

CURRICULUM VITAE

<p>First name, Surname Address (business)</p> <p>Phone/Fax: E-mail</p>	<p>IRENA LYUBENOVA GRIGOROVA University of Mining and Geology "St. Ivan Rilski", https://mgu.bg/en/ 1700 Sofia, Bulgaria, Studentski grad, Prof. Boyan Kamenov Str., + 359 2 8060 547, + 359 2 8060203, + 359 2 8060234 vice_rector_nid@mgu.bg, nid@mgu.bg, irena.grigorova@mgu.bg</p>
<p>Positions (at moment)</p>	<p>2020 → now Vice Rector for Science and Research University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria Studentski grad, Prof. Boyan Kamenov Str., https://mgu.bg/en/</p>
<p>Positions (at moment)</p>	<p>2016 - 2024 Head of Mineral Processing and Recycling Department Prof. D.Sc., Eng. Department of Mineral Processing and Recycling, University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria, Studentski grad, Prof. Boyan Kamenov Str., https://mgu.bg/en/</p>
<p>Dates Occupation or position held</p>	<p>2022 → Professor Professional field 5.8. Exploration, extraction and treatment of minerals, Scientific specialty "Mineral processing and recycling" University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria Studentski grad, Prof. Boyan Kamenov Str., https://mgu.bg/en/ Department of Mineral Processing and Recycling</p>
<p>Dates Occupation or position held</p> <p>Name and address of employer</p>	<p>2012 - 2022 Associate Professor Professional field 5.8. Exploration, extraction and treatment of minerals, Scientific specialty "Mineral processing and recycling" University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria Studentski grad, Prof. Boyan Kamenov Str., https://mgu.bg/en/ Department of Mineral Processing and Recycling</p>
<p>Dates Occupation or position held</p> <p>Name and address of employer</p>	<p>2009 –2012 Chief Assistant Professor Professional field 5.8. Exploration, extraction and treatment of minerals, Scientific specialty "Mineral processing and recycling" University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria Studentski grad, Prof. Boyan Kamenov Str., https://mgu.bg/en/ Department of Mineral Processing and Recycling</p>

Dates	2007 –2009
Occupation or position held	Senior Assistant Professor Professional field 5.8. Exploration, extraction and treatment of minerals, Scientific specialty "Mineral processing and recycling"
Name and address of employer	University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria Studentski grad, Prof. Boyan Kamenov Str., https://mgu.bg/en/ Department of Mineral Processing and Recycling
Dates	02.2007 – 11.2007
Occupation or position held	Assistant Professor Professional field 5.8. Exploration, extraction and treatment of minerals, Scientific specialty "Mineral processing and recycling"
Name and address of employer	University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria Studentski grad, Prof. Boyan Kamenov Str., https://mgu.bg/en/ Department of Mineral Processing and Recycling
Education and training	
Dates	03.2024
Title of qualification awarded	Specialized training in innovative educational technologies, National Program "Digital Qualification", Ministry of Education and Science
Educational institution	"Angel Kanchev" University of Ruse
Dates	2015
Title of qualification awarded	Doctor of Sciences (Doctor of Technical Sciences) , Professional field 5.8. Exploration, extraction and treatment of minerals, Scientific specialty "Mineral processing and recycling"
Speciality code	Mineral Processing and Recycling
Main subjects covered or professional skills acquired	Mineral processing of industrial solid and liquid waste, waste recycling, water treatment, mining waste management
Educational institution	University of Mining and Geology "St.Ivan Rilski", Sofia, Bulgaria
Dates	11.2010
Title of qualification awarded	Special training for acquiring skills for introducing information and communication technologies in the teaching process in high schools and e-work-environment, Ministry of Education, Youth and Science, Project „Increasing qualification on the teachers in the higher education institutions”.
Educational institution	Technical University of Sofia, Bulgaria
Dates	06.2010
Title of qualification awarded	Special seminar for projects preparation financed by European funds, fulfilling the requirements and EU standards. Financial support of the EU and its characteristics for Bulgaria; Programs and projects for financial assistance; Project key elements and connections between them; Criteria for project evaluation; Documentation accompanying the project.

Educational institution	Sofia Educational Centre, Sofia, Bulgaria											
Dates	03-06.2010											
Title of qualification awarded	Special language course for learning professional terminology for teachers with foreign language skills. Certificate of foreign language specialization, registration № 6257.											
Educational institution	New Bulgarian University, Sofia, Bulgaria											
Dates	09.2008 – 01.2010											
Title of qualification awarded	Certificate of foreign language education, registration № 8963											
Educational institution	BRITANICA Cambridge ESOL Center											
Dates	2000 – 2004											
Title of qualification awarded	Educational and scientific degree "Doctor" (Ph.D.) , Professional field 5.8. Exploration, extraction and treatment of minerals, Scientific specialty "Mineral processing"											
Main subjects covered or professional skills acquired	Mineral processing of ferrous, non-ferrous, rare and precious metals, coal, industrial minerals, construction and rocks; management, processing and recycling of solid and liquid industrial and municipal wastes.											
Educational institution	University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria Department of Mineral Processing											
Dates	1995 – 2000											
Title of qualification awarded	M.Sc. in Mineral Processing											
Educational institution	University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria Department of Mineral Processing and Recycling											
Mother tongue(s)	Bulgarian											
Other language(s)	English, Russian											
Self-assessment according to The Common European Framework of Reference for Languages	Understanding		Speaking				Writing					
											Listening	
	C1	Fluently	C1	Fluently	C1	Fluently	C1	Fluently	C1	Fluently	C1	Fluently
	C1	Fluently	C1	Fluently	C1	Fluently	C1	Fluently	C1	Fluently	C1	Fluently
	Foreign language specialization Certificate, registration № 6257, New Bulgarian University, Sofia, Bulgaria. Certificate of foreign language education, registration № 8963, BRITANICA Cambridge ESOL Center Sofia, Bulgaria											
Professional information and applications												
Professional and Research interests (keywords)	Mineral processing of ores, nonferrous metals, industrial minerals and rocks and related Interfacial phenomena; Coal preparation; Mining waste management; Fine particles processing; Flotation, gravity separation; Wastewater treatment;											

	Sustainability and energy utilization; Comminution and physical separation; Solid – liquid separation; Pelletizing; of Solid fossil and biogenic fuels briquetting; Environmental protection; Sintering.
Patents and Inventions	Utility model in Bulgaria – 3.
Membership of professional organizations	<ul style="list-style-type: none"> - Member of Balkan Mineral Processing Science Academy, 2013 – now. - Member of Editorial Board of "Geology and Mineral Resources Journal", 2024 - to date. - Member of Editorial Board of the Proceedings of XV Balkan Mineral Processing Congress, 2013, Vol. I (ISBN 978-954-353-217-9) and Vol. II (ISBN 978-954-353-218-6), Publishing House “St. Ivan Rilski”. - Member of organizational, executive and editorial committee of XV BMPC Organizing and Editorial Committee, Sozopol, Bulgaria, 2013 – now. - General Manager of the XV Balkan Mineral Processing Congress, 2013. - Member of the International Scientific Committee and reviewer of International Scientific Committee of Symposium on Recycling technologies and Sustainable development, Serbia, 2009 – now. - Member of the International Scientific Committee and reviewer of the International and Professional Meeting Ecological Truth, Serbia, 2010 – now. - Member of the editorial board of the Journal of Recycling and Sustainable Development, 2018 - now. - Member of the Editorial Board of the Journal of Mining and Geological Sciences, part II, Mining, Technology and Mineral Processing, 2018 – now. - Member of the International Scientific Committee of the XIII International Mineral Processing and Recycling Conference, Belgrade, Serbia, 2018 - now. - Chairman of the International Scientific Committee of the International Scientific Conferences of the University of Mining and Geology “St. Ivan Rilski, 2020 – now. - Reviewer of Sustainable Extraction and Processing of Raw Materials Journal, 2020 - now. - Member of the Editorial board of the International Mineral Processing and Recycling Conference (IMPRC 2023), Technical Faculty in Bor, University of Belgrade, 2019 -now. - Reviewer of Journal of Mining and Metallurgy, Section A – Mining, 2016 - now. - Reviewer of “Minerals”, journal – 2023 – now.
Publications	<p>Over 160 publications in various national and international scientific journals, conference proceedings, books and monographs.</p> <p>Author of 2 monographys, co-author of 25 books and 1 bilingual encyclopedia “Basics of mineral processing”.</p>
Projects	<p>Supervisor and participant of national and international scientific and technological projects (60).</p> <p>Coordinator for the Bulgarian National Strategy for Development of the Mining Industry, 2011.</p>
Awards	Young Scientist Award of the University of Mining and Geology “St. Ivan Rilski”, Sofia, Bulgaria, 2012.

Award for overall contribution to Scientific Development and Improvement of Technologies for Recycling and Sustainable Development in Environmental Protection, University of Belgrade, Technical Faculty Bor, Serbia, 2009.

Participation in scientific sessions, conferences and congresses (for last years)

Chairman of the International Scientific Sessions:

- XVIII International and Professional Meeting Ecological Truth, 2010, Serbia.
- XIX International and Professional Meeting Ecological Truth, 2011, Serbia.
- VI Symposium on Recycling Technology and Sustainable Development, 2011, Serbia.
- XVI Balkan Mineral Processing Congress, Beograd, 2015, Serbia.
- International Scientific conferences of University of Mining and Geology "St. Ivan Rilski", 2016 – 2023, Sofia, Bulgaria.

Participation in Scientific Sessions and Conferences in Bulgaria:

- International Scientific conferences of University of Mining and Geology "St. Ivan Rilski", 2003 – 2023, Sofia, Bulgaria.
- International conference of the black sea region and southeastern Europe, Workshop, PROMITHEAS – 2, 2007, Sofia, Bulgaria.
- National scientific and technical conference with international participation "Technologies and Practices in Underground Mining and Mine Construction", 2008 – 2010, Devin, Bulgaria.
- Scientific Conference with international Participation "Science in globalization", 2008 – 2019, Kardzhali, Bulgaria.
- Annual National Scientific Conference with International Participation "The man and the universe", 2011, Smolyan, Bulgaria.
- XV Balkan Mineral Processing Congress, 2013, Sozopol, Bulgaria.
- Technical Workshop "Prospects for Metallurgical Processing Lead-Zinc Raw Materials Development", 2014, Plovdiv, Bulgaria,
- IX International Multidisciplinary Scientific GeoConference, 30 June – 06 July 2019, Albena, Bulgaria.
- XX International Multidisciplinary Scientific GeoConference, 16 – 25 August 2020, Albena, Bulgaria.

Participation in scientific sessions and conferences abroad:

- VI International Industrial Minerals Symposium, 2007, Izmir, Turkey.
- XII Balkan Mineral Processing Congress, 2007, Delphi, Greece.
- XIX International Congress & Exhibition, 2008, Athens, Greece.
- XXIV International Mineral Processing Congress, 2008, Beijing, China.
- XXI International Serbian Symposium on Mineral Processing, 2008, Serbia.
- IV Symposium "Recycling Technologies and sustainable development, 2009, Serbia.
- III Balkan Mining Congress, 2009, Izmir, Turkey.
- II International Symposium on the Processing of Industrial Minerals, 2010, Istanbul, Turkey.
- XVIII International Scientific and Professional Meeting "Ecological Truth", 2010, Serbia.
- XXV International Mineral Processing Congress, 2010, Brisbane, Australia.
- XIX International Scientific and Professional Meeting "Ecological Truth", 2011,

Serbia.

- XIV Balkan Mineral Processing Congress, 2011, Tuzla, Bosna and Herzegovina.
- XXII World Mining Congress, 2011, Istanbul, Turkey.
- VI Symposium Recycling Technologies and Sustainable Development, 2011, Serbia.
- XXVI International Mineral Processing Congress, 2012, New Delhi, India.
- VII Symposium Recycling Technologies and Sustainable Development, 2012, Serbia.
- XXIII World Mining Congress, Montreal, 2013, Canada.
- XXVII International Mineral Processing Congress, 2014, Santiago, Chile.
- I International Mineral Engineering Congress, 2014, San Luis Potosi, Mexico.
- XVI Balkan Mineral Processing Congress, 2015, Beograd, Serbia.
- ISWA World Recycling Congress, 2016, Novi Sad, Serbia.
- XXIV World Mining Congress, 2016, Rio de Janeiro, Brazil.
- XVII Balkan Mineral Processing Congress, 2017, Antalya, Turkey.
- XXIX International Mineral Processing Congress, Moscow, Russia, September 17-21, 2018.
- VII International Conference "Civil Engineering - Science and Practice", 10-14 March 2020, Kolašin, Montenegro.
- XI Symposium with International Participation "Mining 2020", 8-11 September 2020, Vrnjačka Banja, Serbia.
- XIX Balkan Mineral Processing Congress, 2023, Prishtine, Kosovo.
- International Conference on Research in Engineering, Technology and Science, 2023, Budapest, Hungary.

Other professional skills

Scientific supervisor for over 30 successfully graduates master's degree and 4 successfully graduate PhD students. Scientific supervisor of 1 full-time doctoral student in the process of training, Department "Mineral processing and recycling".
Reviewer of theses, curricula, dissertations for obtaining scientific degrees and academic positions, research projects, scientific publications, etc.
Member of the Academic Council of the University of Mining and Geology «St. Ivan Rilski», 2020 - now.
Member of the Mineral Processing and Recycling Department Council, 2007 – now.
Member of the General Assembly of University of Mining and Geology, Sofia, Bulgaria, 2012 – now.
Member of the General Assembly of Faculty of Mining Technologies, 2016 – now.
Development of new lecture courses, seminars and workshops on subjects: Mining Waste Management - "Master" degree; Solid Fuel Processing Technologies - "Master" degree; Technological assessment of minerals - "Master" degree; Technologies for polymetallic ores processing - "Master" degree; Granulometric Raw Material Preparation – "Bachelor" degree; Fundamentals of Mineral Processing and Recycling - "Bachelor" degree; Processing and Recycling of Technogenic Raw Materials - "Bachelor" degree; Engineering Practices in the Processing of Minerals and Technogenic Raw Materials - "Bachelor" degree; Briquetting, Sintering and Pelletising - "Bachelor" degree.
Technical skills and practical experience with special equipment for measuring elektrokinetic potential of dispersed in a fluid nano- and microparticles - Zetasizer Nano ZS90, Malvern Instruments Ltd.

