



Irena Nikolić

Date of birth: 25/02/1971 | **Nationality:** Montenegrin | **Gender:** Female | **Phone number:** (+382) 69449548 (Work) | **Email address:** irena@ucg.ac.me | **Website:**

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WORK EXPERIENCE

10/2024 – CURRENT Podgorica, Montenegro

DEAN FACULTY OF METALLURGY AND TECHNOLOGY, UNIVERSITY OF MONTENEGRO

06/2021 – CURRENT Podgorica, Montenegro

FULL PROFESSOR FACULTY OF METALLURGY AND TECHNOLOGY, UNIVERSITY OF MONTENEGRO

2016 – 2021 Podgorica, Montenegro

ASSOCIATE PROFESSOR FACULTY OF METALLURGY AND TECHNOLOGY, UNIVERSITY OF MONTENEGRO

2009 – 2016 Podgorica, Montenegro

ASSISTANT PROFESSOR FACULTY OF METALLURGY AND TECHNOLOGY, UNIVERSITY OF MONTENEGRO

1994 – 2009 Podgorica, Montenegro

UNIVERSITY TEACHING ASSISTANT FACULTY OF METALLURGY AND TECHNOLOGY, UNIVERSITY OF MONTENEGRO

EDUCATION AND TRAINING

2003 Podgorica, Montenegro

PHD IN A TECHNICAL SCIENCES Faculty of Metallurgy and Technology, University of Montenegro

Website <https://www.ucg.ac.me/mtf#lat> | **Level in EQF** EQF level 8

1998 Podgorica, Montenegro

MSC IN A TECHNICAL SCIENCES Faculty of Metallurgy and Technology, University of Montenegro

Website <https://www.ucg.ac.me/mtf#lat> | **Level in EQF** EQF level 7

1994 Podgorica, Montenegro

GRADUATE DIPLOMA IN METALLURGY Faculty of Metallurgy and Technology, University of Montenegro

Website <https://www.ucg.ac.me/mtf#lat> | **Level in EQF** EQF level 6

2000 Sheffield, United Kingdom

STUDY STAY University of Sheffield, Department of Chemical Processes and Engineering, Great Britain

2006 Berkeley, United States

STUDY STAY University of California, Berkeley, National Center for Electron Microscopy, USA

LANGUAGE SKILLS

Mother tongue(s): **MONTENEGRIN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **SOCIAL AND POLITICAL ACTIVITIES**

Communicative, able to take initiative and teamwork. Politically inactive.

● **ORGANISATIONAL SKILLS**

Organizations of pedagogical and scientific research work

Organization, management of scientific projects, pedagogical work (tutorial of master's and doctoral theses works). Membership in the organizing committees of international scientific conferences. Tendency to the team work, adaptation to different business environments, analytical reasoning.

● **PROJECTS**

2024 – CURRENT

New environmentally friendly thermal insulation materials based on fly ash and waste plastic – Green Hub, Funded by Montenegrin Fund of Inovation

2016 – 2018

A new, environmentally friendly thermal insulation mortar based on ash and expanded perlite, Funded by Montenegrin Ministry of Sciences

2014 – 2016

Solidification/stabilization of toxic waste into materials based on cement and fly ash, Funded by Montenegrin Ministry Sciences

2012 – 2014

Examining the possibility of obtaining building materials based on white bauxite, fly ash and slag, Funded by Montenegrin Ministry of Sciences

1988

Optimization of the decomposition process of aluminate solutions in the Bayer process, Funded by Ministry of education of Montenegro

1995

Examination of the phenomenon of $Al(OH)_3$ crystallization process from caustic solutions, Funded by Montenegrin Ministry of Education

● **PUBLICATIONS**

2025

[Thermal stability and leaching behavior of alkali-activated slag doped with electric arc furnace dust](#)

Nebjša Tadić, Snežana Brašanac-Vukanović, Irena Nikolić, Vuk Radmilović, Velimir Radmilović, Science of Sintering, in press

[Strontium removal from aquatic solution using EAF slag: kinetic, equilibrium and thermodynamic approach](#)

Milena Tadić, Irena Nikolić, Nevena Cupara, Dijana Đurović, Ivana Milašević, esalination and Water Treatment, 294 (2023) 139–148.

2022

[Profile, Sources, Ecological and Health Risk Assessment of PAHs in Agricultural Soil in a Pljevlja Municipality](#)

Profile, Sources, Ecological and Health Risk Assessment of PAHs in Agricultural Soil in a Pljevlja Municipality

2022

[Heavy metals assessment in agricultural soils and vegetables in the vicinity of industrial pollutants in the Pljevlja municipality \(Montenegro\): ecological and health risk approach](#)

Nevena Cupara, Irena Nikolić, Dijana Đurović, Ivana Milašević, Darko Medin, Slađana Krivokapić, Environmental Monitoring and Assessment (2022) 194:819, ISSN: 0167-6369,

2021

[Simultaneous Removal of Cu²⁺, Zn²⁺ and Cd²⁺ from Aqueous Solutions by Alkali Activated Slag](#)

Milena Tadić, Miljan Bigović, Dijana Djurović, Martina Jakić, Irena Nikolić, Periodica Polytechnica Chemical Engineering, Vol.65, Iss.3, (2021) 389-399

2020

[Alkali activated slag cement doped with Zn-rich electric arc furnace dust.](#)

Irena Nikolić, Dijana Đurović, Smilja Marković, Liljana Veselinović, Ivona Janković- Častvan, Vuk V. Radmilović, Velimir R. Radmilović, Journal of materials research and Technology 9(16), (2020) 12783–12794.

2020

[Adsorption kinetics, equilibrium, and thermodynamics of Cu²⁺ on pristine and alkali activated steel slag](#)

Irena Nikolić, Dijana Đurović, Milena Tadić, Vuk V. Radmilović & Velimir R. Radmilović, Chemical engineering communications, Vol 207, Iss 9, (2020) 1278-1297

2019

[Enhanced sorption of Cu²⁺ from sulfate solutions onto modified electric arc furnace slag](#)

Irena Nikolić, Smilja Marković, Ljiljana Veselinović, Vuk V. Radmilović, Ivona Janković-Častvan, Velimir R. Radmilović, Materials Letters 235 (2019) 184-188

2018

[Durability of alkali activated slag in a marine environment: Influence of alkali ion](#)

Irena Nikolić, Milena Tadić, Ivona Janković-Častvan, Vuk V. Radmilović, Velimir R. Radmilović, J. Serb. Chem. Soc. 83 (10) 1143–1156 (2018)

2017

[Simultaneous speciation of chromate, arsenate, molybdate and vanadate in alkaline samples by HPLC-ICP-MS at different concentration levels of vanadate](#)

Ana Drinčić, Janez Ščančar, Tea Zuliani, Irena Nikolić and Radmila Milačić, Journal of Analytical Atomic Spectrometry, 32 (2017) 2200 – 2209.

2017

[Long-term environmental impacts of building composites containing waste materials: Evaluation of the leaching protocols.](#)

Ana Drinčić, Irena Nikolić, Tea Zuliani, Radmila Milačić Janez Ščančar, Waste Management 59 (2017) 340–349.

[Modification of mechanical and thermal properties of fly ash based geopolymer by the incorporation of steel slag](#)

Irena Nikolić, Smilja Marković, Ivona Janković - Častvan, Vuk Radmilović, Ljiljana Karanović, Velimir Radmilović, Materials Letters, 176 (2016) 301–305,

Kinetics of electric arc furnace slag leaching in alkaline solutions

Irena Nikolić, Ana Drinčić, Dijana Djurović, Ljiljana Karanović, Vuk V. Radmilović, Velimir R. Radmilović, Construction and Building Materials 108 (2016) 1–9.

2015

Stabilization/solidification of spent grit in the fly ash based geopolymers,

Irena Nikolić, Milena Tadić, Dijana Đurović, R. Zejak, Boban Mugoša, s, i Environmental protection engineering, 41(2): (2015) 5-14.

2014

Improved compressive strength of alkali activated slag upon heating.

Irena Nikolić, Ljiljana Karanović, Ivona Janković-Častvan, Vuk Radmilović, Slavko Mentus, Velimir Radmilović, (Science Citation Index) Materials Letters 133 (2014) 251–254.

2014

Geopolymerization of low grade bauxite

Irena Nikolić, I.Častvan-Janković, J. Krivokapić, D. Đurović, V.V. Radmilović, V.R.Radmilović, Materiali in tehnologije 48 (1) 39-44

2013

Mechanical and microstructural properties of fly ash based geopolymer paste and mortar,

Radomir Zejak, Irena Nikolić, Dragoljub Blečić, Vuk Radmilović, Velimir Radmilović, Materiali in Tehnologije, 47 (4) 535-540

2013

Geopolymerization of coal fly ash in the presence of electric arc furnace dust

Irena Nikolić, Dijana Đurović, Dragoljub Blečić, Radomir Zejak, Ljiljana Karanović, Stefan Mitsche, Velimir.R. Radmilović, Minerals Engineering, 49, 24-32

2013

Influence of alkali cation on the mechanical properties and durability of fly ash based geopolymers

Irena Nikolić, Radomir Zejak, Ivona Častvan-Janković, Ljiljana Karanović, Vuk Radmilović, Velimir Radmilović, Acta Chimica Slovenica, 60 (3) 636-643

2013

Compressive strength and hydrolytic stability of fly ash based geopolymers

Irena Nikolić, Dijana Đurović, Radomir Zejak, Ljiljana Karanović, Milena Tadić, Dragoljub Blečić, Velimir R. Radmilović, Journal of the Serbian Chemical Society 78 (6) 851–863

2009

Investigation of mechanism of Al(OH)₃ crystal growth

Investigation of mechanism of Al(OH)₃ crystal growth

Irena Nikolić, D. Blečić, V. Radmilović, Canadian Journal of Chemical Engineering, 87(1) 31-37

2008

The influence of tartaric acid on the phenomena of Al(OH)₃ crystallization from the caustic soda solution

I. Nikolić, D. Blečić, N. Blagojević: Chemical Industry & Chemical Engineering Quarterly, 14 (1) (2008), pp. 39-45.

2008

Using a FIB to prepare Al(OH)₃ samples for the TEM

Irena Nikolić, V. Radmilović, T.Z. Sholklapper, D. Blečić: *Materiali in Tehnologije*, 42 (1) 45 (2008). pp. 45-47.

2008

[Influence of oxalic acid on the kinetic of Al\(OH\)₃ growth from the caustic soda solutions](#)

Irena Nikolić, Dragoljub Blečić, Nada Blagojević, Velimir Radmilović, Kata Kovačević: *Hydrometallurgy* 74 (2004) pp. 1-9.

2003

[Influence of oxalic acid on the agglomeration process and total soda content in precipitated Al\(OH\)₃](#)

Irena Nikolić, D. Blečić, N. Blagojević, V. Radmilović, K. Kovačević: *Journal of Crystal Growth* 252 (2003), pp 360-366.

[Influence of decomposition parameters on agglomeration process and total soda content in precipitated Al\(OH\)₃](#)

Irena Blagojević (Nikolić), D. Blečić, R. Vasiljević: *Journal of Crystal Growth* 200 (1999), pp 558-564.