

Personal information

Surname / First name **APOPEI ANDREI IONUȚ**
 Age **30**
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 Websites <http://geology.uaic.ro/andrei.apopei/>
https://researchgate.net/profile/Andrei_Apopei

Research highlights / statistics Publications: **21** / Citations: **91** / *h*-index: **4**

Work experience

2017 – onward **Associate Professor, PhD, “Alexandru Ioan Cuza” University, Department of Geology, Romania**
 Teaching and Research
 ▪ Courses and laboratory: Mineralogy, Crystallography, Igneous Petrology, Optical Mineralogy, Field courses, scientific advisor for BSc theses.
 ▪ Research (areas of interest): Mineralogy and geochemistry of ore deposits, Vibrational spectrometry, Environmental geochemistry.
 ▪ IMA-CNMNC member (<http://nrmima.nrm.se>).

2015 – 2017 **Senior Lecturer, PhD, “Alexandru Ioan Cuza” University, Department of Geology, Romania**
 Teaching and Research
 ▪ Courses and laboratory: Mineralogy, Crystallography, Igneous Petrology, Optical Mineralogy, Field courses, scientific advisor for BSc theses.
 ▪ Research (areas of interest): Mineralogy and geochemistry of ore deposits, Vibrational spectrometry, Environmental geochemistry.

2011 – 2015 **Teaching assistant, “Alexandru Ioan Cuza” University, Department of Geology, Romania**
 Teaching and Research
 ▪ Courses and laboratory: Mineralogy, Crystallography, Igneous Petrology, Optical Mineralogy, Geoinformatics, Field courses.
 ▪ Research (areas of interest): Mineralogy and geochemistry of ore deposits, Vibrational spectrometry, Environmental geochemistry.

Education and training

2018 **ERASMUS+ Teaching Staff Mobility**

▪ University of Huelva, Spain

2011 – 2014 **PhD degree in *Mineralogy and geochemistry of ore deposits***
 Theme of the doctoral thesis: “*Mineralogy and geochemistry of polymetallic mineralization from Coranda- Hondol (Metaliferi Mts., ROMANIA)*”, under the scientific supervision of Prof. dr. Damian Gheorghe
http://geology.uaic.ro/andrei.apopei/Apopei_Andrei_PhD_thesis_abstract.pdf

August 2014 **POSDRU research fellowship**
 ▪ Performing μ -Raman analyzes, macro-photos at binocular loupe @ Matej Bel University, Faculty of Natural Sciences, Banská Bystrica, Slovakia

2009 – 2011 **Master studies in *Environmental Geochemistry***
 ▪ Principal studied disciplines / occupational skills covered: Spectrometry in geosciences, supergene alteration of rocks, geostatistic with applications in geochemical modeling @ “Alexandru Ioan Cuza” University, Faculty of Geography and Geology, Iași

2010 – 2011 **LLP Erasmus scholarship, Belgium**
 ▪ Principal studied disciplines / occupational skills covered: Soil mineralogy, Optical spectroscopy of materials, Geographic information systems (GIS) @ Gent University, Belgium

2006 – 2009 Bachelor studies in Geochemistry

- Principal studied disciplines / occupational skills covered: Mineralogy, Igneous, Metamorphic and Sedimentary Petrology, Metallogeny, Geochemistry
- @ “Alexandru Ioan Cuza” University, Faculty of Geography and Geology, Iași

Personal skills

Mother tongue Romanian

| Other languages | Understanding | | | | Speaking | | | | Writing | |
|-----------------|---------------|------------------|---------|-----------------|--------------------|------------------|-------------------|------------------|--------------------|------------------|
| | Listening | | Reading | | Spoken interaction | | Spoken production | | Written expression | |
| English | B2 | Independent user | C1 | Proficient user | B1 | Independent user | B1 | Independent user | B2 | Independent user |

(*) *Common European Framework of Reference for Languages*

Analytical competences

I'm capable to work with the following analytical techniques: Raman and μ -Raman spectrometry, Infrared spectrometry, X-ray diffraction, SEM-EDX, electronic microprobe, atomic absorption spectroscopy, optical microscope.

Organizational / managerial skills and competences

- Organized person with a good experience in project and team management gained through coordination and member of several research projects: MINGEN (project leader, budget: 4500 €), Chevron contract no. C981073 (member, responsible for AAS analyses and sampling, budget: 152000 €).
- Team working skills and ability to adapt to multi-cultural environments gained through my Erasmus scholarship and research fellowships (Belgium, Slovakia).
- Organizing student field trips in the following years 2012 - 2016.
- Member Scientific Board in Carpathian Journal of Earth and Environmental Sciences (ISSN 1842-4090).

Computer Skills

- Microsoft Office suite. Knowledge and use of specialized applications: QGIS, ArcGIS, Jmol (+ scripting), OriginPro.
- Knowledge and use of JAVA and Android programming languages used successfully to projects / applications related to current research interests:
 - **Apopei A. I.** - Raman Data Search and Storage (RDSS): A Raman spectra library software using peaks position for fast and accurate identification of unknown inorganic compounds (<http://rdss.sourceforge.net>) (with over 4000 downloads).
 - **Apopei A. I.** – Geology Toolkit (<https://play.google.com/store/apps/details?id=mvpm.minerals.and.rocks>) (with over 10000 downloads).
 - **Apopei A. I.** - Java Virtual Petrographic Microscope (jVPM) (<http://jvpm.sourceforge.net>) (with over 1000 downloads).
- Knowledge and use of the following programming languages HTML5 (+ CSS3), PHP, JavaScript, jQuery, SQL, XML, used successfully to creating projects / applications related to current research interests:
 - Buzgar N., **Apopei A. I.**, Buzatu A. - Romanian Database of Raman Spectroscopy (<http://rdrs.uaic.ro>) (cited in international scientific articles (ISI) and with a high impact factor).
 - **Apopei A. I.** - Infrared Spectra Database of Mineral Species (<http://ft-ir.ro>).
 - **Apopei A. I.** - The Mohs scale clock (<http://geology.uaic.ro/andrei.apopei/mohs/>)
- Operating systems: (Windows 7/10) and Linux.

The most relevant 5 papers:

1. **Apopei A.I.**, Damian G., Buzgar N., Buzatu A., Andráš P., Milovská S. – The determination of the Sb/As content in natural tetrahedrite-tennantite and bournonite-seligmannite solid solution series by means of Raman spectrometry. *Mineralogical Magazine*, 81(6), pp. 1439-1456, <http://doi.org/10.1180/minmag.2017.081.008>, IF = 1.285 / 2017.
2. **Apopei A. I.**, Damian G., Buzgar N., Buzatu A., (2016) Mineralogy and geochemistry of Pb–Sb/As-sulfosalts from Coranda-Hondol ore deposit (Romania) – Conditions of telluride deposition, *Ore Geology Reviews*, v. 72, pp. 857-873, DOI: 10.1016/j.oregeorev.2015.09.014, IF = 3.819 / 2015.
3. **Apopei A. I.**, Buzgar N., Damian G., Buzatu A., (2014) The Raman study of weathering minerals from the Coranda-Hondol open pit (Certej gold-silver deposit) and their photochemical degradation products under laser irradiation, *Canadian Mineralogist*, v. 52, pp. 1027-1038, DOI: 10.3749/canmin.1300054, IF = 1.181 / 2014.
4. Buzatu A., Dill H. G., Buzgar N., Damian G., Maftei A., **Apopei A. I.** (2016) Efflorescent sulfates from Baia Sprie mining area (Romania) – Acid mine drainage and climatological approach, *Science of the Total Environment*, v. 542, pp. 629-641, DOI: 10.1016/j.scitotenv.2015.10.139, IF = 3.976 / 2015.
5. Buzatu A., Damian G., Dill H. G., Buzgar N., **Apopei A. I.** (2015) Mineralogy and geochemistry of sulfosalts from Baia Sprie ore deposit (Romania) – New bismuth minerals occurrence, *Ore Geology Reviews*, 65-1, pp. 132-147, DOI: 10.1016/j.oregeorev.2014.09.016, IF = 3.819 / 2015.

01 September 2018

Assoc. Prof. Dr. Andrei Ionut APOPEI