

PERSONAL INFORMATION



Gheorghe Ilinca

 University of Bucharest, Faculty of Geology and Geophysics, Department of Mineralogy, 1, N. Bălcescu Blvd., Bucharest, Romania
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Sex M | Date of birth 14/11/1959 | Nationality Romanian

WORK EXPERIENCE

1998 to date

Associate professor

University of Bucharest, Department of Mineralogy, 1, N. Bălcescu Blvd., Bucharest, Romania – <https://gg.unibuc.ro/>

- Undergraduate courses of Mineralogy and Crystallography
- Master courses of Analytical Mineralogy and Clay Minerals
- Coordination of research projects

2002-2006

Business or sector Education, Scientific Research

Consultant geologist

SG-STANTEC International, Canada;
 AGRARO Consult SRL, Romania;
 MWH International, USA; RMGC S.A. Romania;
 Fischer & Partner Group SRL – Romania;
 AMECO, Netherlands

- Technical translation
- Review of EIA studies and mining exploration projects

Business or sector Geological exploration and environmental impact assessment

1998-2000

Consultant geologist and administrator

Transylvania Gold SRL, Bucharest (a subsidiary of Minera Andes Inc., Spokane, WA)

- Exploration research works in Voia (Apuseni Mts.) and Ostoros-Fierastraie (East Carpathians) areas

2000-2001

Invited research scientist – Royal Society of UK

University of Cambridge, Department of Earth Sciences

- Computational mineralogy

Business or sector Scientific research

1986-1998

Research scientist

Geological Institute of Romania, Caransebes str., 1, Bucharest – www.igr.ro

- Determinative mineralogy: electron transmission microscopy, electron diffraction, X-ray powder diffraction, infrared spectrometry, determination of reflectance and microhardness
- Optical microscopy of ore minerals
- Computer applications in mineralogy
- Crystal chemistry and parageneses of bismuth sulphosalts
- Metallic minerals in volcanic rocks
- General mineralogy
- Evaluation of mineral resources
- Mineral museology
- Mineralogy of skarn deposits
- Mineralogy of regionally metamorphosed ore deposits.

Business or sector Scientific research

1995-1996 Invited research scientist – Danish Rectors Conference

Geologisk Institut, Kobenhavns Universitet

- Ore microscopy and textural interpretation of ore parageneses
- Crystal chemistry and phase relations of sulfides and sulfosalts

[Business or sector](#) Scientific research

1995 Invited research scientist – NATO

Universita di Torino, Dipartimento di Scienze della Terra

- Practical structural crystallography
- Single crystal X-ray diffraction

[Business or sector](#) Scientific research

1994 Maître de conference associee

Laboratoire de Mineralogie, Museum d'Histoire Naturelle, Paris

- Crystal chemistry of sulfosalts

[Business or sector](#) Scientific research

1994 Invited research scientist

Julius Maximilian Universitat Wurzburg

- Crystal chemistry of sulfosalts

[Business or sector](#) Scientific research

1984-1986 Geological engineer, exploration project coordinator

I.F.L.G.S. – Enterprise for Drilling and Special Geological Works

- Geological exploration, field, mine and drill hole mapping
- Geochemical and mineralogical field work in Eastern Fagaras Mts.

[Business or sector](#) Geological exploration of ore deposits

EDUCATION AND TRAINING

1992-1999 PhD in Geology

University of Bucharest, Romania

- Crystal chemistry of bismuth sulfosalts from the Banatitic Province, Romania

1998 Graduation certificate

University of Bucharest, Romania

- Course of Pedagogy

1997 Graduation certificate

Eötvös Loránd University, Budapest, 1st EMU School of Mineralogy

- Modular aspects of minerals

1989 Certified Electron Microscopy Operator

SELMI-ELEKTRON, Sumy, Ukraine

- TEM, SEM, and vacuum techniques

1979-1984 Geological engineer, Master in geological engineering

University of Bucharest, Romania

- Geological and geophysical engineering, mineralogy, petrology, ore deposits

1974-1978 Baccalaureate

Mihai Viteazul National College, Bucharest, Romania

- Physics and mathematics

2009 Professional photographer

Avantaj Consulting, Bucharest, Romania

- Photography technique, digital post-processing

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Certificate of Proficiency in English, American University of Paris, 1994					
French	B2	B2	B2	B2	B2
German	A2	A2	A2	A2	A2

Communication skills

- Good communication skills gained through educational experience and involvement in research activities

Organisational / managerial skills

- Head of the Department of Mineralogy since 2004
- Management of X-ray and optical microscopy laboratories
- Management of research projects

Job-related skills

- Teaching abilities acquired in more than 23 years of activity in the Mineralogical Department, University of Bucharest
- More than 36 years of scientific research activities
- Crystal optics, microscopy in reflected and transmitted light, reflectivity and microhardness measurement
- Quantitative infrared spectroscopy and thermal differential analysis
- Scanning and transmission electron microscopy and electron diffraction, WDS and EDS electron microprobe analysis
- Single-crystal and powder X-ray diffraction, crystal structure analysis
- Determination of dielectric and elastic properties of minerals
- Computational methods in mineralogy: simulation of X-ray powder diffraction, calculation and analysis of reciprocal lattice, calculation of atomic interpotentials
- Mining, exploration, ore processing, geochemistry, hydrogeology and waste management aspects of EIA and SEA procedures
- Crystal chemistry of bismuth sulphosalts
- Charge distribution and bond valence sum analysis
- Coordination geometry and distortion

Computer skills

- Computer programming in Pascal-Delphi
- Advanced text processing (MS-Word, Open Office, Adobe InDesign, Quark Express)
- Spread sheet and data base (MS-Excel, MS-Access)
- Graphics (AUTOCAD, Adobe Photoshop, Adobe Illustrator, Corel Draw, Adobe Lightroom)

Other skills

- Technical translation (EN-RO,RO-EN): geology, geophysics, chemistry, mining industry, ore processing, mining waste dumps, tailings ponds, hidrology, hidrogeologie, environmental impact assessment, legislation, various socio-economic areas.
- Modelling of polyhedra by precision woodworking
- Drawing and painting
- Art photography
- Symmetrology of decorative art

Driving licence

- B

ADDITIONAL INFORMATION

Publications
Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References

Books and book chapters

UDUBASA G., PETREUS I., UDUBASA S., ILINCA G. (2018) – *Mineralogia și Cristalografia*. În Rădulescu D., Panin N., Anastasiu N., Brustur T. (coord.) "Istoria Geostiintelor în România - Științele Geologice", Civilizația Românească vol. 5, Editura Academiei Române, pp 17-35, ISBN 978-973-27-2910-6.

POPESCU GH.C., ILINCA G., NEACSU A., VERDES G. (2014) *The Gold Museum of Brad. Visiting Guide – Minerals*. Edit. Universității București, 62 p.

POPESCU GH.C., ILINCA G., NEACSU A., VERDES G. (2014) *The Gold Museum of Brad. Visiting Guide – Gold Samples*. Edit. Universității București, 58 p.

ILINCA G., BERZA T., IANCU V., SEGHEDI A. (2011) *Introduction to the Geology of the South Carpathians*. In: Ilinca G., Berza T., Iancu V., Seghedi A. *The Late Cretaceous Magmatic and Metallogenic Belt and the Alpine structures of the western South Carpathians*. 3rd International Symposium on the geology of the Black Sea Region, Bucharest, 1-10 October 2011. Field Trip Guidebook. 117 p. Geoecomar. ISBN 1224-6808.

BERZA T., ILINCA G. (2011) *Late Cretaceous magmatism and metallogenesis: the banatites*. In: Ilinca G., Berza T., Iancu V., Seghedi A. *The Late Cretaceous Magmatic and Metallogenic Belt and the Alpine structures of the western South Carpathians*. 3rd International Symposium on the geology of the Black Sea Region, Bucharest, 1-10 October 2011. Field Trip Guidebook. 117 p. Geoecomar. ISBN 1224-6808.

ILINCA G. (2011) *Contact metamorphism related to BMMB*. In: Ilinca G., Berza T., Iancu V., Seghedi A. *The Late Cretaceous Magmatic and Metallogenic Belt and the Alpine structures of the western South Carpathians*. 3rd International Symposium on the geology of the Black Sea Region, Bucharest, 1-10 October 2011. Field Trip Guidebook. 117 p. Geoecomar. ISBN 1224-6808.

ILINCA G. (2011) *Metallogeny of BMMB*. In: Ilinca G., Berza T., Iancu V., Seghedi A. *The Late Cretaceous Magmatic and Metallogenic Belt and the Alpine structures of the western South Carpathians*. 3rd International Symposium on the geology of the Black Sea Region, Bucharest, 1-10 October 2011. Field Trip Guidebook. 117 p. Geoecomar. ISBN 1224-6808.

ILINCA G. (2011) *Late Cretaceous volcanics in the Hateg and Rusca Montana Basins*. In: Ilinca G., Berza T., Iancu V., Seghedi A. *The Late Cretaceous Magmatic and Metallogenic Belt and the Alpine structures of the western South Carpathians*. 3rd International Symposium on the geology of the Black Sea Region, Bucharest, 1-10 October 2011. Field Trip Guidebook. 117 p. Geoecomar. ISBN 1224-6808.

ILINCA G., IANCU V. (2011) *Plutonic and subvolcanic Late Cretaceous magmatic rocks in Banat*. In: Ilinca G., Berza T., Iancu V., Seghedi A. *The Late Cretaceous Magmatic and Metallogenic Belt and the Alpine structures of the western South Carpathians*. 3rd International Symposium on the geology of the Black Sea Region, Bucharest, 1-10 October 2011. Field Trip Guidebook. 117 p. Geoecomar. ISBN 1224-6808.

ISI/BDI articles and abstracts

ILINCA G., TOPA, D., MAKOVICKY E., ZAGLER G. (2012) *Cupronevite, Cu₇Pb₂₇Bi₂₅S₆₈, a new mineral species from Baita Bihor, Romania*. Canadian Mineralogist, vol. 50/2, p. 353-370.

TOPA, D., MAKOVICKY, E., ILINCA, G., DITTRICH, H. (2012) *Cupromakopavonite, Cu₈Ag₃Pb₄Bi₁₉S₃₈, a new mineral species, its crystal structure and the cupropavonite homologous series*, Canadian Mineralogist, vol. 50/2, p. 295-312.

ILINCA G., MAKOVICKY E. (1999) *X-ray diffraction properties of pavonite homologues*. European Journal of Mineralogy, 11, 691-708.

ILINCA G., MAKOVICKY E. (1997) *Note on the definition of borodayevite [Ag₅(Fe,Pb)Bi₇]₁₃(Sb,Bi)₂S₁₇*. Neues Jahrbuch der Mineralogie Monatshefte, 1997(8), 337-353.

ILINCA GH. (2019) *Ludovic Mrazec, Professor and Head of Department*. Revue Roumaine Géologie, 63, 21-27, Bucharest.

ILINCA G. (2019) *Cannizzarite occurrences in Romania*. In: Seghedi A., Ilinca G., Mocanu V. editors: Geosciences in the 21st Century. Symposium dedicated to the 80th anniversary of professor Emil Constantinescu. Extended Abstracts. Geoecomar, special issue, 87-90.

- POPESCU GH. C., ILINCA G., NEACSU A. (2015) *The Au/Ag ratio in samples of Romanian native gold from the Gold Museum of Brad, Romania*. Romanian Journal of Mineral Deposits, vol. 88 (2015), No. 1-2, p. 33-41
- NEACSU A., ILINCA G., POPESCU GH. C. (2014) *Mineralogy of vivianite from Rosia Poieni. Metallogenetic significance*. Pangea, 15, 1-5.
- ILINCA G. (2012) *Upper Cretaceous Contact metamorphism and related mineralization in Romania*. Acta Mineralogica-Petrographica, Szeged, Vol. 7, p. 59-64
- POPESCU GH.C., ILINCA G., NEACSU A., VERDES G. (2014) *The Gold Museum of Brad. Characterization of native gold samples and of other minerals*. Romanian Journal of Mineral Deposits, vol. 86/2, 122 p
- ILINCA G. (2010) *Contact metamorphism and mineralization related to Late Cretaceous magmatism*. IMA2010 – General Meeting, Field Trip Guide Series, Acta Universitatis Szegediensis – Acta Mineralogica-Petrographica, Szeged, 105 p.
- ILINCA G., IONESCU C., GHERGARI L. (2009) *“Chalcedony” of Trestia, Maramures, Romania – Revisited*. Studia Universitatis Babes-Bolyai, Special issue 2009.
- MARINCEA ST., ILINCA G., DUMITRAS D., SEGHEDI A., FULOP A. (2006) *Mineralogical, chemical and cristallochemical studies on minerals with Romanian type localities*. Annuary of the Geological Institute of Romania, Volume 74, 200-202.
- ILINCA G. (2006) *Rare sulphosalt minerals in Romania*. Acta Universitatis Szegediensis – Acta Mineralogica-Petrographica. Volume 5, 42-46, Szeged 2006.
- ILINCA G., VIZITIU AL., TOPA D., VLAD S. (2006) *A new occurrence of manganilvaite $\text{CaFe}^{2+}\text{Fe}^{3+}(\text{Mn}^{2+}, \text{Fe}^{2+})[\text{Si}_2\text{O}_7]\text{O}(\text{OH})$ at Dognecea, Southwestern Banat, Romania: chemical composition, crystal structure and cation ordering*. Acta Universitatis Szegediensis – Acta Mineralogica-Petrographica. Volume 5, 47, Szeged 2006.
- ILINCA G., POP D., COSTIN D., PUICA F.T. (2005) *The relationship between the crystal-chemistry and the morphology of Stibnite from Baia Mare*. GEO-2005 Proceedings of the Annual Scientific Session of the Geological Society of Romania. Rosia Montana, 20-21 May, 2005, 40-52.
- VIZITIU AL., ILINCA G., STANCIU I. (2005) *The crystal structure determination and cation ordering analysis of Mn-ilvaite from Dognecea, South-western Banat*. Romanian Journal of Mineral Deposits, 81, Special Issue.
- STANCIU I., VIZITIU AL., ILINCA G. (2004) *Crystal chemistry of Mn-ilvaite from Dognecea, South-western Banat*. Romanian Journal of Petrology, 79, Suppl. 1, 51-52.
- ILINCA G., MAKOVICKY E. (1999) *Bismuth sulphotellurides in the Banatitic Province, Romania*. Analele Universitatii Bucuresti, XLVIII, Suppl., 40–41.
- ILINCA G., MAKOVICKY E. (1999) *Chemical characterisation and paragenesis of nuffledite from Valea Seaca, Bihor Mts., Romania*. Romanian Journal of Mineralogy, 79, Suppl. 1, 40.
- UDUBASA G., ILINCA G., UDUBASA S. (1998) *Mineral Parageneses and Ore Deposits: How to Manage New Classifications*. Rom. J. of Mineral Deposits, Vol. 78, Suppl. 1, p. 5
- UDUBASA G., HARTOPANU P., ILINCA G., VALDMAR ST. (1996) *The regionally metamorphosed Mn-Fe deposit at Răzoare, Preluca Mts., Romania*. Romanian Journal of Mineral Deposits 77, 3-20.
- ILINCA G., TATU M. (1994) *Bismuth sulphosalts in the quartz veining from the Pricopan granite, North Dobrogea, Romania. A new occurrence*. Analele Universitatii Bucuresti, XLIII, Supplement, 14-15.
- ILINCA G., MARINCEA ST. (1993) *Hydrotungstite from Oravita-Ciclova and Baita Bihor: the first occurrences in Romania*. Romanian Journal of Mineralogy, 76, Suppl. 1, 24-25.
- ILINCA G., COOK N.J. (1995) *Note on the Cu-Ag-Pb/Bi sulphosalts from Baita Bihor and Valea Seaca*. Romanian Journal of Mineralogy, 77.
- ILINCA G. (1993) *Oxide minerals in Neogene volcanic rocks of East Carpathians and Apuseni Mountains: a comparative study*. Romanian Journal of Mineralogy, 76, Supplement 1, 23-24.
- ILINCA G. (1992) *REFBASE - A computer program for handling mineralogical reference data*. Romanian Journal of Mineralogy, 75, Supplement Nr. 1, 20.

ILINCA G. (1992) *Bismuth sulphosalt assemblages in copper ore deposits at Oravita-Ciclova, south-western Banat*. Romanian Journal of Mineralogy, 75, Supplement Nr. 1, 19-20.

UDUBASA G., ILINCA G., MARINCEA ST., SABAU G., RADAN S. (1992) *Minerals in Romania: the state of the art 1991*. Romanian Journal of Mineralogy, 75, 1-51.

ILINCA G. (1989) *The chalcedony of Trestia - Maramures*. D.S. Inst. Geol. Geof., 74/1 (1987), 21-34.

ILINCA G., MARINCEA ST., IANCU V., RUSSO-SANDULESCU D., SEGHEDI I. (1993) *Mineral occurrences in South-western Banat, Romania*. Rom. Journal of Mineralogy, 76, Suppl. 2, 38 p.

NEDELCU L., ILINCA G. (1988) *Structural elements and mineralisation in the East Fagaras Mts*. D.S. Inst. Geol. Geof., 72-73/2 (1985;1986), 65-72 (in Romanian).

CONSTANTINESCU E., ILINCA G., ILINCAA. (1988) *Laramian hydrothermal alteration and ore deposition in the Oravita-Ciclova area. South-western Banat*. D.S. Inst. Geol. Geof., 72-73/2 (1985-86), 13-26.

CONSTANTINESCU E., ILINCA G., ILINCAA. (1988) *Contributions to the study of the Oravita - Ciclova skarn occurrence, south-western Banat*. D.S. Inst. Geol. Geof., 72-73/2 (1985;1986), 27-45.

Articles and abstracts in peer-reviewed publications and conference volumes (unindexed)

BERZA T., ILINCA G. (2014) *Late Cretaceous Banatitic magmatism and metallogeny in the frame of the Eoalpine tectonics from the Carpathian-Balkan orogen*. In: Beqiraj A. et al., Eds.: *Proceedings of the XXth Congress of the Carpathian – Balkan Geological Association*, September 24-26, 2014; Tirana, Albania. Buletini i Shkencave Gjeologjike, Special Issue, vol. 1, 145-148.

VLAD S.N., BERZA T., SEGHEDI A., MARINCEA S., ILINCA G. (2006) *The Upper Cretaceous Banatitic Magmatic and Metallogenetic Belt in the Alpine Carpathian-Balkan Chain of Europe*. GSA Specialty Meetings, Abstracts with Programs, no. 2 / AGA Publicaciones Especiales, Resúmenes y Eventos, serie D, n. 9, p.79; Global Meeting of AGA & GSA "Backbones of the Americas, Patagonia to Alaska", 3-7 April 2006, Mendoza, Argentina.

PROTOPOPESCU N., PLAIASU Z., DURUS D., RADU D., DUMITRESCU O., RADU M., ILINCA G. (2006) *Complex database for the quality control with alphanumerical records and digital images referring to the nucleation and crystallization of silicate glasses*. Proceedings of the XI-th International Conference on the Physics of Non-Crystalline Solids held in Rhodes, Greece, from 28 October – 3 November 2006, Rhodes, Greece.

ILINCA G., POP D., COSTIN D., PUICA F.T. (2005) *The relationship between the crystal-chemistry and the morphology of Stibnite from Baia Mare*. GEO-2005 Proceedings of the Annual Scientific Session of the Geological Society of Romania. Rosia Montana, 20-21 May, 2005, 40-52.

UDUBASA G., SEGHEDI I., SZAKACS AL., ILINCA G. (1994) *Distinguishing between lava flows and non-erupted bodies in calc-alkaline volcanic areas (abstr.)*. International Volcanology Congress, IAVCEI 1994, Ankara, Turkey, September, 12-16, Abstracts Volume.

UDUBASA G., ILINCA G. (1994) *Mineral parageneses and classification of mineral deposits*. The 16th Symposium of IAGOD, 12-18 August 1994, Beijing, China, Abstracts Volume, 1, 146-147.

ILINCA G. (1994) *Paragenetic study of bismuth sulfosalt assemblages from Romanian skarn deposits*. IMA 16th General Meeting, 4-9 September 1994, Pisa, Italy, Abstracts Volume, p. 183.

Plenary lectures:

- *Bi-minerals related to contact metamorphism in Romania*, Mineralogisches Institut der Universität Würzburg, July, 1994.

- *Sulfosels de bismuth liés aux minéralisations de skarn en Roumanie*, Muséum Nationale d'Histoire Naturelle, Paris, February, 1995.

- *Bi-sulphosalts related to skarn deposits in Romania*, Danish Mineralogical Club, Copenhagen, November, 1995.

- *Crystal chemistry of several interesting families of Bi-sulphosalts*, Danish Mineralogical Club, Copenhagen, December, 2001.

- *Parageneses of ore minerals in the skarn deposits of Romania. How complicated an ore sequence can be?*, Danish Mineralogical Club, Copenhagen, December, 2001.

- *Modular crystallography of Bi-sulphosalts*, Dipartimento di Scienze Mineralogiche e Petrologiche, Università degli Studi di Torino, Italia, May 2002.

- *Ore mineralogy related to skarn deposits in Romania*, Dipartimento di Scienze Mineralogiche e Petrologiche, Università degli Studi di Torino, Italia, May 2002.

Recent mining and economical developments of the Roșia Montană gold deposit. University of Salzburg, Dept. Of Geography, Geology and Mineralogy, Austria, June 2005.

- *Interesting families of Bi-sulphosalts related to skarn deposits in Romania*. University of Salzburg, Dept. Of Geography, Geology and Mineralogy, Austria, June 2005.

- *Rare sulphosalt minerals in Romania*. Plenary lecture: 3rd Mineral Sciences in the Carpathians Conference, Miskolc, Hungary, March 2006.

Honours and Awards:

Romanian Academy Award for Mineralogy, 1999

Memberships:

Geological Society of Romania (since 1990) – president of GSR Bucharest Branch (until 2012)

Founding member of the Mineralogical Society of Romania (since 1992)

Member of „Ludovic Mrazec” Geological Society (since 2000)

Member of the Romanian Society for Economic Geology (since 1998)