

ИНСТИТУТ ТЕХНИЧКИХ НАУКА

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 и начину вредновања, и квантитативном исказивању научно-истраживачких резултата истраживача (Сл. Гласник РС, бр.24/2016, 21/2017, и 38/2017) покрене поступак мог избора у звање научни сарадник.

За чланове комисије за припрему извештаја Научном Већу предлажем:

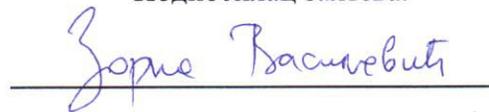
- др Марија Весну Николић, научног саветника Института мултидисциплинарних истраживања
- др Смиљу Марковић, научног саветника Института техничких наука САНУ
- др Небојшу Лабуса, вишег научног сарадника Института техничких наука САНУ

У прилогу достављам:

1. Биографију
2. Библиографију
3. Извештај о цитираности радова (*Scopus* и *Web of Science*)
4. Уверење о стицању звања доктора наука-технолошко инжењерство-текстилно инжењерство

У Београду 09.10.2019.

Подносилац захтева:



Др Зорка Васиљевић,

Истраживач сарадник ИТН САНУ

## БИОГРАФИЈА

Кандидат Зорка Васиљевић (девојачко презиме Ђурић), доктор инжењер технологије-технолошко инжењерство-инжењерство материјала, рођена је 6. 10. 1987. године у Београду. Земунску гимназију природно-математичког смера завршила је 2006. године, након чега је уписала Технолошко-металуршки факултет Универзитета у Београду. Дипломирала је 2010. године на Катедри за хемијско инжењерство, одсек Фармацеутско инжењерство, са просечном оценом 8,86. Исте године уписала је мастер студије, смер Хемијско инжењерство. Мастер рад је одбранила 2011. године и завршила мастер студије са просечном оценом 10. Докторске студије уписала је шк. 2011/12. године на Технолошко-металуршком факултету, на смеру Инжењерство материјала, а докторску дисертацију под називом „Синтеза, структура, карактеризација и фотоелектрохемијска примена дебелих слојева псеудобрукита,  $\text{Fe}_2\text{TiO}_5$ “, завршила је докторске академске студије 20.09.2019.

Кандидат Зорка Васиљевић је 29.01.2013. стекла звање истраживач сарадник, а потом реизабрана априла 2017. године. На породилском одсуству и одсуству ради неге детета је била у периоду 1. 7. 2014 – 1. 7. 2015. године и у периоду 5. 11. 2017 – 5. 11. 2018. године. Активно се служи енглеским језиком и поседује основно знање француског језика.

Кандидат Зорка Васиљевић је од априла 2012. године до данас ангажована на пројекту Министарства просвете, науке и технолошког развоја Републике Србије (број пројекта ИИИ 45007) под називом „0-3Д наноструктуре за примену у електроници и обновљивим изворима енергије: синтеза, карактеризација, процесирање“, под руководством др Горана Бранковића.

Области интересовања су јој: нанотехнологије, наноматеријали, хибридни материјали, полупроводници, карактеризација материјала, фотоелектрохемијске ћелије, фотокатализа, сензори гасова

## ПРИЛОГ 1-БИБЛИОГРАФИЈА

### Рад у међународном часопису изузетних вредности (M21a)

1. M. V. Nikolic, **Z. Z. Vasiljevic**, M. D. Lukovic, Vera P. Pavlovic, J. Vujancevic, M. Radovanovic, J. B. Krstic, B. Vlahovic, V. B. Pavlovic, *Humidity sensing properties of nanocrystalline pseudobrookite ( $Fe_2TiO_5$ ) based thick films*, Sensors & Actuators: B. Chemical 277 (2018) 654–664, <http://dx.doi.org/10.1016/j.snb.2018.09.063>, (IF:6,393)

### Рад у врхунском међународном часопису (M21)

2. **Zorka Z. Djuric**, Obrad S. Aleksic, Maria V. Nikolic, Nebojsa Labus, Milan Radovanovic, Miloljub D. Lukovic, *Structural and electrical properties of sintered  $Fe_2O_3/TiO_2$  nanopowder mixtures*, Ceramics International 40 (2014) 15131-15141, <http://dx.doi.org/10.1016/j.ceramint.2014.06.126>, (IF:2,758)
3. **Zorka Z. Vasiljevic**, Miloljub D. Lukovic, Maria V. Nikolic, Nikola B. Tasic, Miodrag Mitric, Obrad S. Aleksic, *Nanostructured  $Fe_2O_3/TiO_2$  thick films: Analysis of structural and electronic properties*, Ceramics International 41 (2015) 6889–6897, <http://dx.doi.org/10.1016/j.ceramint.2015.01.141>, (IF:2,758)

### Рад у истакнутом међународном часопису (M22)

4. O. S. Aleksic, M. V. Nikolic, M. D. Lukovic, N. Nikolic, B. Radojicic, M. Radovanovic, **Z. Z. Djuric**, M. Mitric, P. M. Nikolic, *Preparation and characterization of Cu and Zn modified nickel manganite NTC powders and thick film thermistors*, Materials Science and Engineering B-Advanced Functional Solid-State Materials, 178 (2013) 202-210, <http://dx.doi.org/10.1016/j.mseb.2012.11.003>, (IF: 2,122)
5. Nikolić, Maria Vesna, **Zorka Ž. Vasiljević**, Miloljub D. Luković, Vera P. Pavlović, Jugoslav B. Krstić, Jelena Vujančević, Nenad Tadić, Branislav Vlahović, Vladimir B. Pavlović, *Investigation of  $ZnFe_2O_4$  Spinel Ferrite Nanocrystalline Screen - printed Thick Films for Application in Humidity Sensing*, International Journal of Applied Ceramic Technology 16 (981-993) 2019, <https://doi.org/10.1111/ijac.13190> (IF:1,074)
6. M. V. Nikolic, M. D. Lukovic, **Z. Z. Vasiljevic**, N. J. Labus, O. S. Aleksic, *Humidity sensing potential of  $Fe_2TiO_5$ —pseudobrookite*, Journal of Materials Science: Materials in Electronics 29 (2018) 9227-9238, <https://doi.org/10.1007/s10854-018-8951-1>, (IF:2,195)
7. M. V. Nikolic, D. L. Sekulic, **Z. Z. Vasiljevic**, M. D. Lukovic, V. B. Pavlovic, O. S. Aleksic, *Dielectric properties, complex impedance and electrical conductivity of  $Fe_2TiO_5$  nanopowder compacts and bulk samples at elevated temperatures*, Journal of Materials Science: Materials in Electronics, 28 (2017) 4796-4806, <https://doi.org/10.1007/s10854-016-6125-6>, (IF:2,195)

8. O. S. Aleksić, **Z. Ž. Vasiljević**, M. Vujković, M. Nikolić, N. Labus, M. D. Luković, M. V. Nikolić, *Structural and electronic properties of screen-printed  $Fe_2O_3/TiO_2$  thick films and their photoelectrochemical behavior*, Journal of Materials Science 52 (2017) 5938-5953, <https://doi.org/10.1007/s10853-017-0830-2>, (IF:2,195)

**Рад у часопису од националног значаја (M23)**

9. S. V. Dordevic, G. M. Foster, N. Stojilovic, E. A. Evans, Z. G. Chen, Z. Q. Li, M. V. Nikolic, **Z. Z. Djuric**, S. S. Vujatovic, P. M. Nikolic, *Magneto-optical effects in  $Bi_{1-x}As_x$  with  $x = 0.01$ : Comparison with topological insulator  $Bi_{1-x}Sb_x$  with  $x = 0.20$* , Physica Status Solidi B 251 (2014) 1510-1514, <http://dx.doi.org/10.1002/pssb.201451091>, (IF:1,469)
10. P. M. Nikolic, K. M. Paraskevopoulos, T. T. Zorba, **Z. Z. Djuric**, E. Pavlidou, S. S. Vujatovic, V. Blagojevic, O. S. Aleksic, M. V. Nikolic, *Far infrared reflectivity spectra of lead-telluride doped with Mn and Yb*, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 7 (2013) 362-366, <http://dx.doi.org/10.1155/2015/283782>, (IF:0,449)
11. N. Labus, S. Mentus, **Z. Z. Đurić**, M. V. Nikolić, *Influence of nitrogen and air atmosphere during thermal treatment on micro and nano sized powders and sintered  $TiO_2$  specimens*, Science of sintering 46 (2014) 365-375, <http://dx.doi.org/10.2298/SOS1403365L>, (IF:0,781)
12. N. Labus, S. Mentus, S. Rakić, **Z. Z. Đurić**, J. Vujančević, M.V. Nikolić, *Reheating of Zinc-titanate Sintered Specimens*, Science of Sintering, 47 (2015) 71-81, <http://dx.doi.org/10.2298/SOS1501071L>, (IF:0,781)
13. Ivana T. Kostić, Vesna Lj. Ilić, Katarina M. Bukara, Slavko B. Mojsilović, **Zorka Ž. Đurić**, Petra Drašković, Branko M. Bugarski, *Flow cytometric determination of osmotic behaviour of animal erythrocytes toward their engineering for drug delivery*, HEMIJSKA INDUSTRIJA, 69 (2015) 67-76, <http://dx.doi.org/10.2298/HEMIND140124021K>, (IF:0,437)
14. N. Labus, **Z. Z. Vasiljević**, D. Vasiljević-Radović, S. Rakić, M. V. Nikolić, *Two step sintering of  $ZnTiO_3$  nanopowder*, Science of Sintering 49 (2017) 51-60, <https://doi.org/10.2298/SOS1701051L>, (IF:0,781)
15. N. Labus, **Z. Vasiljević**, O. Aleksić, M. Luković, S. Marković, V. Pavlović, S. Mentus, M. V. Nikolić, *Characterisation of  $Mn_{0.63}Zn_{0.37}Fe_2O_4$  powders after intensive milling and subsequent thermal treatment*, Science of Sintering 49 (2017) 455-467, <http://dx.doi.org/10.2298/SOS1704455L>, (IF:0,781)

**Рад објављен у часопису међународног значаја верификован посебном одлуком Министарства (M24)**

16. Aleksić O. S., Đurić Z. Z., Nikolić M. V., Tasić N., Vuković M., Marinković Stanojević Z., Nikolić N., Nikolić P. M., *Nanostructured Fe<sub>2</sub>O<sub>3</sub>/TiO<sub>2</sub> thick films prepared by screen printing*, Processing and Application of Ceramics 7 (2013): 129-134 (ISSN: 1820-6131)

**Саопштење са међународног скупа штампано у целини (M33)**

1. M. V. Nikolic, O. S. Aleksic, B. M. Radojicic, M. D. Lukovic, N. Nikolic, **Z. Djuric**, *Optimization and Application of NTC Thick Film Segmented Thermistors*, Key Engineering Materials, 543 (2013) 491-494, <http://dx.doi.org/10.4028/www.scientific.net/KEM.543.491>
2. Goran Miskovic, Obrad S Aleksic, Maria V Nikolic, Johann Nicolics, Goran Radosavljevic, **Zorka Z Vasiljevic**, Miloljub D Lukovic, Walter Smetana, *Nanostructured SnO<sub>2</sub> thick films for gas sensor application: analysis of structural and electronic properties*, IOP Conference Series: Materials Science and Engineering 108 (2016) 012003 <http://dx.doi.org/10.1088/1757-899X/108/1/012003>
3. Goran Miskovic, Miloljub D. Lukovic, Maria Vesna Nikolic, **Zorka Z. Vasiljevic**, Johann Nicolics, Obrad S. Aleksic, *Analysis of electronic properties of pseudobrookite thick films with possible application for NO gas sensing*, Electronics Technology (ISSE), 2016 pp. 386–391. <http://dx.doi.org/10.1109/ISSE.2016.7563226>
4. M. D. Lukovic, M. V. Nikolic, **Z. Z. Vasiljevic**, N. Blaz, S. Lukovic, O. S. Aleksic, *Impedance response of pseudobrookite thick films with a sandwich configuration*, 2017 40th International Spring Seminar on Electronics Technology (ISSE), 2017, 1-5, <http://dx.doi.org/10.1109/ISSE.2017.8000886>
5. G. Miskovic, M. V. Nikolic, M. D. Lukovic, **Z. Z. Vasiljevic**, J. Nicolics, O. S. Aleksic, *Pseudobrookite thick films for potential application as low-temperature sensitive material in NO gas sensors*, 2017 40th International Spring Seminar on Electronics Technology (ISSE), 2017, 1-6, <http://dx.doi.org/10.1109/ISSE.2017.8000881>
6. M. V. Nikolic, M. Lukovic, **Z.Z. Vasiljevic**, J. Vujancevic, *Application of Nanocrystalline Pseudobrookite (Fe<sub>2</sub>TiO<sub>5</sub>) Thick Films for Humidity Sensing*, Proceedings of the International Spring Seminar on Electronics Technology, 2018, <http://dx.doi.org/10.1109/ISSE.2018.8443672>
7. M. V. Nikolic, M. D. Lukovic, M. Dojcinovic, **Z. Z. Vasiljevic**, N. J. Labus, *Application of Iron Manganite Thick Films for Humidity Sensing*, 42nd International Spring Seminar on Electronics Technology (ISSE) 15-19 May 2019, <https://doi.org/10.1109/ISSE.2019.8810291>
8. M. V. Nikolic, M. Dojcinovic, M. D. Lukovic, **Z. Z. Vasiljevic**, N. J. Labus, *Nanocomposite Zn<sub>2</sub>SnO<sub>4</sub>/SnO<sub>2</sub> Thick films as a Humidity Sensing Material*, 2019 IEEE International Conference on Flexible and Printable Sensors and Systems (FLEPS) 8-10 July 2019, <https://doi.org/10.1109/FLEPS.2019.8792304>

**Саопштење са међународног скупа штампано у изводу (M34):**

1. **Đurić Z. Z.**, Aleksić O. S., Nikolić M. V., Nikolić N., Branković G. B., Nikolić P. M., *Structural, morphological and optical study of nanostructured TiO<sub>2</sub>/Fe<sub>2</sub>O<sub>3</sub> thick film*, Book of Abstracts / The 45th International October Conference on Mining and Metallurgy, Bor Lake, Bor (Serbia), October 2013, Program and the book of abstracts, p. 389
2. Luković M., **Vasiljević Z.**, Aleksić O., Nikolić M.V., Tasić N., *Electronic properties of pseudobrookite nanostructured thick films*, Book of Abstracts / 3rd Conference of the Serbian Society for Ceramic Materials, 3CSCS-2015, Belgrade (Serbia) 15th – 17th June 2015, Program and the book of abstracts, p. 111
3. **Vasiljević Z.**, Nikolić M.V., Aleksić O. S., Labus N., Luković M. D., Marković S., Nikolić P. M., *Structural and electronic properties of pseudobrookite*, Book of Abstracts / 3rd Conference of The Serbian Ceramic Society for Ceramic Materials, Belgrade (Serbia) 15th – 17th June 2015, Program and the book of abstracts, p.98
4. Aleksić O. S., Milutinov P., Nikolić M.V., Blaž N., Luković M. D., **Vasiljević Z.**, Marković S., Živanov Lj. D., *Tailoring the microstructure of Mn-Zn ferrite to electronic properties*, Book of Abstracts / 3rd Conference of The Serbian Ceramic Society for Ceramic Materials, Belgrade (Serbia) 15th – 17th June 2015, Program and the book of abstracts, p. 101
5. **Zorka Z. Vasiljevic**, Miloljub D. Lukovic, Maria Vesna Nikolic, Milica Vujkovic, Jelena Vujancevic, Vladimir B. Pavlovic, Obrad S. Aleksic, *Photoelectrochemical water splitting behavior of nanostructured Fe<sub>2</sub>TiO<sub>5</sub> thick films prepared by a solid state reaction*, The 4th Conference of the Serbian Society for Ceramic Materials (Belgrade, Serbia), 14-16 June 2017, Program and the book of abstracts, p.100
6. **Zorka Z. Vasiljevic**, Maria Vesna Nikolic, Miloljub D. Lukovic, Milica Vujkovic, Jelena Vujancevic, Vladimir B. Pavlovic, Obrad S. Aleksic, *Photoelectrochemical water splitting potential of ZnFe<sub>2</sub>O<sub>4</sub> thick films*, The 4th Conference of the Serbian Society for Ceramic Materials (Belgrade, Serbia), 14-16 June 2017, Program and the book of abstracts, p.99
7. M. D. Lukovic, M. V. Nikolic, N. Blaz, M. Milutinov, Z. Z. Vasiljevic, N. Labus, O. S. Aleksic, *Structural, electrical and magnetic properties of mechanically activated manganese and zinc ferrite*, The 4th Conference of the Serbian Society for Ceramic Materials (Belgrade, Serbia), 14-16 June 2017, Program and the book of abstracts, p. 102
8. **Zorka Z. Vasiljevic**, Milena Dojcinovic, Jelena Vujancevic, Smilja Markovic, Nenad Tadic, Maria V. Nikolic, *Influence of Co<sup>2+</sup> ions on photocatalytic properties of MgFe<sub>2</sub>O<sub>4</sub> ferrites*, The 5th Conference of the Serbian Society for Ceramic Materials (Belgrade, Serbia), 11-13 June 2019, Program and the book of abstracts, p. 73
9. Maria V. Nikolic, Miloljub D. Lukovic, Milena Dojcinovic, **Zorka Z. Vasiljevic**, *NANOCRYSTALLINE SnO<sub>2</sub>-Zn<sub>2</sub>SnO<sub>4</sub> COMPOSITE THICK FILMS APPLIED AS*

- HUMIDITY SENSORS*, The 5th Conference of the Serbian Society for Ceramic Materials (Belgrade, Serbia), 11-13 June 2019, Program and the book of abstracts, p. 82
10. **Zorka Z. Vasiljevic**, Milena Dojcinovic, Jelena Vujancevic, Nenad Tadic, Maria V. Nikolic, NANOCRYSTALLINE IRON-MANGANITE ( $\text{FeMnO}_3$ ) APPLIED FOR HUMIDITY SENSING, The 5th Conference of the Serbian Society for Ceramic Materials (Belgrade, Serbia), 11-13 June 2019, Program and the book of abstracts, p. 94
  11. **Zorka Z. Vasiljevic**, Milena P. Dojcinovic, Jelena Vujancevic, Nenad B. Tadic, Maria Vesna Nikolic, The effect of pH on visible-light photocatalytic properties of pseudobrookite nanoparticles, Twenty first YUCOMAT 2019 & Eleventh WRTCS 2019 (Herceg Novi) September 2-6 2019, Program and the book of abstracts, p. 130
  12. **Zorka Z. Vasiljevic**, Milena P. Dojcinovic, Vera P. Pavlovic, Jelena Vujancevic, Nenad B. Tadic, Maria Vesna Nikolic, Structure, morphology and photocatalytic properties of  $\text{Co}_x\text{Mg}_{1-x}\text{Fe}_2\text{O}_4$  ( $0 < x < 1$ ) spinel ferrites obtained by sol-gel synthesis, Twenty first YUCOMAT 2019 & Eleventh WRTCS 2019 (Herceg Novi) September 2-6 2019, Program and the book of abstracts, p. 126

#### **Докторска дисертација – М70**

**Зорка Васиљевић „Синтеза, структура, карактеризација и фотоелектрохемијска примена дебелих слојева псеудобрукита,  $\text{Fe}_2\text{TiO}_5$ “.**

Технолошко-металуршки факултет 20.09.2019.

## ПРИЛОГ 2-ЦИТИРАНОСТ

**Извештај о цитираност радова др Зорке Васиљевић према базама података *Web of Science* и *Scopus* на дан октобра 2019.**

Укупно цитата: 77, *h*-индекс: 5

Хетероцитати: 42

Коцитати: 6

Аутоцитати: 29

### **1. Preparation and characterization of Cu and Zn modified nickel manganite NTC powders and thick film thermistor**

By O. S. Aleksic, M.V. Nikolic, M.D. Lukovic, Z. Djuric, et al.

**MATERIALS SCIENCE AND ENGINEERING B** Volume: 178 Issue: 3 Pages: 202-210

Published: FEB 2013

Хетероцитати:

1. [Preparation and characterization of Ni<sub>0.6</sub>Mn<sub>2.4</sub>O<sub>4</sub> NTC ceramics by solid-state coordination reaction](#)  
By Chengjian Ma, Yunfei Liu, Yinong Lu, et al.  
[Journal of Materials Science: Materials in Electronics](#), Volume: 24, Pages: 5183-5188,  
Published: DEC 2013
2. [Flexible miniaturized nickel oxide thermistor arrays via inkjet printing technology](#)  
By Chun-Chih Huang, Zhen-Kai Kao, Ying-Chih Liao, et al.  
[ACS Applied Materials & Interfaces](#), Volume: 5, Pages: 12954-9, Published: DEC 2013
3. [Electrical properties of Ba<sub>0.7</sub>Bi<sub>0.3</sub>Fe<sub>0.9</sub>Sn<sub>0.1</sub>O<sub>3</sub>-BaCo<sub>0.02</sub>IICo<sub>0.04</sub>IIIBi<sub>0.94</sub>O<sub>3</sub> thick film thermistors with wide-range adjustable parameters](#)  
By CHANGLAI YUAN, YUN YANG, YING LUO, et al.  
[Bulletin of Materials Science](#), Volume: 37, Pages: 263-271, Published: APR 2014
4. [Effect of Zn substitution on the phase, microstructure and electrical properties of Ni<sub>0.6</sub>Cu<sub>0.5</sub>Zn<sub>x</sub>Mn<sub>1.9-x</sub>O<sub>4</sub> \(0≤x≤1\) NTC ceramics](#)  
By Chengjian Ma, Yunfei Liu, Yinong Lu, et al.  
[Materials Science and Engineering B](#), Volume: 188, Pages: 66-71, Published: OCT 2014
5. [Study on electrical properties and microstructures of CuO and BaCo<sub>0.02</sub>IICo<sub>0.04</sub>IIIBi<sub>0.94</sub>O<sub>3</sub> co-doped Ba<sub>0.5</sub>Bi<sub>0.5</sub>Fe<sub>0.9</sub>Sn<sub>0.1</sub>O<sub>3</sub> thick film thermistors](#)  
By C. -L. Yuan, X.-Y. Liu, et al.

- Rengong Jingti Xuebao/Journal of Synthetic Crystals, Volume: 43, Issue: 5, Pages: 1199-1205, Published: MAY 2014
6. Nickel oxide coated carbon nanoparticles as temperature sensing materials  
By Chun-Chih Huang, Pei-Chen Su, Hao-Ming Hsiao, et al  
Materials Chemistry and Physics, Volume: 148, Pages: 305-310, Published: NOV 2014
  7. Phase transition and electrical properties of  $\text{Ni}_{1-x}\text{Zn}_x\text{Mn}_2\text{O}_4$  ( $0 \leq x \leq 1.0$ ) NTC ceramics  
By Fei Cheng, Junhua Wang, Huimin Zhang, et al.  
Journal of Materials Science: Materials in Electronics, Volume: 26, Pages: 1374-1380, Published: MARCH 2015
  8. Effect of  $\text{Ba}_{0.5}\text{Bi}_{0.5}\text{Fe}_{0.9}\text{Sn}_{0.1}\text{O}_3$  addition on electrical properties of thick-film thermistors  
By YANG Yun, Chang-lai YUAN, Guo-hua CHEN, et al.  
Transactions of Nonferrous Metals Society of China, Volume: 25, Pages: 4008-4017, Published: DEC 2015
  9. Effect of CuO Addition on the Microstructural and Electrical Properties of Ni-Mn Oxide NTC Thermistor  
By Kyeong-Min Kim, Sung-Gap Lee, et al.  
Journal of the Korean Institute of Electrical and Electronic Material Engineers, Volume: 29, Pages: 337-341, Published: JUNE 2016
  10. DFT simulation on the temperature-dependent electronic transition of V (Nb or Ta) substituted  $\text{NiMn}_2\text{O}_4$   
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На основу члана 29. Закона о општем управном поступку и службене евиденције, Универзитет у Београду – Технолошко-металуршки факултет, издаје

## У В Е Р Е Њ Е

**Зорка Васиљевић**

име једној родитеља Живадин, ЈМБГ 0610987715297, рођена 06.10.1987. године, Београд, Савски венац, Република Србија, уписана школске 2011/12. године, дана 20.09.2019. године завршила је Докторске академске студије на студијском програму Инжењерство материјала, обима 182 (сто осамдесет два) ЕСПБ бодова са просечном оценом 9,67 (девет и 67/100).

Наслов докторске дисертације:

"Синтеза, структура, карактеризација и фотоелектрохемијска примена дебелих слојева псеудобрукита,  $\text{Fe}_2\text{TiO}_5$ ".

На основу тога издаје се уверење о стеченом научном називу Доктор наука-технолошко инжењерство-инжењерство материјала.

