



# Dr Zoran Štirbanović

## Associate Professor

- Basic information:**
- Address:** Vojske Jugoslavije 12, 19210 Bor, Serbia
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- ORCID:** [0000-0001-7571-2844](https://orcid.org/0000-0001-7571-2844)
- Scopus:** [54974097300](https://scopus.com/authorid/54974097300)
- Education:**
- 2005**  
BSc in Mining, Mineral Processing  
University of Belgrade, Technical faculty in Bor,  
Department for Mineral and Recycling Technologies
- 2009**  
MSc in Mining, Mineral and recycling technologies  
University of Belgrade, Technical faculty in Bor,  
Department for Mineral and Recycling Technologies
- 2015**  
PhD in Mining, System Engineering  
University of Belgrade, Faculty of Mining and Geology,  
Department for Applied Computing and System Engineering
- Work experience:**
- 2007 – 2009**  
Teaching Associate  
University of Belgrade, Technical faculty in Bor,  
Department for Mineral and Recycling Technologies
- 2009 – 2015**  
Teaching Assistant  
University of Belgrade, Technical faculty in Bor,  
Department for Mineral and Recycling Technologies,
- 2015 – 2020**  
Assistant professor  
University of Belgrade, Technical faculty in Bor,  
Department for Mineral and Recycling Technologies

2020 -

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

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

**Testing mineral and secondary raw materials** - UAS, modules MP and RTSD

**Alternative and renewable energy sources** - UAS, module RTSD

**Mineral processing technologies** - UAS, module MP

**Reagents in mineral processing** - UAS, module MP

**Specific methods of flotation** - MAS, module MP

**Theory of elementary physical - chemical processes in flotation** - DAS, Mining Engineering

**Areas of interest:**

Physical - chemical processes in flotation, Methods for testing mineral and secondary raw materials, Alternative and renewable energy sources, Mineral and recycling technologies

**Projects:**

**TR 33023:** " Development of technology for processing copper and precious metals ores by flotation in order to achieve better technological results ", Ministry of education, science and technological development of Republic of Serbia.

**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

**The most important references:**

- **Z. Stirbanovic**, D. Stanujkic, I. Miljanovic, D. Milanovic, Application of MCDM methods for flotation machine selection, Miner. Eng., 137 (2019), pp. 140-146.
- **Štirbanović, Z.**, Sokolović, J., Marković, I., & Đorđievski, S. (2020). The effect of degree of liberation on copper recovery from copper-pyrite ore by flotation. Separation Science and Technology (Philadelphia), 55(17), 3260-3273. doi:10.1080/01496395.2019.1676260
- **Zoran M. Stirbanovic**, Zoran S. Markovic, The effect of copper bearing particles liberation on copper recovery from smelter slag by flotation, Separation Science and Technology, Vol.46, No. 16, 2011, pp. 2496-2500 (ISSN 0149-6395)
- **Zoran Štirbanović**, Igor Miljanović, Zoran Marković, Application of Rough Set Theory for Choosing Optimal Location for Flotation Tailings Dump, Arch. Min. Sci., Vol. 58 No 3, 2013, pp. 893-900 (ISSN 0860-7001, DOI 10.2478/amsc-2013-0062)
- Zoran Markovic, **Zoran Stirbanovic**, Dragan Milanovic, Magdalena Markovic, Kinetics study on oxidized copper ore flotation from copper mine Veliki Krivelj, Proceedings of XXVI International Mineral Processing Congress (IMPC 2012), New Delhi, India, ISBN: 81-901714-3-7, September 24-28, 2012, pp. 3280-3286
- Rodoljub Stanojlović, **Zoran Štirbanović**, Jovica Sokolović, Wastefree technology for processing smelter slag from Bor Copper Mine, Journal of Mining and Metallurgy, Section A: Mining, Vol 44, No. 1 , 2008, pp. 44-50. (ISSN 1450-5959)

- **Zoran Štirbanović**, Zoran Marković, Proceedings of the XI International Symposium on Recycling Technologies and Sustainable Development, November 2016, Bor, Serbia, ISBN 978-86-6305-051-8
- Rodoljub Stanojlović, **Zoran Štirbanović**, Proceedings of the 3<sup>rd</sup> Symposium "Recycling technologies and sustainable development", October 2008, Sokobanja, Serbia, ISBN 978-86-80987-61-3
- Rodoljub Stanojlović, **Zoran Štirbanović**, Proceedings of the 2<sup>nd</sup> Symposium "Recycling technologies and sustainable development", October 2007, Sokobanja, Serbia, ISBN 978-86-80987-53-8

**Other activities:**

- President of Organizing Committee of XI International Symposium on Recycling Technologies and Sustainable Development, November 2016, Bor, Serbia.
- President of Organizing Committee of 2<sup>nd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> Student Symposium "Recycling Technologies and Sustainable Development".
- Member of Scientific Committee of XI and XII International Symposium on Recycling Technologies and Sustainable Development.
- Member of Organizing Committees of several national and international conferences: International October Conference on Mining and Metallurgy; International Scientific and Professional Meeting "Ecological Truth"; Symposium on Recycling Technologies and Sustainable Development; International Serbian Symposium on Mineral Processing etc.

**Scholarships/Rewards**

- Professional visit to University of Technology of Troyes, France as a holder of a scholarship for short research visit to France, granted by French Embassy in Belgrade and French Institute in Serbia (07-22 November 2019)