



# Dr Jovica Sokolović

## Full professor

**Basic information:** **Address:** Vojske Jugoslavije 12, 19210 Bor, Serbia  
**Office:** M&RT Building; Office no. 10  
**Telefon:** +381 30 424 555, ext. 185  
**E-mail address:** [jsokolovic@tfbor.bg.ac.rs](mailto:jsokolovic@tfbor.bg.ac.rs)  
**ORCID:** [0000-0002-2003-1141](https://orcid.org/0000-0002-2003-1141)  
**Scopus:** [55250002400](https://scopus.org/55250002400)

**Education:** **2000**  
BSc in Mining, Mineral Processing  
University of Belgrade, Technical faculty in Bor,  
Department for Mineral Processing

**2006**  
MSc in Mining, Mineral and recycling technologies  
University of Belgrade, Technical faculty in Bor,  
Department for Mineral and Recycling Technologies

**2012**  
PhD in Mining,  
University of Belgrade, Technical faculty in Bor,  
Department for Mineral and Recycling Technologies

**Work experience:** **2000 – 2001**  
Research Assistant  
University of Belgrade, Technical faculty in Bor  
Department for Mineral Processing

**2001 – 2006**  
Teaching Associate  
University of Belgrade, Technical faculty in Bor  
Department for Mineral Processing

**2006 – 2012**  
Teaching Assistant  
University of Belgrade, Technical faculty in Bor,  
Department for Mineral and Recycling Technologies

**2012 – 2017**

Assistant professor  
University of Belgrade, Technical faculty in Bor,  
Department for Mineral and Recycling Technologies

**2017 – 2022**

Associate professor  
University of Belgrade, Technical faculty in Bor,  
Department for Mineral and Recycling Technologies

**2022 –**

Full professor  
University of Belgrade, Technical faculty in Bor,  
Department for Mineral and Recycling Technologies

**Engagement on subjects (Teaching courses):**

**Technology and sustainable development** – UAS, modules ELMS, MP and RTSD

**Physical methods of concentration** – UAS, modules MP and RTSD

**Special methods of concentration** – UAS, modules MP and RTSD

**Mineral processing** – UAS, module ELMS

**Theoretical principles of physical processes of preparation and concentration** - MAS, modules MP and RTSD

**Sanation and reclamation** – MAS, modules ELMS, MP and RTSD

**Coal processing technologies** – MAS, module MP

**Design and management of communal landfill** – MAS, module RTSD

**Recycling of metals and metal waste** – MAS, module RTSD

**Theory of physical process of concentration** – DAS, Mining engineering

**Theory principles of coal processing** – DAS, Mining engineering

**Areas of interest:**

Research in the field of mineral processing and recycling technologies particularly Gravity and electromagnetic separation, Coal processing, Recycling and waste minimization, Environmental protection and sustainable development.

**Projects:**

**TR 33007:** " Implementation of modern technical, technological and ecological solutions in the existing production systems of the Copper Mines Bor and the Copper Mine Majdanpek ", Ministry of education, science and technological development of Republic of Serbia

**TR 33038:** „Improvement of copper ore exploitation and processing technologies with monitoring of environmental and working conditions in RTB Bor Group“, Ministry of education, science and technological development of Republic of Serbia

**SATREPS:** „The Project for the research on the integration system of spatial environment analysis and advanced metal recovery to ensure sustainable resource development, FY 2014, (2014 – 2019)“.

**The most important references:**

- **Sokolović, J.**, Stanojlović, R., Marković, Z., Effect of oxidation on flotation and electrokinetic properties of coal, *Journal of Mining and Metallurgy, Section A: Mining*, 42 (1) (2006), pp. 69-81.
- Zivkovic, D., **Sokolović, J.** et al., Modern trends in the recycling of electronic waste, *Ecologica*, 17 (57) (2010), pp. 11-16.
- Stanojlović, R., **Sokolović, J.**, Stojanović, S., Control of electrostatic separation efficiency of waste copper cable by float-sink analysis, *Recycling and Sustainable Development, ROR* 4 (1) (2011), pp. 29-66.
- **Sokolovic, J.**, Stanojlovic, R., Markovic, Z., The effects of pretreatment on the flotation kinetics of waste coal, *International Journal of Coal Preparation and Utilization*, 32 (3) (2012), pp. 130-142.
- **Sokolovic, J.**, Stanojlovic, R., Markovic, Z., Activation of oxidized surface of anthracite waste coal by attrition, *Physicochemical Problems of Mineral Processing*, 48 (1) (2012), pp. 5–18.
- Stanojlović, R., **Sokolović, J.**, Milosević, M., Integrated environmental protection and waste minimization in the area of Copper Mine Bor, *Environmental Engineering and Management Journal*, 13 (4) (2014), pp. 791-804.
- Stanojlović, R., **Sokolović, J.**, A study of the optimal model of the flotation kinetics of copper slag from Copper Mine Bor, *Archives of Mining Sciences*, 59 (3) (2014), pp. 821-834.
- **Sokolović, J.**, Stanojlović, R., Stanković, S., Gardić, V., Treatment of oily wastewater by adsorption using anthracite, *Quaestus Multidisciplinary Research Journal, Quaestus* 4 (2014), pp. 290-297.
- Gardić, V., Marković, R., Masuda, N., **Sokolović, J.**, Petrović, J., Đorđievski, S., Božić, D., The study of leachability and toxicity of sludge after neutralization of Saraka and Robule AMD wastewaters, *Journal of Mining and Metallurgy, Section A: Mining*, 53 A (1) (2017), pp. 17-29.
- **Sokolović, J.**, The role and importance of anthracite coal in the energy sector and water treatment, *Proceedings of the 3rd International Conference on Science, Technology and Management in Energy, eNergetics 2017*, ISBN: 978-86-80616-02-5, October 22-23, 2017, Niš, Serbia, pp. 121-127.
- Paunović, P., **Sokolović, J.**, Twenty-five years of ecological truth, *Proceedings of the 26th International Conference Ecological Truth and Environmental Research - EcoTER'18*, ISBN: 978-86-6305-076-1, June 12-15, 2018, Bor, Serbia, pp. 16-31.
- Wen, B., Xia, W., **Sokolovic, J.**, Recent advances in effective collectors for enhancing the flotation of low rank/oxidized coals. *Powder Technology*, 319 (2017), pp. 1-11.
- **Sokolović J. M.**, Miskovic S., The effect of particle size on coal flotation kinetics: A review, *Physicochemical Problems of Mineral Processing*, 54 (4) (2018), pp. 1172-1190.
- Egerić, M., Smičiklas, I., Mraković, A., Jović, M., Šljivić-Ivanović, M., **Sokolović, J.**, Ristić, M., Separation of Cu(II) ions from synthetic solutions and wastewater by raw and calcined seashell waste, *Desalination and Water Treatment*, 132 (2018), pp. 205-214.

- Wen, B., Xia, W., **Sokolovic, J.**, Effect of surface oxidation in air and water on hydrophobicity and floatability of a bituminous coal, Archives of Mining Sciences, 64 (1) (2019), pp. 223-233.
- Štirbanović, Z., **Sokolović, J.**, Marković, I., Đorđievski, S., The effect of degree of liberation on copper recovery from copper-pyrite ore by flotation, Separation Science and Technology, 55 (17) (2020), pp. 3260-3273.
- Štirbanović, Z., Gardić, V., Stanujkić, D., Marković, R., **Sokolović, J.**, Stevanović, Z. Comparative MCDM Analysis for AMD Treatment Method Selection. Water Resources Management, 35 (11) (2021), pp. 3737-3753.
- Xia, W., He, W., **Sokolović, J.**, Effect of pyrolysis temperature on desulfurization performance of high organic sulfur low rank coal, Journal of Mining and Metallurgy, Section A: Mining, 57 A (1), 2021, pp. 27-32.
- **Sokolović, J.**, Stanujkić, D., Štirbanović, Z., Selection of process for aluminium separation from waste cables by TOPSIS and WASPAS methods, Minerals Engineering, 173 (2021), 107186.

**Textbook and monographs:**

- Stanojlović, R., **Sokolović, J.**, Smelting slag - slag production and processing of copper smelter in Bor, Monograph, ISBN 978-86-80987-83-5, Published by University of Belgrade, Technical Faculty in Bor, Bor, Serbia (2011).
- Stanojlović, R., **Sokolović, J.**, "Technology and sustainable development", textbook, ISBN 978-86-6305-055-6, Published by University of Belgrade, Technical Faculty in Bor, Bor, Serbia (2016).
- **Sokolović, J.**, Practicum in physical methods of concentration, Auxiliary textbook, ISBN 978-86-6305-109-6, Published by University of Belgrade, Technical Faculty in Bor, Bor, Serbia (2020).

**Other activities:**

- Vice president of the Organizing Committee of the 39<sup>th</sup> and 40<sup>th</sup> International October Conference on Mining and Metallurgy, (2007-2008).
- Member of the Organizing Committee of Symposium on Recycling Technologies and Sustainable Development (2006-2017),
- President of Organizing Committee of the 4<sup>th</sup> (2009) and 9<sup>th</sup> (2014) Symposium on Recycling Technologies and Sustainable Development.
- Member of the Scientific Committee of Symposium on Recycling Technologies and Sustainable Development (2013-2017),
- President of Organizing Committee of the 1<sup>st</sup> (2012) Student Symposium on Recycling Technologies and Sustainable Development.
- Member of the Scientific Committee of Student Symposium on Recycling Technologies and Sustainable Development (2013-2017),
- Member of the Organizing Committee of the XVI Balkan Mineral Processing Congress, Belgrade, Serbia, (2015).
- Member of the Scientific Committee of the International Conference on Tourism and Durable Development (2014-2016).
- Member of the Scientific Committee of the International Student October Conference on Mining and Metallurgy (2015-2021).
- Member of the Organizing Committee of the International Conference Ecological Truth and Environmental Research (2018).

- Member of the Scientific Committee of the 6<sup>st</sup> Symposium with international participation “Environmental protection and sustainable development 2018” (2018).
- Member of the Scientific Committee of the 7<sup>th</sup> Symposium with international participation “Sustainable development 2019” (2019).
- Member of the Scientific Committee of the 10<sup>th</sup> Symposium with international participation “Mining 2019” (2019).
- Member of the Scientific and the Organizing Committee of the International Mineral Processing and Recycling Conference (2019).
- President of Organizing Committee and Vice-president of the Scientific Committee of the 14<sup>th</sup> International Mineral Processing and Recycling Conference (2021).
- Member of the Organizing Committee of the International October Conference on Mining and Metallurgy (2021).
- Technical Editor on Journal of Mining and Metallurgy: Section A – Mining, ISSN: 1450-5959, (2006 - 2013).
- Co-Editor for Mineral Processing on Journal of Mining and Metallurgy: Section A – Mining, ISSN: 1450-5959, (2013 - present).
- Editorial Board Member, Physicochemical Problems of Mineral Processing Journal, (2016 - present).
- Passed forensic expert in the field of Mining and Geology; Topic: Mineral processing and recycling, Decision No. 740-05-0024/2014-22, The Ministry of Justice of the Republic of Serbia, 2014.
- Passed professional exam in the field of mining, mineral processing, Decision No. 7105/R, The Ministry of Mining and Energy of the Republic of Serbia, 2018.
- Vice Dean, University of Belgrade, Technical Faculty in Bor, 2022.

**Awards and  
acknowledgement:**

- **Sokolović, J.**, Stanojlović, R., Nikolić, R., Marković, Z., Štirbanović, Z., The Best Technological Innovations NTI 2007, Team leader ECO-CARBON, Special Award for the top-ranked team in Zajecar, Ministry of Science and Technology of the Republic of Serbia (2007).
- **Sokolović, J.**, The Best Technological Innovations NTI 2008, First Awards for the Association of Innovators and Inventors City of Zajecar, Ministry of Science and Technology of the Republic of Serbia (2008).
- **Sokolović, J.**, Stojanović, J., Žikić, M., Tanikić, D., The Best Technological Innovations NTI 2014, Special Awards, EcoCoal Briquette team, Semifinal, 8th place, Ministry of Education, Science and Technology of the Republic of Serbia (2014).
- **Sokolović, J.**, Stakić, B., Perendić, P., The Best Technological Innovations NTI 2016, Special Awards, Eco Aqua team, Final, 4<sup>th</sup> place, Ministry of Education, Science and Technology of the Republic of Serbia (2016).