

# Violeta Nikolić

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## EDUCATION

2016.            PhD in Chemistry and Chemical Technology  
Faculty of Technology and Metallurgy, University of Belgrade  
Belgrade, Serbia
2005.            BSc in Chemical Engineering  
Faculty of Technology and Metallurgy, University of Belgrade  
Belgrade, Serbia

## EMPLOYMENT HISTORY

- |               |                                  |   |
|---------------|----------------------------------|---|
| 2022– present | <b>Assistant Professor</b>       | Union – Nikola Tesla University<br>Faculty of Ecology and Environmental<br>Protection<br>Belgrade, Serbia |
| 2022.         | <b>Research Associate</b>        | Institute for Multidisciplinary Research<br>University of Belgrade  |
| 2006 – 2018.  |                                  | Belgrade, Serbia  |
| 2017.         | <b>Research Associate</b>        | Institute for Multidisciplinary Research  |
| 2013.         | <b>Research Assistant</b>        | (Former: Center for Multidisciplinary Studies)  |
| 2010.         | <b>Research Assistant</b>        | University of Belgrade  |
| 2006.         | <b>Junior Research Assistant</b> | Belgrade, Serbia  |

## RESEARCH PROJECTS

- 2011–2018. TR34026 Geopolymers – Technology for converting the industrial waste into functional materials, participant, national project was financed by the Ministry of Education, Science and Technological Development of the Republic of Serbia.
- 2008–2010. TR19001 Geopolymers – new materials based on fly ash within the frame of sustainable development concept, participant, national project was financed by the Ministry of Science and Technological Development of the Republic of Serbia.
- 2005–2007. TR6720B Development of new types of hydraulic binders based on fly ash from thermal power plants, participant, national project was financed by the Ministry of Science and Environmental Protection of the Republic of Serbia.
- 2017–2018. DS-2016-0051, Fiber reinforced alkali-activated composites (properties and durability aspects), participant, Multilateral Research Project with Brno University of Technology and Technical University Vienna, was financed by the Ministry for Education, Science and Technological Development, Republic of Serbia.
- 2016–2018. E!9980 INBYCON, Innovative use of local by-products for environmentally friendly construction products, participant, project from the EUREKA program was financed by the Ministry of Education, Science and Technological Development of the Republic of Serbia.
- 2013–2017. COST Action TU1301, NORM for Building Materials, NORM4BUILDING, participant, project was financed by the European Union within the COST program (European Cooperation in Science and Technology).
- 2010–2013. E!5415-NEWCOMAT, New generation of constructive materials based on industrial waste in the concept of sustainable development, participant, project from the EUREKA program was financed by the Ministry of Education, Science and Technological Development of the Republic of Serbia.
- 2007–2009. E!3824 INWASCOMP, From industrial waste to commercial products, participant, project from the EUREKA program was financed by the Ministry of Science of the Republic of Serbia.
- 2006–2009. E!3688 SASIWAM, Sustainable application of selected industrial waste materials in cement and concrete industry, participant, project from the EUREKA program was financed by the Ministry of Science of the Republic of Serbia.

## SELECTED PUBLICATIONS

Violeta Nikolić, Miroslav Komljenović, Nataša Džunuzović, Zoran Miladinović (2018) “The influence of Pb addition on fly ash-based geopolymers”, *Journal of Hazardous Materials* 350, 98-107. <https://doi.org/10.1016/j.jhazmat.2018.02.023>

Violeta Nikolić, Miroslav Komljenović, Nataša Džunuzović, Tijana Ivanović, Zoran Miladinović (2017) “Immobilization of hexavalent chromium by fly ash-based geopolymers”, *Composites Part B: Engineering* 112, 213-223. <http://dx.doi.org/10.1016/j.compositesb.2016.12.024>

Nataša Džunuzović, Miroslav Komljenović, Violeta Nikolić, Tijana Ivanović (2017) “External sulfate attack on alkali-activated fly ash-blast furnace slag composite”, *Construction and Building Materials* 157, 737-747. <http://dx.doi.org/10.1016/j.conbuildmat.2013.08.013>

Violeta Nikolić, Miroslav Komljenović, Zvezdana Baščarević, Nataša Marjanović, Zoran Miladinović, Rada Petrović (2015) “The influence of fly ash characteristics and reaction conditions on strength and structure of geopolymers” *Construction and Building Materials* 94, 361–370. <http://dx.doi.org/10.1016/j.conbuildmat.2015.07.014>

Nataša Marjanović, Miroslav Komljenović, Zvezdana Baščarević, Violeta Nikolić, Rada Petrović (2015) “Physical–mechanical and microstructural properties of alkali-activated fly ash–blast furnace slag blends”, *Ceramics International* 41, 1421–1435. <http://dx.doi.org/10.1016/j.ceramint.2014.09.075>

Zvezdana Baščarević, Miroslav Komljenović, Zoran Miladinović, Violeta Nikolić, Nataša Marjanović, Rada Petrović (2015) “Impact of sodium sulfate solution on mechanical properties and structure of fly ash based geopolymers”, *Materials and Structures* (2015) 48, 683-697. <http://dx.doi.org/10.1617/s11527-014-0325-4>

Violeta Nikolić, Miroslav Komljenović, Nataša Marjanović, Zvezdana Baščarević, Rada Petrović (2014) “Lead immobilization by geopolymers based on mechanically activated fly ash”, *Ceramics International* 40, 8479–8488. <http://dx.doi.org/10.1016/j.ceramint.2014.01.059>

Nataša Marjanović, Miroslav Komljenović, Zvezdana Baščarević, Violeta Nikolić (2014) “Improving reactivity of fly ash and properties of ensuing geopolymers through mechanical activation”, *Construction and Building Materials* 57, 151-162. <http://dx.doi.org/10.1016/j.conbuildmat.2014.01.095>

Zvezdana Baščarević, Miroslav Komljenović, Zoran Miladinović, Violeta Nikolić, Nataša Marjanović, Zoran Žujović, Rada Petrović (2013) “Effects of the concentrated  $\text{NH}_4\text{NO}_3$  solution on mechanical properties and structure of the fly ash based geopolymers”, *Construction and Building Materials* 41, 570-579. <http://dx.doi.org/10.1016/j.conbuildmat.2012.12.067>

Miroslav Komljenović, Zvezdana Baščarević, Nataša Marjanović, Violeta Nikolić (2013)

“External sulfate attack on alkali-activated slag”, *Construction and Building Materials* 49, 31-39. <http://dx.doi.org/10.1016/j.conbuildmat.2013.08.013>

Miroslav Komljenović, Zvezdana Baščarević, Nataša Marjanović, Violeta Nikolić (2012) “Decalcification resistance of alkali-activated slag”, *Journal of Hazardous Materials* 233-234, 112-121. <http://dx.doi.org/10.1016/j.jhazmat.2012.06.063>

Miroslav Komljenović, Zvezdana Baščarević, Violeta Bradić (2010) “Mechanical and microstructural properties of alkali-activated fly ash geopolymers”, *Journal of Hazardous Materials* 181, 1-3, 35-42. <http://dx.doi.org/10.1016/j.jhazmat.2010.04.064>