradović, J. Krstić, M. Šćepanović, V. Pavlović, V. Paunović, M. M. Ristić, "Structural characterization and electrical properties of sintered magnesium-titanate ceramics", *Journal of Alloys and Compounds*, Vol. 555, (2013) p. 39-44. (<https://doi.org/10.1016/j.jallcom.2012.12.040>) IF: 2,390
5. V. P. Pavlović, M. V. Nikolić, V.B. Pavlović, J. Blanuša, **S. Stevanović**, V. V. Mitić, M. Šćepanović, B. Vlahović, "Raman Responses in Mechanically Activated BaTiO₃", *Journal of the American Ceramic Society*, Vol. 97, (2014) p. 601-608. (<http://onlinelibrary.wiley.com/doi/10.1111/jace.12423/pdf>) IF: 2.579

Укупно ΣM21= 5x8 = 40

Рад у истакнутом међународном часопису M22

6. N. Obradović, N. Labus, T. Srećković, **S. Stevanović**, "Reaction Sintering of the 2ZnO-TiO₂ System", *Science of Sintering*, Vol. 39, (2007) p. 127-132. (<https://doi.org/10.2298/SOS0702127O>) IF: 0,481
7. N. Obradović, **S. Stevanović**, M. Mitrić, M. V. Nikolić, M. M. Ristić, "Analysis of isothermal sintering of zinc-titanate doped with MgO", *Science of Sintering*, Vol. 39, (2007) p. 241-248. (<https://doi.org/10.2298/SOS0703241O>) IF: 0,481
8. **S. Stevanović**, V. Zeljković, N. Obradović, N. Labus, "Investigation of sintering kinetics of ZnO by observing reduction of the specific surface area", *Science of*

- Sintering*, Vol. 39, (2007) p. 259-265. (<https://doi.org/10.2298/SOS0703259S>) IF:0,481
9. **S. Filipović**, N. Obradović, V. Petrović, "Influence of mechanical activation on structural and electrical properties of sintered MgTiO₃ ceramics", *Science of Sintering*, Vol. 41, (2009) p. 117-123. (<https://doi.org/10.2298/SOS0902117F>) IF:0,559
10. **S. Filipović**, N. Obradović, V. B. Pavlović, D. Kosanović, M. Mitrić, N. Mitrović, V. Pouchly, M. Kachlik, K. Maca, "Advantages of Combined Sintering Compared to Conventional Sintering of Mechanically Activated Magnesium Titanate", *Science of Sintering*, Vol. 46, (2014) p. 283-290. (<https://doi.org/10.2298/SOS1403283F>) IF:0,711

Укупно $\Sigma M22 = 5 \times 5 = 25$

Рад у часопису међународног значаја M23

11. N. Labus, **S. Stevanović**, M.M. Ristic, "Sintering of mechanically activated ZnO-TiO₂ powders", *Powder Metallurgy and Metal Ceramics*, Vol. 47, (2008) p. 40-46. (<https://doi.org/10.1007/s11106-008-0007-2>) IF: 0,249
12. N. Obradović, **S. Stevanović**, M.M. Ristić, "Analysis of nonisothermal sintering of zinc-titanate ceramics doped with MgO", *Powder Metallurgy and Metal Ceramics*, Vol. 47, (2008) p. 63-69. (<https://doi.org/10.1007/s11106-008-0010-7>) IF: 0,249
13. N. Obradović, **S. Stevanović**, V. Zeljković, M.M. Ristić, "Influence of ZnO specific surface area on its sintering kinetics", *Powder Metallurgy and Metal Ceramics*, Vol. 48, (2009) p. 182-185. (<https://doi.org/10.1007/s11106-009-9112-0>) IF: 0,263
14. M.M. Ristić, N. Obradović, **S. Filipović**, A.I. Bykov, M.A. Vasil'kovskaya, L.A. Klochkov, I.I. Timofeeva, "Formation of magnesium titanates", *Powder Metallurgy and Metal Ceramics*, Vol. 48, (2009) p. 371-374. (<https://doi.org/10.1007/s11106-009-9157-0>) IF: 0,263
15. **S. Filipović**, N. Obradović, V.B. Pavlović, S. Marković, M. Mitrić, M.M. Ristić, "Influence of mechanical activation on microstructure and crystal structure of sintered MgO-TiO₂ system", *Science of Sintering*, Vol. 42, (2010) p. 143-151. (<https://doi.org/10.2298/SOS100518002F>) IF: 0,403
16. N. Obradović, **S. Filipović**, V. Pavlović, V. Paunović, M. Mitrić, M.M. Ristić, "Structural and Electrical Properties of Sintered Barium-Zinc-Titanate Ceramics",

- Acta Physica Polonica A*, Vol. 120 (2), (2011) p. 322-325.
(<http://przyrbwn.icm.edu.pl/APP/PDF/120/a120z2p24.pdf>) IF: 0,444
17. N. Obradović, A. Terzić, Lj. Pavlović, **S. Filipović**, V. Pavlović, "Dehydration investigations of a refractory concrete using DTA method", *Journal of Thermal Analysis and Calorimetry*, Vol. 110, (2012) p. 37-41.
(<https://doi.org/10.1007/s10973-011-1880-3>) IF: 1,982
18. N. Obradović, **S. Filipović**, V.B. Pavlović, A. Maričić, N. Mitrović, I. Balać, M.M. Ristić, "Sintering of mechanically activated magnesium-titanate and barium-zinc-titanate ceramics", *Science of Sintering*, Vol. 43, (2011) p. 145-151.
(<https://doi.org/10.2298/SOS1102145O>) IF: 0,274
19. N. Obradovic, **S. Filipović**, M. Mitric, V. Pavlovic, V. Paunovic, D. Kosanovic, I. Balac, M. M. Ristic, "Influence of mechanical activation on electrical properties of barium-zinc-titanate ceramics sintered at 1100°C", *Powder Metallurgy and Metal Ceramics*, Vol. 50, (2012) p. 714-718. (<https://doi.org/10.1007/s11106-012-9380-y>) IF: 0,262
20. N.G. Djordjevic, N. Obradovic, **S. Filipović**, "Electrical properties of mechanically activated cordierite ceramics", *Powder Metallurgy and Metal Ceramics*, Vol. 51, (2012) p. 83-86. (<https://doi.org/10.1007/s11106-012-9400-y>) IF: 0,262
21. D. Kosanović, N. Obradović, J. Živojinović, **S. Filipović**, A. Maričić, V. Pavlović, Y. Tang, M.M. Ristić, "Mechanical-Chemical Synthesis $\text{Ba}_{0.77}\text{Sr}_{0.23}\text{TiO}_3$ ", *Science of Sintering*, Vol. 44, (2012) p. 47-55. (<https://doi.org/10.2298/SOS1201047K>) IF: 0,278
22. N. Obradovic, M.V. Nikolic, N. Nikolic, **S. Filipović**, M. Mitric, V. Pavlovic, P. M. Nikolic, A. R. Djordjevic, M. M. Ristic, "Synthesis of barium-zinc-titanate ceramic", *Science of Sintering*, Vol. 44, (2012) p. 65-71. (<https://doi.org/10.2298/SOS1201065O>) IF: 0,278
23. **S. Filipović**, N. Obradović, D. Kosanović, V. Pavlović, A. Đorđević, "Sintering of mechanically activated MgO-TiO₂ system", *Journal of Ceramic Processing Research*, Vol. 14, 1 (2013) p. 31-34. (<http://www.jcpr.or.kr/journal/archive/view/1349>) IF: 0,333

Укупно $\Sigma M23 = 13 \times 3 = 39$

Саопштење са међународног скупа штампано у изводу М34

24. **S. Stevanović**, V. Zeljković, "Reduction of the specific surface area of porous ZnO during sintering ", FITEM 07, Čačak, Programme and the book of abstracts, (2007) 34. (<http://dais.sanu.ac.rs/handle/123456789/633>)
25. N. Obradović, **S. Stevanović**, M. Mitrić, M.V. Nikolić, M.M. Ristić, "Analysis of isothermal sintering of zinc-titanate doped with MgO", FITEM 07, Čačak, Programme and the book of abstracts, (2007) 27. (<http://dais.sanu.ac.rs/handle/123456789/632>)
26. N. Obradović, **S. Stevanović**, V. Zeljković, M. M. Ristić, "Influence of ZnO specific surface area on its sintering kinetics" Materialovedenie tugoplavkih soedinenii: dostizheniya i problemy, Kiev, Ukraine, Programme and the book of abstracts, (2008) 106. (<http://dais.sanu.ac.rs/handle/123456789/61>)
27. **S. Stevanović**, N. Obradović, V. Pavlović, M. M. Ristić, "Influence of mechanical activation on MgO-TiO₂ system", YUCOMAT 2008, Herceg Novi, programme and the book of abstracts, (2008) 68. (<http://dais.sanu.ac.rs/handle/123456789/618>)
28. N. Obradović, **S. Stevanović**, V. Pavlović, M. M. Ristić, "Influence of mechanical activation on BaO-ZnO-TiO₂ system", YUCOMAT 2008, Herceg Novi, Programme and the book of abstracts, (2008) 67. (<https://www.mrs-serbia.org.rs/index.php/y2008/y2008b>)
29. N. Obradović, **S. Filipović**, M. M. Ristić, "Isothermal sintering of BZT ceramics" International Conference on Sintering, Kiev, Ukraine, Abstract book, (2009) 69. (<http://dais.sanu.ac.rs/handle/123456789/620>)
30. N. Djordjević, N. Obradović, **S. Filipović**, "Electrical properties of mechanochemically activated cordierite ceramics", International Conference on Sintering, Kiev, Ukraine, Abstract book, (2009) 103. (<http://dais.sanu.ac.rs/handle/123456789/621>)
31. M. M. Ristić, N. Obradović, **S. Filipović**, A. I. Bykov, M. A. Vasylovskaya, L. A. Klochkov, I. I. Tymofeeva, "Forming of magnesium titanate", International Conference on Sintering, Kiev, Ukraine, Abstract book, (2009) 121. (<http://dais.sanu.ac.rs/handle/123456789/622>)
32. **S. Filipović**, N. Obradović, A. I. Bykov, M. A. Vasylovskaya, L. A. Klochkov, I. I. Tymofeeva, "Phase formation on sintering of reacting oxides Ba, Zn, Ti" International Conference on Sintering, Kiev, Ukraine, Abstract book, (2009) 140. (<http://dais.sanu.ac.rs/handle/123456789/623>)

33. M. M. Ristić, **S. Filipović**, N. Obradović, "Isothermal sintering of mechanically activated MT ceramics", International Conference on Sintering, Kiev, Ukraine, Abstract book, (2009) 141. (<http://dais.sanu.ac.rs/handle/123456789/624>)
34. N. Obradović, **S. Filipović**, M. Mitrić, V. Pavlović, V. Paunović, M. M. Ristić, "Influence of mechanical activation on electrical properties of sintered barium-zinc-titanate", Material science of refractory compounds, Kiev, Ukraine, Conference abstracts, Maj 2010, p. 180. (<http://dais.sanu.ac.rs/bitstream/handle/123456789/625/622.pdf?sequence=1&isAllowed=y>)
35. N. Obradović, **S. Filipović**, V. Pavlović, V. Paunović, M. Mitrić, M. M. Ristić, "Structural and electrical properties of barium-zinc-titanate ceramics sintered at 1300°C", YUCOMAT 2010, programme and the book of abstracts, Septembar 2010, p. 118 (<https://www.mrs-serbia.org.rs/index.php/y2010/y2010b>)
36. D. Kosanović, **S. Filipović**, N. Obradović, V. Pavlović, M. M. Ristić, "Microstructure evolution and sintering kinetics of ZnO", 9th Young Researchers Conference, Belgrade, Serbia, Programme and the book of abstracts, Decembar 2010, p. 10. (<https://www.mrs-serbia.org.rs/index.php/9-yr-2010/9yr2010>)
37. N. Djordjević, N. Obradović, **S. Filipović**, D. Kosanović, M. Mitrić, S. Marković, V. Pavlović, "Influence of mechanochemical activation on sintering of cordierite ceramics with the presence of Bi₂O₃ as a functional additive", VII International Conference on Mechanochemistry and Mechanical Alloying, INCOME 2011, Herceg Novi, Montenegro, Programme and the book of abstracts, Avgust-Septembar 2011, p. 84. (<http://dais.sanu.ac.rs/handle/123456789/628>)
38. N. Obradović, A. Terzić, Lj. Pavlović, **S. Filipović**, V. Pavlović, "Dehydration kinetics investigation of refractory concrete during sintering using DTA method" 1st Central and Eastern European Conference on Thermal Analysis and Calorimetry, CEEC-TAC1, Craiova, Romania, Book of abstracts, Septembar 2011, p. 45. (<http://dais.sanu.ac.rs/handle/123456789/635>)
39. **S. Filipović**, N. Obradović, M. Šćepanović, V. B. Pavlović, V. Paunović, "Electrical properties of sintered Magnesium-titanate ceramics", The First Ceramic Society Conference "Advanced Ceramics and Application", Belgrade, Serbia, Programme and the book of abstracts, Maj 2012, p. 23. (<http://www.serbianceramicsociety.rs/doc/aca01-10/aca1/ACAI.pdf>)

40. N. Đorđević, N. Obradović, **S. Filipović**, J. Živojinović, M. Mitrić, S. Marković, "Influence of mechanical activation on the constituents of the MgO-Al₂O₃-SiO₂-TiO₂ system", The First Ceramic Society Conference "Advanced Ceramics and Application", Belgrade, Serbia, Programme and the book of abstracts, Maj 2012, p. 7. (<http://www.serbianceramicsociety.rs/doc/aca01-10/aca1/ACAI.pdf>)
41. N. Obradović, V. P. Pavlović, **S. Filipović**, D. Kosanović, V. B. Pavlović, "Kinetics of mechanically activated TiO₂-based oxides followed by DTA", The First Ceramic Society Conference "Advanced Ceramics and Application", Belgrade, Serbia, Programme and the book of abstracts, Maj 2012, p. 24. (<http://www.serbianceramicsociety.rs/doc/aca01-10/aca1/ACAI.pdf>)
42. J. Živojinović, D. Kosanović, N. Obradović, A. Peleš, N. Labus, **S. Filipović**, V. B. Pavlović, M. Mitrić, M. M. Ristić, "Dilatometric Analysis of Mechanically Activated SrTiO₃ Powder", Advanced ceramics and application II: New Frontiers in Multifunctional Material Science and Processing, 30.09.-01.10. Belgrade, Serbia, Program and the book of abstracts, (2013) 38. (<http://www.serbianceramicsociety.rs/doc/aca01-10/aca2/ACAIL.pdf>)
43. N. Đorđević, N. Obradović, A. Radosavljević-Mihajlović, B. Jokić, **S. Filipović**, M. Mitrić, S. Marković, "Influence of MoO₃ on sintering temperature of mechanically activated MgO-Al₂O₃-SiO₂ system", Advanced ceramics and application II: New Frontiers in Multifunctional Material Science and Processing, 30.09.-01.10. Belgrade, Serbia, Program and the book of abstracts, (2013) 40. (<http://www.serbianceramicsociety.rs/doc/aca01-10/aca2/ACAIL.pdf>)
44. **S. Filipović**, N. Obradović, J. Krstić, M. Šćepanović, V. Pavlović, M. M. Ristić, "Structural characterization of mechanically activated MgO-TiO₂", Advanced ceramics and application II: New Frontiers in Multifunctional Material Science and Processing, 30.09.-01.10. Belgrade, Serbia, Program and the book of abstracts, (2013) 40. (<http://www.serbianceramicsociety.rs/doc/aca01-10/aca2/ACAIL.pdf>)
45. A. Peleš, **S. Filipović**, N. Obradović, J. Krstić, V. Pavlović, "The Morphological Characterization of Mechanically Activated ZnO Powder", Advanced ceramics and application III: New Frontiers in Multifunctional Material Science and Processing, 30.09.-01.10. Belgrade, Serbia, Program and the book of abstracts, (2014) 92. (<http://www.serbianceramicsociety.rs/doc/aca01-10/aca3/ACAIII.pdf>)
46. **S. Filipović**, N. Obradović, V. B. Pavlović, D. Kosanović, M. Mitrić, V. Paunović, V. Pouchly, M. Kachlik, K. Maca, "Properties of Magnesium Titanate Ceramic Obtained

by Two Stage Sintering", Advanced ceramics and application III: New Frontiers in Multifunctional Material Science and Processing, 30.09.-01.10. Belgrade, Serbia, Program and the book of abstracts, (2014) 118. (<http://www.serbianceramicsociety.rs/doc/aca01-10/aca3/ACAIII.pdf>)

Укупно $\Sigma M34 = 26 \times 0,5 = 13$

Радови штампани у часопису националног значаја M52

47. N. G. Đorđević, N. N. Obradović, **S. Ž. Filipović**, "Kinetika mehanohemijske sinteze barijum-titanata", *Tehnika-Novi materijali*, **20:3** (2011) 367-371. (<http://scindeks.ceon.rs/article.aspx?query=ISSID%26and%269376&page=1&sort=8&stype=0&backurl=%2Fissue.aspx%3Fissue%3D9376>)
48. N. Đorđević, N. Obradović, **S. Filipović**, J. Živojinović, M. Mitrić, S. Marković, "Influence of Mechanical Activation on the Constituents of the MgO-Al₂O₃-SiO-TiO₂ System", *Tehnika –Novi materijali*, Vol. 21, (2012) p. 329-333. (http://www.itn.sanu.ac.rs/images/Djordjevic_Tehnika2012.pdf).
49. **S. Ž. Filipović**, N. N. Obradović, V. B. Pavlović, S. B. Marković, M. N. Mitrić, N. S. Mitrović, "Sinteza magnezijum titanata mehanohemijskom metodom", *Tehnika –Novi materijali*, Vol. 23, (2014) p. 727-731. (<https://scindeks.ceon.rs/article.aspx?query=ISSID%26and%2612109&page=0&sort=8&stype=0&backurl=%2Fissue.aspx%3Fissue%3D12109>)

Укупно $\Sigma M52 = 3 \times 1,5 = 4,5$

Радови штампани у часопису националног значаја M53

50. D. Kosanović, **S. Filipović**, N. Obradović, V. Pavlović, M. Ristić, "Microstructure evolution and sintering kinetics of ZnO", *Istrazivanja i Projektovanja za Privredu*, 9(2) (2011) 317-322, ISSN 1451-4117. (<http://scindeks.ceon.rs/article.aspx?artid=1451-41171102317K>)

Укупно $\Sigma M53 = 1 \times 1 = 1$

Саопштење са скупа националног значаја штампано у изводу M64

51. **S. Stevanović**, "Primena Ramanove spektroskopije u proučavanju mehaničke aktivacije BaTiO₃", PSMI-06, 25-26 decembar 2006., Beograd, Zbornik apstrakata i program, 22. (<http://dais.sanu.ac.rs/handle/123456789/637>)
52. N. Obradović, **S. Filipović**, V. Pavlović, "Structural analyses of sintered MT and BZT ceramics", 4th Serbian Congress for Microscopy, Belgrade, Serbia, Programme and the book of extended abstracts, Oktobar 2010, p. 75. (<http://dais.sanu.ac.rs/handle/123456789/636>)
53. **S. Filipović**, N. Obradović, V. B. Pavlović, A. Peleš, S. Marković, M. Mitrić, N. Mitrović, "Mehanohemijaska sinteza magnezijum titanata", 58. Konferencija ETRAN, 2-5. jun 2014. V. Banja, Zbornik apstrakata i program, 46. (<http://dais.sanu.ac.rs/handle/123456789/634>)

Укупно $\Sigma M64 = 3 \times 0,2 = 0,6$

Докторска дисертација M70

54. Сузана Филиповић, Утицај механичке активације на својства MgO-TiO₂ електрокерамике

(<http://www.itn.sanu.ac.rs/opus4/frontdoor/index/index/docId/885>)

Укупно $\Sigma M70 = 1 \times 6 = 6$

Квантификација научно истраживачких резултата др Сузане Филиповић насталих пре избора у звање научни сарадник:

Индикатор	Категорија	Вредност индикатора	Број радова	Укупно
M21	Рад у врхунском међународном часопису	8	5	40
M22	Рад у истакнутом међународном часопису	5	5	25
M23	Рад у часопису међународног значаја	3	13	39
M52	Рад штампан у часопису националног значаја	1,5	3	4,5
M53	Рад у научним часописима	1	1	1
M34	Саопштење са међународног скупа штампано у изводу	0,5	23	11,5

M64	Саопштење са скупа националног значаја штампано у изводу	0,2	3	0,6
M70	Одбрађена докторска дисертација	6	1	6
Укупно				127,6

Од покретања избора у звање научни сарадник фебруара 2015. године до марта 2020.

M14 Поглавље у тематском зборнику међународног значаја

55. S. Filipović, "Microwave Electro Ceramic Based on Magnesium Titanate Compounds", in: *Proceedings of the IV Advanced Ceramics and Applications Conference*. Atlantis Press, Paris, (2017) p. 135–153. ISBN: 978-94-6239-213-7 M14
4

https://doi.org/10.2991/978-94-6239-213-7_12

Укупно $\Sigma M14 = 1 \times 4 = 4$

M21a Радови у међународним часописима изузетних вредности

56. S. Filipović, N. Obradović, V.B. Pavlović, M. Mitrić, A. Đorđević, M. Kachlik, K. Maca, "Effect of consolidation parameters on structural, microstructural and electrical properties of magnesium titanate ceramics", *Ceramics International*, Vol. 42, (2016) p. 9887-9898. ISSN: 0272-8842;

<https://doi.org/10.1016/j.ceramint.2016.03.088>

IF= 2,986 M21a, 10; Materials Science, Ceramics 2/26

57. N. Obradović, S. Filipović, N. Đorđević, D. Kosanović, S. Marković, V. Pavlović, D. Olćan, A. Đorđević, M. Kahlick, K. Maca, "Effects of mechanical activation and two-step sintering on the structure and electrical properties of cordierite-based ceramics", *Ceramics International*, Vol. 42, (2016) p.13909-13918. ISSN: 0272-8842

<https://doi.org/10.1016/j.ceramint.2016.05.201>

IF= 2,986 M21a 10 (нормиран на 6,25); Materials Science, Ceramics 2/26

58. N. Obradović, S. Filipović, S. Marković, M. Mitrić, J. Rusmirović, A. Marinković,

V. Antić, V. B. Pavlović, "Influence of different pore-forming agents on wollastonite microstructures and adsorption capacity", *Ceramics International*, Vol. 43, (2017), p. 7461-7468. ISSN: 0272-8842

<https://doi.org/10.1016/j.ceramint.2017.03.021>

IF=3,057 M21a **10** (нормиран на **8,33**); Materials Science, Ceramics 2/27

59. N. Obradović, W.G. Fahrenholtz, **S. Filipović**, D. Kosanović, A. Dapčević, A. Đorđević, I. Balać, V.B. Pavlović, "The effect of mechanical activation on synthesis and properties of MgAl₂O₄ ceramics", *Ceramics International*, Vol. 45, (2019) p. 12015-12021. ISSN: 0272-8842

<https://doi.org/10.1016/j.ceramint.2019.03.095>

IF=3,450 M21a **10** (нормиран на **8,33**); Materials Science, Ceramics 2/28

Укупно $\Sigma M21a = 4 \times 10 = 40$ / (**после нормирања $\Sigma M21a = 32,91$**)

M21 Радови у врхунским међународним часописима

60. A. Peleš, V. P. Pavlović, **S. Filipović**, N. Obradović, L. Mančić, J. Krstić, M. Mitrić, B. Vlahović, G. Rašić, D. Kosanović, V. B. Pavlović, "Structural investigation of mechanically activated ZnO powder", *Journal of Alloys and Compounds*, Vol. 648, (2015), p. 971-979. ISSN: 0925-8388

<https://doi.org/10.1016/j.jallcom.2015.06.247>

IF=3,133 M21 **8** (нормиран на **4,44**); Materials Science, Multidisciplinary 58/271

61. **S. Filipović**, V. P. Pavlović, N. Obradović, V. Paunović, K. Maca, V. B. Pavlović, "The impedance analysis of sintered MgTiO₃ ceramics", *Journal of Alloys and Compounds*, Vol. 701, (2017) p.107-115. ISSN: 0925-8388

<https://doi.org/10.1016/j.jallcom.2017.01.117>

IF=3,779 M21 **8** ; Materials Science, Multidisciplinary 62/285

62. **S. Filipović**, V. P. Pavlović, M. Mitrić, S. Lević, N. Mitrović, A. Maričić, B. Vlahović, V. B. Pavlović, "Synthesis and characterization of BaTiO₃/α-Fe₂O₃ core/shell structure", *Journal of Advanced Ceramics*, Vol. 8, (2019) p. 133-147. ISSN: 2226-4108

<https://doi.org/10.1007/s40145-018-0301-5>

IF=2,300 M21 **8** (нормиран на **6,67**); Materials Science, Ceramics 6/28

63. **S. Filipović**, N. Obradović, S. Marković, M. Mitrić, I. Balać, A. Đorđević, V. Pavlović, "The effect of ball milling on properties of manganese-doped alumina", *Advanced Powder Technology*, Vol. 30 (2019) p.2533-2540. ISSN: 0921-8831

<https://doi.org/10.1016/j.appt.2019.07.033>

IF=3,250 M21 **8**; Engineering, Chemical 41/138

64. N. Obradović, V. Blagojević, **S. Filipović**, N. Đorđević, D. Kosanović, S. Marković, M. Kachlik, K. Maca, V. Pavlović, "Kinetics of thermally activated processes in cordierite-based ceramics", *Journal of Thermal Analysis and Calorimetry*, Vol. 138, (2019) p. 2989–2998. ISSN:1388-6150

<https://doi.org/10.1007/s10973-018-7924-1>

IF=2,471 M21 **8** (нормиран на **5,71**); Thermodynamics 16/60

Укупно $\Sigma M21 = 5 \times 8 = 40$ / (**после нормирања $\Sigma M21 = 32,82$**)

M22 Радови у истакнутим међународним часописима

65. N. Obradović, N. Đorđević, A. Peleš, **S. Filipović**, M. Mitrić, V. B. Pavlović, "The Influence of Compaction Pressure on the Density and Electrical Properties of Cordierite-based Ceramics", *Science of Sintering*, Vol. 47, (2015) p. 15-22. ISSN:0350-820X

DOI: [10.2298/SOS1501015O](https://doi.org/10.2298/SOS1501015O)

IF=0,781 M22 **5**; Materials Science, Ceramics 15/27

66. N. Obradović, N. Đorđević, **S. Filipović**, S. Marković, D. Kosanović, M. Mitrić, V. Pavlović, "Reaction kinetics of mechanically activated cordierite-based ceramics studied via DTA", *Journal of Thermal Analysis and Calorimetry*, Vol. 124 (2), (2016) p. 667-673. ISSN:1388-6150

<https://doi.org/10.1007/s10973-015-5132-9>

IF=1,781 M22 **5**; Thermodynamics 22/58

67. N. Obradović, **S. Filipović**, N. Đorđević, D. Kosanović, V. Pavlović, D. Olćan, A. Đorđević, M. Kachlik, K. Maca, "Microstructural and Electrical Properties of Cordierite-based Ceramics Obtained After Two-step Sintering Technique", *Science of Sintering*, Vol. 48, (2016) p. 157-165. ISSN:0350-820X

<https://doi.org/10.2298/SOS1602157O>

IF=0,736 M22 **5** (нормиран на **3,57**); Materials Science, Ceramics 15/26

Укупно $\Sigma M22 = 3 \times 5 = 15$ / (**после нормирања $\Sigma M22 = 13,57$**)

M23 Радови у међународним часописима

68. A. Đorđević, D. Olćan, N. Obradović, V. Paunović, **S. Filipović**, V. Pavlović, "Electrical Properties of Magnesium Titanate Ceramics Post Sintered by Hot Isostatic Pressing", *Science of Sintering*, Vol. 49, (2017) p. 373 – 380. ISSN:0350-820X
doi: <https://doi.org/10.2298/SOS1704373D>
IF=0,667 M23 3; Materials Science, Ceramics 17/27
69. N. Obradović, **S. Filipović**, J. Rusmirović, G. Postole, A. Marinković, D. Radić, V. Rakić, V. B. Pavlović, A. Auroux, "Formation of Porous Wollastonite-based Ceramics after Sintering With Yeast as the Pore-forming Agent", *Science of Sintering*, Vol. 49, (2017) p. 235-246. ISSN:0350-820X
<https://doi.org/10.2298/SOS1703235O>
IF=0,667 M23 3 (нормиран на 2,14); Materials Science, Ceramics 20/27
70. **S. Filipović**, N. Obradović, S. Marković, A. Đorđević, I. Balać, A. Dapčević, J. Rogan, V. B. Pavlović, "Physical Properties of Sintered Alumina Doped with Different Oxides", *Science of Sintering*, Vol.50, (2018) p. 409-419. ISSN:0350-820X
<https://doi.org/10.2298/SOS1804409F>
IF=0,885 M23 3 (нормиран на 2,5); Materials Science, Ceramics 17/28
71. N. Obradović, W. G. Fahrenholtz, S. Filipović, C. Corlett, P. Đorđević, J. Rogan, P. J. Vulić, V. Buljak, V. Pavlović, "Characterization of MgAl₂O₄ sintered ceramics", *Science of Sintering*, Vol. 51, (2019) p. 363- 376. ISSN:0350-820X
<https://doi.org/10.2298/SOS1904363O>
IF=0,885 M23 3 (нормиран на 2,14); Materials Science, Ceramics 17/28

Укупно $\Sigma M23 = 4 \times 3 = 12$ (после нормирања $\Sigma M23 = 9,78$)

M29a Уређивање међународног научног часописа

72. Dr Suzana Filipović, EDITORIAL BOARD SECRETARIAT

<http://ojs.itn.sanu.ac.rs/index.php/scisint/about/editorialTeam>

Укупно $\Sigma M29a = 1 \times 1,5 = 1,5$

M32 Предавање по позиву са међународног скупа штампано у изводу

73. **S. Filipović**, N. Obradović, W. G. Fahrenholtz, B. A. Marinković, J. Rogan, S. Lević, V. B. Pavlović, Morphological and structural characterization of spinel MgAl_2O_4 , Advanced Ceramics and Applications VIII, 23-25 September, Belgrade, Serbia, Programme and the book of abstracts, (2019), p. 32. **1,5**
<http://www.serbianceramicsociety.rs/doc/aca01-10/aca8/ACA-VIII-Conference-Program-And-The-Book-Of-Abstracts.pdf>

Укупно $\Sigma \text{M32} = 1 \times 1,5 = 1,5$

M34 Саопштење са међународног скупа штампано у изводу

74. N. Obradović, N. Đorđević, D. Kosanović, **S. Filipović**, S. Marković, M. Mitrić, V. Pavlović, Reaction kinetics of mechanically activated cordierite ceramics studied via DTA, 3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry, CEEC-TAC3, Ljubljana, Slovenia, Book of abstracts, (2015), p. 195. **0,5**
<http://www.ceec-tac.org/conf3/publication.html>
75. **Suzana Filipović**, N. Obradović, V. B. Pavlović, D. Kosanović, M. Mitrić, V. Paunović, V. Pouchly, M. Kachlik, K. Maca, "The effect of Hot Isostatic Pressing on the MT sample densities ", Advanced ceramics and application IV: New Frontiers in Multifunctional Material Science and Processing, Belgrade, Serbia, Program and the book of abstracts, (2015), p. 55. 0,5 (нормиран на **0,36**)
<http://www.serbianceramicsociety.rs/doc/ACA-IV.pdf>
76. N. Đorđević, N. Obradović, **S. Filipović**, D. Kosanović, S. Marković, M. Mitrić, V. B. Pavlović, "Influence of Mechanical Activation on the $\text{MgO-Al}_2\text{O}_3\text{-SiO}_2$ System with TeO_2 ", YUCOMAT 2016, Herceg Novi, Montenegro, Programme and the book of abstracts, (2016), p. 75. **0,5**
<http://www.mrs-serbia.org.rs/index.php/yucomat-books-of-abstracts/yucomat-2016-b>
77. N. Mitrović, **S. Filipović**, J. Orelj, A. Kalezić-Glišović, S. Đukić, "Electrical Properties of Mechanically Activated Magnesium-titanate Ceramics", Book of Abstracts, YUCOMAT 2016 Conference Herceg Novi, Materials Research Society of Serbia, , 978-86-919111-1-9, Herceg Novi, Crna Gora, 5. - 10. Sep, (2016), p. 75. **0,5**
<http://www.mrs-serbia.org.rs/index.php/yucomat-books-of-abstracts/yucomat-2016-b>

78. N. Obradović, **S. Filipović**, S. Marković, M. Mitrić, V. Antić, V. B. Pavlović, *"Influence of different pore-forming agents on wollastonite microstructures"*, The Fifth Serbian Ceramic Society Conference "Advanced Ceramics and Application", Belgrade, Serbia, Program and the book of abstracts, (2016), p. 42. **0,5**
<http://www.serbianceramicsociety.rs/doc/aca01-10/aca5/ACA-V-Program-and-book-of-abstracts.pdf>
79. J. Rusmirović, A. Marinković, N. Obradović, **S. Filipović**, D. Radić, V. Pavlović, *"Adsorption capacity of wollastonite based adsorbents with porous structure controlled with different porogen agents"*, The Fifth Serbian Ceramic Society Conference "Advanced Ceramics and Application", Belgrade, Serbia, Program and the book of abstracts, (2016), p. 62. **0,5**
<http://www.serbianceramicsociety.rs/doc/aca01-10/aca5/ACA-V-Program-and-book-of-abstracts.pdf>
80. A. Đorđević, J. Dinkić, M. Stevanović, D. Olćan, **S. Filipović**, N. Obradović, *"Measurement of permittivity of solid and liquid dielectrics in coaxial chambers"*, 60th Conference on Electrical, Electronic and Computing Engineering ETRAN 2016, Zlatibor, Serbia, June 13-16, (2016) paper AP1.2. **0,5**
<http://dais.sanu.ac.rs/123456789/2319>
<http://etran.etf.rs/etran2016/nagrade2016.htm>
81. N. Obradović, D. Kosanović, **S. Filipović**, J. Rusmirović, A. Marinković, D. Radić, V. Pavlović, *"Preparation of cordierite-based adsorbents for water purification"*, Advanced ceramics and application VI - New frontiers in multifunctional material science and processing, Belgrade, Serbia, Program and the book of abstracts, (2017), p.71. **0,5**
<http://www.serbianceramicsociety.rs/doc/aca01-10/aca6/ACA-VI-Program-and-Book-of-Abstracts.pdf>
82. N. Obradović, N. Đorđević, **S. Filipović**, D. Kosanović, S. Marković, V. Blagojević, V. Pavlović, *"Kinetics and thermodynamics of thermally activated processes in cordierite-based ceramics"*, 4th Central and Eastern European Conference on Thermal Analysis and Calorimetry, CEEC-TAC4, Chisinau, Moldova, Book of abstracts, (2017) . **0,5**
<http://www.ceec-tac.org/conf4/welcome.html>
83. N. Obradović, N. Đorđević, D. Kosanović, **S. Filipović**, M. Kachlik, K. Maca, D. Olćan, A. Đorđević, *"Characterization of pressure-less sintered MgO-Al₂O₃-SiO₂-*

TeO₂", YUCOMAT 2017, Herceg Novi, Montenegro, Programme and the book of abstracts, (2017) . **0,50** (нормиран на **0,41**)

<http://www.mrs-serbia.org.rs/index.php/yucomat-book-of-abstracts>

84. D. Olćan, N. Obradović, S. Filipović, A. Terzić, V. Pavlović, M. Kachlík, K. Maca, A. Đorđević, "Assessing electrical properties of ceramic samples", Advanced ceramics and application VI - New frontiers in multifunctional material science and processing, (2017), p. 51 – 52. **0,50** (нормиран на **0,41**)

<http://www.serbianceramicsociety.rs/doc/aca01-10/aca6/ACA-VI-Program-and-Book-of-Abstracts.pdf>

85. **S. Filipović**, N. Obradović, S. Marković, A. Đorđević, A. Dapčević, J. Rogan, V. Pavlović, "Sintering of alumina doped with different oxides, followed by sensitive dilatometer", YUCOMAT 2018, Herceg Novi, Montenegro, Programme and the book of abstracts, (2018), p. 95. **0,5**

<https://www.mrs-serbia.org.rs/index.php/yucomat-2018/announcement>

86. **S. Filipović**, N. Obradović, S. Marković, M. Mitrić, A. Đorđević, A. Dapčević, J. Rogan, V. Pavlović, Effects of ball-milling on properties of sintered alumina doped with Mn₂O₃, Advanced Ceramics and Applications VII, 17-19 September, Belgrade, Serbia, Programme and the book of abstracts, (2018), p. 75. **0,50** (нормиран на **0,41**)

<http://www.serbianceramicsociety.rs/doc/aca01-10/aca7/ACA-VII-Book-of-Abstracts.pdf>

87. N. Obradović, W. Fahrenholtz, **S. Filipović**, D. Kosanović, A. Dapčević, J. Rogan, V. Pavlović, The effect of mechanical activation on synthesis and properties of MgAl₂O₄ ceramics, XVI ECerS Conference, 16-20 June, Torino, Italy, Programme and the book of abstracts, (2019), p. 262. **0,5**

<http://dais.sanu.ac.rs/123456789/7022>

88. **S. Filipović**, N. Obradović, S. Marković, I. Balać, A. Đorđević, V. Pavlović, Electrical and mechanical properties of alumina doped with transition metal oxides sintered at 1400°C, XVI ECerS Conference, 16-20 June, Torino, Italy, Programme and the book of abstracts, (2019), p. 682. **0,5**

<http://dais.sanu.ac.rs/123456789/7025>

89. N. Obradović, W. G. Fahrenholtz, **S. Filipović**, S. Marković, V. Blagojević, S. Lević, A. Đorđević, V. Pavlović, "Influence of mechanical activation on kinetics and formation of spinel monitored by DTA", 5th Central and Eastern European

Conference on Thermal Analysis and Calorimetry & 14th Mediterranean Conference on Calorimetry and Thermal Analysis, 27-30 August, Roma, Italy, Programme and the book of abstracts, (2019), p. 70. **0,50 (нормиран на 0,41)**

http://dais.sanu.ac.rs/bitstream/handle/123456789/7020/Obradovic_BoA%20CEEC-TAC5.pdf?sequence=1

90. N. Obradović, W. G. Fahrenholtz, **S. Filipović**, P. Đorđević, S. Marković, J. Rogan, P. J. Vulić, V. B. Pavlović, Characterization of MgAl_2O_4 sintered ceramics, Advanced Ceramics and Applications VIII, 23-25 September, Belgrade, Serbia, Programme and the book of abstracts, (2019), p. 54. **0,50 (нормиран на 0,41)**

<http://www.serbianceramicsociety.rs/doc/aca01-10/aca8/ACA-VIII-Conference-Program-And-The-Book-Of-Abstracts.pdf>

91. N. Obradović, W. G. Fahrenholtz, **S. Filipović**, P. Đorđević, J. Rogan, V. Pavlović, "Effect of Mechanical Activation on the Densification Behavior of MgAl_2O_4 Spinel", The 13th Pacific Rim Conference of Ceramic Societies (PACRIM13) October 27 - November 1, Okinawa Convention Center, Japan, (2019), 30-B1C-S13-14. **0,5**

<http://dais.sanu.ac.rs/123456789/7050>

Укупно $\Sigma M_{34} = 18 \times 0,5 = 9$ (**после нормирања $\Sigma M_{34} = 8,41$**)

M52 Радови у часописима националног значаја

92. **S. Filipović**, N. Obradović, N. Đorđević, D. Kosanović, S. Marković, M. Mitrić, V. Pavlović, "Uticaj mehaničke aktivacije na sistem $\text{MgO-Al}_2\text{O}_3\text{-SiO}_2$ u prisustvu aditiva TeO_2 ", *Tehnika-Novi materijali*, Vol. 25, (2016) p.797-802. ISSN: 0354-2300 M52 **1,5**

<http://scindeks-clanci.ceon.rs/data/pdf/0040-2176/2016/0040-21761606797F.pdf>
doi:10.5937/tehnika1606797F

93. A. Đorđević, J. Dinkić, M. Stevanović, D. Olćan, **S. Filipović**, N. Obradović, "Measurement of Permittivity of Solid and Liquid Dielectrics in Coaxial Chambers", *Microwave Review*, Vol. 22, (2016) p. 3-9. ISSN:1450-5835 M52 **1,5**

<http://dais.sanu.ac.rs/123456789/2319>

Укупно $\Sigma M_{52} = 2 \times 1,5 = 3$

Услов за стицање звања

Сабирање бодова по категоријама

- Поглавље у тематском зборнику међународног значаја

$M14 = 1 \times 4 = 4$ Поглавље у тематском зборнику међународног значаја

$\Sigma M10 = (M14) 4 = 4$

- Радови објављени у научним часописима међународног значаја, научна критика; уређивање часописа (M20):

$M21a = 4 \times 10 = 40$ / (**после нормирања $\Sigma M21a = 32,91$**) Рад у међународном часопису изузетних вредности

$M21 = 5 \times 8 = 40$ / (**после нормирања $\Sigma M21 = 32,82$**) Врхунски међународни часопис

$M22 = 3 \times 5 = 15$ / (**после нормирања $\Sigma M22 = 13,57$**) Истакнути међународни часопис

$M23 = 4 \times 3 = 12$ / (**после нормирања $\Sigma M23 = 9,78$**) Међународни часопис

$M29a = 1 \times 1,5 = 1,5$ на годишњем нивоу: а) Уређивање међународног часописа

$\Sigma M20 = (M21a) 40/32,91 + (M21) 40/32,82 + (M22) 15/13,57 + (M23) 12/9,78 = 107/89,08$

- Зборници са међународних научних скупова (M30):

$M32 = 1 \times 1,5 = 1,5$ Предавање по позиву са међународног скупа штампано у изводу

$M34 = 18 \times 0,5 = 9$ / (**после нормирања $\Sigma M34 = 8,41$**) Саопштење са међународног скупа штампано у изводу

$\Sigma M30 = (M32) 1,5 + (M34) 9/8,41 = 10,5/ 9,91$

- Радови у часописима националног значаја (M50):

$M52 = 2 \times 1,5 = 3$ Рад у часопису националног значаја

$\Sigma M50 = (M52) 3 = 3$

Врста и квантификација научних резултата др Сузана Филиповић насталих након избора у звање научни сарадник:

Ознака групе	Број радова	Вредност индикатора	Укупна вредност
M14	1	4	4
M21a	4	10	40/32,92*
M21	5	8	40/32,82*
M22	3	5	15/13,57*
M23	4	3	12/9,79*
M29a	1	1,5	1,5
M32	1	1,5	1,5
M34	18	0,5	9/8,41*
M52	2	1,5	3
Укупно			126/107,51*

*нормирани радови са бројем аутора преко 7 по формули $k/(1+0,2(n-7))$

Критеријуми за избор у научно звање виши научни сарадник

Потребан услов	Остварено
$M10+M20+M31+M32+M33+M41+M42+M90 \geq 40$	$M10+M20+M31+M32+M33+M41+M42+M90=111/93,08^*$
$M11+M12+M21a+M21+M22+M23 \geq 30$	$M11+M12+M21a+M21+M22+M23=\underline{107/89,08}$
Укупно: 50	Укупно: 126/107,51*

*нормирани радови са бројем аутора преко 7 по формули $k/(1+0,2(n-7))$

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By: [Obradovic, N.](#); [Dordevic, N.](#); [Filipovic, S.](#); et al.

[POWDER TECHNOLOGY](#) Volume: 218 Pages: 157-161 Published: MAR 2012

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By: [Obradovic, Nina](#); [Filipovic, Suzana](#); [Dordevic, Natasa](#); et al.

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By: [Pavlovic, V. P.](#); [Krstic, J.](#); [Scepanovic, M. J.](#); et al.

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By: [Filipovic, S.](#); [Obradovic, N.](#); [Krstic, J.](#); et al.

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By: [Kosanovic, D.](#); [Obradovic, N.](#); [Zivojinovic, J.](#); et al.

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By: [Obradovic, N.](#); [Dordevic, N.](#); [Peles, A.](#); et al.

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By: [Filipovic, Suzana](#); [Obradovic, Nina](#); [Markovic, Smilja](#); et al.

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16. [Sintering of Mechanically Activated Magnesium-titanate and Barium-zinc-titanate Ceramics](#)

By: [Obradovic, N.](#); [Filipovic, S.](#); [Pavlovic, V. B.](#); et al.

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By: [Obradovic, N.](#); [Stevanovic, S.](#); [Mitric, M.](#); et al.

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Structural investigation of mechanically activated ZnO powder



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ABSTRACT

Commercially available ZnO powder was mechanically activated in a planetary ball mill. In order to investigate the specific surface area, pore volume and microstructure of non-activated and mechanically activated ZnO powders the authors performed N₂ physisorption, SEM and TEM. Crystallite size and lattice microstrain were analyzed by X-ray diffraction method. XRD patterns indicate that peak intensities are getting lower and expand with activation time. The reduction in crystallite size and increasing of lattice microstrain with prolonged milling time were determined applying the Rietveld's method. The difference between non-activated and the activated powder has been also observed by X-ray photoelectron spectroscopy (XPS). XPS is used for investigating the chemical bonding of ZnO powder by analyzing the energy of photoelectrons. The lattice vibration spectra were obtained using Raman spectroscopy. In Raman spectra some changes along with atypical resonant scattering were noticed, which were caused by mechanical activation.

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1. Introduction

Due to its wide direct band gap (3.37 eV) and large excitation binding energy at room temperature, ZnO is a very good semiconductor material and an important ceramic material for application in gas sensors, catalysis, solar cells and transducers [1–6]. With its wurtzite structure improved ZnO characteristics, such as smaller and more uniform particle size, are desirable properties for its application in multilayer ceramic capacitors and varistor, as well [7]. It is well known that the structural, morphological, and electronic properties of ZnO particles depend not only on the specific crystal structure, composition, and morphology of the oxide particles, but also on defect in their structure [8]. A nanosized powder with uniform particle size distribution and controlled particle morphology is highly desirable.

There are many methods which can produce this type of powder such as microemulsions, colloidsynthesis routes, sol–gel methods and spray pyrolysis, ion implantation, laser ablation etc. for the

preparation of various nanostructures and homogenization [1]. Among these methods, to produce nanocrystalline powder and to improve the functional properties, mechanical activation has been employed, due to its simplicity, shortened time of sample preparation and low-cost.

Mechanical activation processes are used to modify the properties of materials, to enhance the reactivity of materials and to produce advanced materials etc. The reactivity of materials is dependent on different parameters such as activation time (duration time of milling process of powder) and type of energy mill. Also the different atmosphere, where the milling process is performed, has a big influence on reactivity of the material. Mechanical activation by grinding, as a method for modifying the physical and chemical properties of powder materials, is often used in powder technology [9,10]. Specific changes that occur during grinding have a great influence on final properties of the obtained material, also improving their specific application. Mechanical activation by grinding requires a few processes and mainly occurs in four stages. In the first stage there is a destruction of material than in the second stage it can be observed a formation of a new surface on the material which is destroyed. Next stage is fine grinding and finally

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2. Доказ о руковођењу пројектним задацима

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Србија

Допис о руковођењу поројектима и учешћу у пројектним задацима

др Сузана Филиповић

Овим потврђујем да је у оквиру пројекта 172057 ОИ – Усмерена синтеза, структура и својства мултифункционалних материјала, финансираног од стране Министарства просвете, науке и технолошког развоја Републике Србије од 2011. до 2019. године, а којим сам руководио, др Сузана Филиповић руководила подпројектним задатком: Проучавање параметара синтезе и консолидације на функционална својства електрокерамичких материјала. Такође, у оквиру пројекта француско-српске билатералне сарадње “Интелигентни еко-материјали и нанокомпозити“ под бројем 4510339/2016/09/03, а у периоду 2016-2017.год, руководила је истраживањима везаним за оптимизацију параметара синтезе нанокомпозита на бази прекерамичких полимера.

Др Сузана Филиповић је учесник у међународној сарадњи са Централним Универзитетом у Чешкој Републици чији је руководилац prof. dr. Karel Maca, (Central European Institute of Technology, Brno University of Technology, Brno, Czech Republic). Ова сарадња обухвата истраживања из области савремених метода синтеровања, из које је пристекло неколико радова категорија M21a, M21, M22 и саопштења на међународним скуповима.

Др Сузана Филиповић учествује и у међународној сарадњи са Центром за истраживање материјала Универзитета у Мисурију (prof. dr. William Fahrenholtz, Missouri University of Science and Technology, USA). У оквиру ове сарадње испитује се утицај параметара синтезе и консолидације на добијање ултра густе спинелне керамике магнезијум алумината. На основу ове сарадње остварени су значајни резултати који су публиковани у више међународних радова.

Др Сузана Филиповић је иницијатор сарадње са Институтом за физику, пољске Академије наука (dr hab. Lukasz Kilanski, Institute of Physics, Polish Academy of Sciences, Warsaw, Poland). У оквиру сарадње испитују се магнетна својства мултифероичних материјала. Из ове сарадње проистекло је неколико радова који су у процесу рецензије у међународним часописима.

Београд, 06.03.2020.

С поштовањем,



Проф. др Владимир Павловић
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Србија

Допис о учешћу др Сузана Филиповић у уређивању међународног часописа

Овим потврђујем да је др Сузана Филиповић члан уређивачког одбора међународног часописа *Science of Sintering*, који издаје Друштво ЕТРАН, а чији сам главни уредник. Др Сузана Филиповић је наведена у листи уређивачког тима поменутог часописа (**EDITORIAL BOARD SECRETARIAT**), линк је наведен у наставку:

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Београд, 06.03.2020.

С поштовањем,



Проф. др Владимир Павловић
научни саветник ИТН САНУ,
редовни професор Пољопривредног
факултета Универзитета у Београду

Science of SINTERING, the Journal of the International Institute for the Science of Sintering is published four times a year.

The purpose of the Journal is to provide a suitable medium for the publication of papers on theoretical and experimental studies, which can contribute to the better understanding of the behaviour of powders and similar materials during consolidation processes. Emphasis is laid on those aspects of advanced materials that are concerned with the thermodynamics, kinetics and mechanism of sintering and related processes.

In accordance with the significance of disperse materials for the sintering technology, papers dealing with the question of ultradisperse powders, tribochemical activation and catalysis are also published.

Abstracting/Indexing: *SciSearch (Science Citation Index – Expanded, ISI Alerting Services, Materials Science Citation Index); Cambridge Scientific Abstracts; Chemical Abstract Service; Referativnyi Zhurnal VINITI; INSPEC.*

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ДИЕЛЕКТРИКА У КОАКСИЈАЛНИМ КОМОРАМА“

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A handwritten signature in black ink, appearing to read 'Predrag Petkovic'.

Др Предраг Петковић

Председник Председништва

A handwritten signature in black ink, appearing to read 'Dejan Popovic'.

Др Дејан Поповић, академик САНУ

Кладово, 7. јуна 2017. године



Научном већу
Института техничких наука САНУ

Потврда

Овим се потврђује да је др Сузана Филиповић, научни сарадник Института техничких наука САНУ, члан Српског Керамичког Друштва (Serbian Ceramic Society) од 2009. године, које наставља традицију Југословенског Керамичког Друштва од 1997. године. Српско Керамичко Друштво је члан Светске Керамичке Федерације (ICF) и придружени члан Америчког Керамичког Друштва (Endorsed society of American Ceramic Society), а такође у свом раду има пуну подршку Европске академије наука и уметности у Салцбургу.

Одлуком Управног одбора СКД од 6. Априла 2011. године, др Сузана Филиповић је изабрана за Председника секције СКД „Млади истраживачи“. Члан организационо научног одбора међународних конференција *Advanced ceramics and Application* организованих од 2012. до 2019. године у Београду.

У Београду, март 2020.

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Subject **[JSCS] Article Review Acknowledgement**
From Dr. Bojan Radak <jscs-ec@shd.org.rs>
To Dr Suzana Filipović <suzana.filipovic@itn.sanu.ac.rs>
Date 2019-09-06 11:01



Dear Dr Suzana Filipović,

Thank you very much for your thorough reviewing the manuscript "Fenton process combined with precipitation for the removal of Direct Blue 1 dye: A new approach," for Journal of the Serbian Chemical Society. We are very grateful for your time and appreciate your contribution to the quality of the paper that we publish.

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Dr. Bojan Radak
Serbian Radiation and Nuclear Safety and Security Directorate SRBATOM
jscs-ec@shd.org.rs
JSCS : : Environmental Chemistry Sub Editor

Journal of the Serbian Chemical Society
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Subject **Thank you for reviewing manuscript Thermomechanical modelling of ceramic pressing and subsequent sintering**

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Ms. Ref. No.: JALCOM-D-16-07809

Title: Mixing Behavior and Microwave Dielectric Properties of (1-x)Ba_{3.75}Nd_{9.5}Cr_{0.25}Nb_{0.25}Ti_{17.5}O₅₄-xNdAlO₃ Solid Solutions
Journal of Alloys and Compounds

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Комисија за стицање научних звања

Број:660-01-00011/192

30.09.2015. године

Београд

На основу члана 22. става 2. члана 70. став 5. Закона о научноистраживачкој делатности ("Службени гласник Републике Србије", број 110/05 и 50/06 – исправка и 18/10), члана 2. става 1. и 2. тачке 1 – 4.(прилози) и члана 38. Правилника о поступку и начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача ("Службени гласник Републике Србије", број 38/08) и захтева који је поднео

Инстџиуџи џехничких наука САНУ у Београду

Комисија за стицање научних звања на седници одржаној 30.09.2015. године, донела је

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О СТИЦАЊУ НАУЧНОГ ЗВАЊА**

Др Сузана Филићовић

стиче научно звање

Научни сарадник

у области природно-математичких наука - хемија

О Б Р А З Л О Ж Е Њ Е

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научни саветник

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