

# Name: Platon Gkamaletsos (a.k.a. Platon Gamaletsos)

Father Name:	Nikolaos Gkamaletsos [Rear Admiral (Ret.) / Ex Inspector General of the Hellenic Navy]
Mother Name:	Argyroula Paparizou [Commander (Ret.) of the Hellenic Navy]
Birth:	04 Oct 1973
Citizen / Nationality:	Greek / Hellenic
Marital status:	Married
Languages:	Greek (mother tongue); English (professional working proficiency); Danish (basic knowledge)

# **Biographical information**

Dr. Platon N. Gkamaletsos (a.k.a. Platon Gamaletsos; ResearcherID: N-2459-2018 & ORCID: 0000-0002-1171-9032) is an Assistant Professor of Applied Mineralogy-Petrology at the School of Mineral Resources Engineering, Technical University of Crete / TUC (Chania, Greece). He is specialized in various primary and secondary mineral resources (e.g., ore deposits, byproducts, mineral waste streams, etc.) with more experience in metal/mineral characterization of disciplinary mining & metallurgical fields. He received his PhD in the field of (nano)-mineralogy/-geochemistry of ore deposits and their metallurgical residues (2014). Over the last years -among others- he was a research associate (Marie Curie post-doc) as part of the EU-funded project HC Ørsted Postdoc programme at the Center for Electron Nanoscopy / CEN, Technical University of Denmark / DTU (2015-2018). Afterwards, he was a postdoc researcher (research associate) at the Department of Materials Engineering, KU Leuven (Belgium) and, later, at the Institute of Nuclear & Radiological Sciences and Technology, Energy & Safety of NCSR "Demokritos" (Greece). Apart from his professor position at TUC, he is a visiting professor at the Institute of Nuclear & Radiological Sciences and Technology, Energy & Safety of NCSR "Demokritos" (Greece) and a visiting research associate (external co-worker at KU Leuven) at the Sustainable Metals Processing and Recycling Unit, Department of Materials Engineering (MTM) of KU Leuven (Belgium). He is a member of the Editorial, Topics & Reviewer Boards and a reviewer in journals. He has several publications in international peer-reviewed journals, while has attended numerous international conferences presenting his research activities. He has also been involved in several research programs supported by European Union. He is member of the Geochemical Society and the Marie Curie Alumni Association.

#### Keywords / tags

Mineral resources; ore deposits; metallurgical residues; mineral waste streams; metallurgical slags; industrial wastes; industrial sludges; incineration ashes; sustainability; recovery; base metals; strategic metals; critical metals; noble metals; heavy metals; hazardous (toxic/radioactive) elements; bonus & penalty elements; nanogeoscience; (nano)-mineralogy; (nano)-geochemistry; (geo)-materials; electron microscopy; X-ray absorption spectroscopy; SEM; TEM; (μ)-XAFS.

#### Current status

- Assistant Professor of Applied Mineralogy-Petrology at the School of Mineral Resources Engineering, Technical University of Crete (Chania, Greece)
- ✓ Visiting Professor:
  - Environmental Research Laboratory (EREL), Institute of Nuclear & Radiological Sciences and Technology, Energy & Safety (INRASTES), National Centre of Scientific Research "Demokritos" (NCSR "Demokritos", Agia Paraskevi, Athens, Attica, Greece).
- ✓ Visiting Research Associate (external co-worker at KU Leuven):
  - Sustainable Metals Processing and Recycling Unit, Department of Materials Engineering (MTM), KU Leuven, Belgium.

# 1. ACADEMIC & RESEARCH QUALIFICATIONS/SKILLS

#### Education / academic qualifications

- Postdoctoral Researcher in (nano)-mineralogy & chemistry in various metallurgical residues and materials characterization / materials science (supervisor Assoc. Prof. Dr. Yiannis Pontikes), Department of Materials Engineering, KU Leuven, Βέλγιο (2019 – 2020)
- Postdoctoral Researcher in (nano)-mineralogy/-geochemistry of various ore deposits and metallurgical residues (supervisor Senior Researcher Dr. Takeshi Kasama), Center for Electron Nanoscopy (CEN), Technical University of Denmark (DTU), Denmark (2015 – 2018)
- PhD in (nano)-mineralogy/-geochemistry of ore deposits and metallurgical residues (supervisor Prof. Dr. Athanasios Godelitsas), Faculty of Geology & Geoenvironment, School of Science, National and Kapodistrian University of Athens / NKUA, Greece (2006 – 2014)
- BSc in Geology & Geoenvironment, Faculty of Geology & Geoenvironment, School of Science, National and Kapodistrian University of Athens / NKUA, Athens, Greece (2005)
- Graduated from Private School "I.M.Panagiotopoulos", Palaeo Psychiko, Athens, Greece (1991)

#### Specialized courses / schools / workshops / seminars – attended

- Oxford Instruments Seminar on High resolution and light elemental analysis in TEM & SEM, Center for Electron Nanoscopy (CEN), Technical University of Denmark (DTU), Kongens-Lyngby, Copenhagen, Denmark (March 6, 2017)
- Electron microscopy for the characterization of advanced materials (10250), Center for Electron Nanoscopy (CEN), Technical University of Denmark (DTU), Kongens-Lyngby, Copenhagen, Denmark (August - November, 2016)

- 11<sup>th</sup> School on the Physics and Chemistry of the Actinides (11th SPCA), European Photon and Neutron (EPN) Science Campus, Grenoble, France (March 13-16, 2016)
- Electron Microscopy and techniques for imaging and analysis on the micro- and nano-scale, Technical University of Denmark, Kongens Lyngby, Copenhagen, Denmark (February 2, 2016)
- XANES and EXAFS analysis using the IFEFFIT program package with <u>Bruce Ravel</u> (NSLS, USA) as guest lecturer. The lecture was part of the course "EXAFS and related techniques in catalysis" at the Institute for Chemical Technology and Polymer Chemistry (ITCP), the Institute for Catalysis Research and Technology (IKFT), the Institute for Photon Science and Synchrotron Radiation (IPS) and the ANKA Synchrotron Radiation Facility, KIT Campus South, Karlsruhe, Germany, September 10-14, 2012.
- XAFS spectroscopy: Introduction, measurement, data evaluation, KIT Campus North, Synchrotron Radiation Source ANKA, Karlsruhe, Germany, November 23-25, 2010 (a grant by Deutsche Mineralogische Gesellschaft – DMG).
- Clay minerals characterization course, Laboratory of Geochemistry, Department of Mineralogy-Petrology-Economic Geology, School of Geology, Aristotle University of Thessaloniki (Thessaloniki, Greece).

# Featured analytical skills

- SEM-EDS/-WDS, STEM mode on SEM: Research and hands-on operation experiences in various SEM instruments with emphasis to FEI Inspect S (especially for WDS) and to FEI Quanta 200 FEG SEM.
- TEM/HRTEM in TEM mode (BF, SAED, and EDX): Research and hands-on operation experiences in a FEI Tecnai T20 G<sup>2</sup> FEG TEM operated at 200 kV. User of a FEI Titan Analytical 80-300ST FEG TEM operated at 300 kV. Experienced in TEM instrument operation and day-to-day maintenance/optimization of TEM condition (FEI Tecnai T20 G<sup>2</sup> FEG TEM, TEM CM-200 FEG Philips).

- **TEM-EELS:** Experienced in EELS measurements using a FEI Titan Analytical 80-300ST FEG TEM operated at 300 kV, and in EELS spectral evaluation.
- SEM & TEM data analysis: Experienced in SEM & TEM data analysis using relevant software packages such as WinCasino, SRIM, Crystal Diffract, Single Crystal, Crystal Maker, Gatan Digital Micrograph, INCA, Aztec and Esprit.
- Sample preparation for TEM observation (including the conventional preparation methods): *Ar ion milling* (advanced experience) *SEM-FIB* (beginning experience) *NanoMill TEM specimen preparation after FIB* (advanced experience)
- **XANES/EXAFS:** Experienced in spectral evaluation and interpretation using Athena & Artemis as well as IGOR Pro, PyMca and Origin Pro software packages.
- PXRD: Experienced in powdered samples measurements and PXRD data evaluation using the EDA (Bruker), the HighScore Plus (PANalytical) and the TOPAS (Bruker; for quantification and refinement parameters) software packages.
- Optical Microscope: Experienced in the study of various samples using the Zeiss Axio Imager.Z1m (with AXIOVISION 4.7 software) motorized optical microscope in transmitted and reflected light.

# 2. ACADEMIC FELLOWSHIPS/AWARDS and RESEARCH & FUNDED PROJECTS

## Fellowships, grants, honors & awards

- Visiting Fellow at the KU Leuven to conduct research at the Faculty of Engineering Science (Department of Materials Engineering / MTM), Leuven, Belgium, 2015.
- Grant by International Union of Crystallography (IUCR), International X-ray Absorption Society (IXAS), Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) and American Physical Society (APS) for participation in the "XAFS16 - 16<sup>th</sup> International Conference on X-ray Absorption Fine Structure", Karlsruhe, Germany, August 23-28, 2015.
- Research scholarships IKYDA: "Biogenic Sulfur Minerals in the Shallow–Submarine Environment of the Hellenic Volcanic Arc". The Hellenic State Scholarships Foundation (IKY) and the German Society for Academic Exchanges (DAAD) have been running the IKYDA program based on a bilateral agreement to further promote the scientific cooperation of the Tertiary Education Institutes, as well as the research institutes, in Greece and Germany. IKYDA grants our group to study the biogenic sulfur minerals in the shallow-submarine environment of the Hellenic Volcanic Arc (HVA) focusing on the shallow-sea sediments off Milos Island (Aegean Sea, Greece) in close collaboration with the SUL-X beamline for environmental studies of the ANKA Synchrotron Radiation Facility (2015).
- Grant of Fellowship by KIT/ANKA as Assistant Beamline Scientist at SUL-X Beamline of ANKA Synchrotron Radiation Facility of the Institute for Photon Science and Synchrotron Radiation (IPS), Karlsruhe Institute of Technology, Karlsruhe, Germany (2012).
- ANKA Synchrotron Highlights 2010/2011 (The nature of thorium in Greek aluminium ores and their residues).

 Grant by Deutsche Mineralogische Gesellschaft – DMG for participation in the Course "XAFS spectroscopy: Introduction, measurement, data evaluation", ANKA Synchrotron Radiation Facility, Karlsruhe Institute of Technology, Karlsruhe, Germany (2010).

# Funded projects

# As Principal Investigator (PI) / Promotor

 Marie Curie Fellowship as part of the EU-funded project HC Ørsted Postdoc, cofunded by Marie Curie Actions (COFUNDPostdocDTU) at the Center for Electron Nanoscopy (CEN), Technical University of Denmark (DTU), 2015-2018. The project was entitled as "Nanoscale electron microscopic investigation of strategic & hazardous elements in critical raw materials and metallurgical residues". This project received the EU funds\* upon Dr. Platon Gamaletsos' proposal in February of 2015.

The frame-budget was as follows:

Total: 1,125,000.00 kr. (~150,000 euros)

# As participant (employment status)

 Removing the waste streams from the primary Aluminium production and other metal sectors in Europe / Acronym: RemovAL (3E180673)<sup>+</sup> at the Department of Materials Engineering (MTM), KU Leuven, Belgium, 2019-2020.

Funder: European Union

Program: H2020-SC5-Climate action, resources, efficiency and raw materials

Promotor (from the KU Leuven partner)<sup>‡</sup>: Prof. Dr. Yiannis Pontikes

The frame-budget was as follows:

RemovAL has been granted a total budget of 11,481,599.13 euros.

<sup>\*</sup> H.C. Ørsted fellowship programme Funding from the European Union's Seventh Framework Programme and Horizon 2020 Research and Innovation Programme under Marie Sklodowska-Curie Actions grant no. 609405 (FP7) and 713683 (H2020): <u>https://cordis.europa.eu/project/rcn/185528\_en.html</u>

<sup>&</sup>lt;sup>†</sup> The research leading to these results has been performed within the REMOVAL project and received funding from the European Community's Horizon 2020 Programme (H2020/2014-2020) under grant agreement n° 776469: https://www.removal-project.com/

<sup>&</sup>lt;sup>‡</sup> <u>https://www.kuleuven.be/onderzoek/portaal/#/projecten/3E180673</u>

#### Participation in research projects

- Distribution and speciation of rare-earth elements and yttrium (REY) of REY-rich pelagic deepsea sediments in the northwestern Pacific Ocean by means of electron microscopy and synchrotron radiation techniques – Center for Electron Nanoscopy / CEN of Technical University of Denmark / DTU (Copenhagen, Denmark), Japan Agency for Marine-Earth Science and Technology / JAMSTEC, University of Tokyo / Todai and Chiba Institute of Technology / CIT (Japan) in collaboration with ANKA Synchrotron Radiation Facility / KIT, Karlsruhe, Germany (2017).
- Distribution and speciation of REE and thorium in European eudialyte ores and Th,REE-containing metallurgical residues/slags Center for Electron Nanoscopy / CEN of Technical University of Denmark / DTU (Copenhagen, Denmark) in collaboration with University of St. Andrews (UK) and the Mineral Resources Research Group of the Institute for Geo-Resources and Environment (Geological Survey of Japan, National Institute of Advanced Industrial Science and Technology / AIST, Tsukuba, Japan). Synchrotron radiation measurements have been performed mainly at the ANKA Synchrotron Radiation Facility / KIT, Karlsruhe, Germany (ANKA project ID: A2016-027-011253) and, additionally, at the Diamond Light Source, Oxfordshire, UK (Diamond proposal ID: 15903).
- Investigation of scandium and lanthanides (REEs) in high-grade karst-type bauxite from Greece

   Center for Electron Nanoscopy / CEN of Technical University of Denmark / DTU (Copenhagen, Denmark) in collaboration with the Department of Electrical and Materials Science and the Ultramicroscopy Research Center at the Kyushu University (Fukuoka, Japan) and the Mineral Resources Research Group of the Institute for Geo-Resources and Environment (Geological Survey of Japan, National Institute of Advanced Industrial Science and Technology / AIST, Tsukuba, Japan).
- Micro-/nano-scale study of noble metals of mixed sulfide ore deposits Center for Electron Nanoscopy / CEN of Technical University of Denmark / DTU (Copenhagen, Denmark) in collaboration with the Laboratory for Biological Geochemistry (LGB) of the École Polytechnique Fédérale de Lausanne / EPFL, Lauzanne, Switzerland (2016-2017). This project concerns thorough study of "invisible" gold from mixed sulfide ore deposits by means of electron microscopic techniques (SEM/TEM) along with secondary ion mass spectrometry (NanoSIMS).

- The nature of thorium in REE-bearing coastal deposits of northern Greece Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility / KIT, Karlsruhe, Germany (2015). Project ID: A2015-025-008636.
- Speciation of arsenic in Fe-Ni-ores (laterites) from active mining areas (central Greece) Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility / KIT, Karlsruhe, Germany (2014). Measurements have been performed additionally within the A2014-024-006751 project.
- Biogenic sulfur minerals in the environment of eastern Mediterranean volcanoes: the case of shallow-sea hydrothermal vents off Milos Island (Greece) – Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility (KIT, Karlsruhe, Germany). It will be funded by the European Commission under the Seventh Framework Programme European I3 project CALIPSO (CALIPSO integrated infrastructure initiative, 2014). Project ID: A2014-024-006751.
- Speciation of iron in Aluminium ores (bauxites) and their residues (red mud) from active mining areas (Greece) Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility (KIT, Karlsruhe, Germany). Funded by the Institute for Photon Science and Synchrotron Radiation (IPS) and the ANKA Light Source of KIT, Germany (2012). Measurements have been performed as in-house project of ANKA/SUL-X beamline.
- Speciation of iron in Cr-spinels from Chromium mines in Northern Greece Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility (KIT, Karlsruhe, Germany). Funded by the Institute for Photon Science and Synchrotron Radiation (IPS) and the ANKA Light Source of KIT, Germany (2012). Measurements have been performed as in-house project of ANKA/SUL-X beamline.

- The nature of uranium in sedimentary rocks of Epirus region (NW Greece) Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility (KIT, Karlsruhe, Germany). Funded by the Institute for Photon Science and Synchrotron Radiation (IPS) and the ANKA Light Source of KIT, Germany (2012). Project ANS-114.
- The nature of silver and gold in mining products of Chalkidiki (northern Greece) Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility (KIT, Karlsruhe, Germany). Funded by the Institute for Photon Science and Synchrotron Radiation (IPS) and the ANKA Light Source of KIT, Germany (2012). Project ENV-234.
- The nature of As-sulfide precipitates of the shallow-sea hydrothermal vents off Milos Island (Hellenic Volcanic Arc) – Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility (KIT, Karlsruhe, Germany). Funded by the ANKA Synchrotron Light Source of KIT, Germany (2012). Measurements have been performed additionally within the ENV-218 project.
- The nature of As in hydrothermal vents of Kolumbo shallow-submarine volcano of the Hellenic Volcanic Arc (Santorini, Greece) – Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility (KIT, Karlsruhe, Germany). Funded by the ANKA Synchrotron Light Source of KIT, Germany (2012). Measurements have been performed additionally within the ENV-218 project.
- Distribution and speciation of contaminants in bauxite and red mud from Ajka alumina plant, Hungary – Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility (KIT, Karlsruhe, Germany). Funded by the ANKA Synchrotron Light Source of KIT, Germany (2012). Project ENV-218.
- Thorium chemistry in Greek bauxites and bauxite-tailings (red mud) using X-ray absorption spectroscopy – Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility (KIT, Karlsruhe,

Germany). Funded by the European Commission: Integrated Infrastructure Initiative (I3) "European Light Sources Activities" (ELISA, 2009). Project ENV-122.

- Speciation of Cr in natural clays from Crommyonia volcanic area, Greece Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility (KIT, Karlsruhe, Germany). Funded by the European Commission: Integrated Infrastructure Initiative (I3) "European Light Sources Activities" (ELISA, 2008). Measurements have been performed additionally within the ENV-111 project.
- Partitioning and speciation of Cr in high-quality diasporic bauxite from Greece Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece) in collaboration with ANKA Synchrotron Radiation Facility (KIT, Karlsruhe, Germany). Funded by the European Commission: Integrated Infrastructure Initiative (I3) "European Light Sources Activities" (ELISA, 2008). Measurements have been performed additionally within the ENV-111 project.
- Uranium distribution and speciation in carbonate rocks from the greater Attica region, Greece

   Department of Geology and Geoenvironment of University of Athens / UoA (Athens, Greece)
   in collaboration with ANKA Synchrotron Radiation Facility (KIT, Karlsruhe, Germany). Funded by
   the European Commission: ENV-111, Integrated Infrastructure Initiative (I3) "European Light
   Sources Activities" (ELISA, 2008).

# **3. RESEARCH INTERESTS**

# Short STATEMENT of RESEARCH

My main research interest is related to metal/mineral characterization of disciplinary mining & metallurgical fields. In particular, I thoroughly study metals/minerals from natural mineral resources (such as primary metal ore deposits) as well as from mineral waste streams (such as metallurgical residues, metal slags, incineration ashes, industrial sludges, etc.). My main objective is to assist mining/metallurgical industry and engineers to exploit & recover valuable metals/minerals by a sustainable development of cost-effective metals extraction for industry and society, while reducing a risk to the local communities next to the industrial complexes:

- A. (Nano)-mineralogical and (nano)-geochemical investigation of various mineral resources, such as ore deposits and industrial minerals, as well as the discovery of supplementary potential mineral resources:
  - I. Al-ore deposits "Bauxites" from Greece, Balkans and Hungary.
  - II. Ni-Fe-ore deposits "Laterites" from Greece.
  - III. Cr-ore deposits "Chromites" from Greece.
  - IV. **Mn-ore** deposits from Greece.
  - V. Au-containing mixed sulfides ore deposits from Greece.
  - VI. **REE ore deposits** from Nordic region and Greenland.
- VII. REY-rich pelagic deep-sea sediments in the northwestern Pacific Ocean\*
- VIII. Zeolite- & clay-rich deposits from Greece.
- IX. Investigation of **coastal sands as promising mineral resources** from Mediterranean region for their potential in **strategic metals**.
- B. Materials characterization of mineral waste streams, such as:
  - i. Metallurgical residues, e.g. bauxite metallurgical residue (the so-called "red mud"), etc.
  - ii. Metallurgical slags derived from red mud processing
  - iii. By-products
  - iv. Medical/hospital wastes incinerator ashes

<sup>\*</sup> In collaboration with Japanese Universities/Institutes (i.e., Japan Agency for Marine-Earth Science and Technology / JAMSTEC, University of Tokyo / Todai and Chiba Institute of Technology / CIT) and, particularly, with Chief Scientist Dr. Junichiro Ohta at the Chiba Institute of Technology / CIT (Japan), who is member of Professor Yasuhiro Kato's group of University of Tokyo / Todai.

To meet my professional needs, I am focusing on the material investigation at different scales, with emphasis to micro- and nano-scale, mainly using electron microscopic (SEM-EDS/WDS) and nanoscopic (TEM/HRTEM) techniques along with Synchrotron radiation (SR) X-ray absorption spectroscopic methodologies ( $\mu$ -XRF,  $\mu$ -XRD and ( $\mu$ )-XANES/-EXAFS). In addition, I combine Laserbased (Laser micro-Raman, LA-ICP-MS), together with other spectroscopic (NanoSIMS, FTIR, 57Fe Mössbauer), and thermal techniques (TGA-DSC). Simultaneously, gamma-ray spectrometry (HPGe) for the determination of natural radioactivity for various (geo)-materials is utilized. To sum up, I apply advanced and sophisticated techniques and state-of-the-art combinatorial methodologies in order to understand the nature of basic, strategic, critical and noble metals (e.g., Al, Fe, Cr, Pb, Zn, Sb, Ti, Ga, REEs, Ag, Au, etc.) as well as potential hazardous elements (e.g., Th, U, As, V, etc.) for mining/metallurgical industry and society, which are in low concentration and are localized at the micro-/nano-meter in ores, metallurgical residues and other mineral waste streams. I, therefore, join forces with engineers for a near-zero-waste processes afterward a development of a costeffective metal recovery ending to a final polymer-bonded composite or other building materials. The research and development of innovative and sustainable processes for industry and society striving towards to waste recycling by valuable metal recovery ending to high quality building materials production (circular economy) is the vital expectation.

# 4. SCIENTIFIC & RESEARCH EXPERIENCE

# OTHER ACTIVITIES

## (a) Teaching Experience

Teaching & co-teaching the following undergraduate courses at the School of Mineral Resources Engineering (Technical University of Crete, Chania, Greece):

- Introduction to Mineralogy & Crystallography & Material Science
- Mineralogy & Microscopy
- Applied Microscopy in Mineral Resources & Raw Materials
- Petrology
- Field Courses II

#### (b) Contribution in postgraduate research

During my research carrier in academia, I contributed in research performed in the frame of several MSc, PhD Thesis and postdoc research programs established at the National & Kapodistrian University of Athens / NKUA and Aristotle University of Thessaloniki / AUTh (Greece):

- Ms. Sofia Kalatha PhD Thesis entitled "Metallogenetic processes associated with the formation of bauxitic laterites and Ni-laterites – enrichment of rare earth elements" (2017). Supervisor: Professor Dr. Maria Economou-Eliopoulos, Faculty of Geology & Geoenvironment, NKUA, Greece.
- Mr. Evangelos Tzamos PhD Thesis entitled "Mineralogy, Petrology and ore geology of the Xerolivado Ophiolites (Vourinos, Western Macedonia, Greece)" (2016). Supervisor: Professor Dr. Anestis Filippidis, AUTh, Greece.
- Ms. Mika Gousgouni MSc Thesis entitled "Antimony fixation in solid phases at the Hydrothermal Field of Kolumbo Submarine Arc-Volcano (Santorini): Deposition model and environmental implications" (2014). Supervisor: Professor Dr. Stephanos Kilias, Faculty of Geology & Geoenvironment, NKUA, Greece.

# (c) Scientific & research experience / career

2020 – present	Assistant Professor of Applied Mineralogy-Petrology at the School of Mineral Resources
	Engineering, Technical University of Crete (Chania, Greece).
2020 – present	Visiting Professor at the Environmental Research Laboratory (EREL), Institute of Nuclear
	& Radiological Sciences and Technology, Energy & Safety (INRASTES), National Centre of
	Scientific Research "Demokritos" (NCSR "Demokritos", Agia Paraskevi, Athens, Greece).
2020 – present	Visiting Research Associate (external co-worker at KU Leuven) at the Sustainable Metals
	Processing and Recycling Unit, Department of Materials Engineering (MTM), KU Leuven,
	Belgium.
2019 – present	Expert Evaluator at H2020 FETOPEN-01-2018-2019-2020: FET-Open Challenging Current
	Thinking, which is part of the Future and Emerging Technologies (FET) programme /
	Research and Innovation Actions (RIA)
2019 – 2020	Researcher at the Environmental Research Laboratory (EREL), Institute of Nuclear &
	Radiological Sciences and Technology, Energy & Safety (INRASTES), National Centre of
	Scientific Research "Demokritos" (NCSR "Demokritos", Agia Paraskevi, Athens, Greece).
	The subject of the research is related to the characterization of ore deposits and
	metallurgical residues as well as to the strategic metals' utilization in energy
	applications.
2019 – 2020	Postdoctoral Researcher (Research associate) at the Sustainable Metals Processing and
	Recycling Unit, Department of Materials Engineering, KU Leuven, Belgium:
	(i) <u>Quality Assurance Specialist</u> of the Sustainable Resources for Engineered Materials /
	SReMat (https://www.mtm.kuleuven.be/Onderzoek/sremat) of the SReMat Innovation
	Society (https://www.mtm.kuleuven.be/Onderzoek/sremat/centre)
	(ii) <u>Power User</u> of the " <b>SReDat</b> " Secondary Resource database:
	http://www.sreway.info/sredat/http://www.sreway.info/sredat/)
2018	Visiting researcher fellow at the Center for Electron Nanoscopy (CEN) of the Technical
	University of Denmark (DTU). The subject of the research was related to mineralogical
	and geochemical investigation of ore deposits and other mineral resources.
2015 – 2018	Postdoctoral Researcher at the Center for Electron Nanoscopy (CEN) of the Technical
	University of Denmark (DTU) awarded by a Marie Curie Fellowship as part of the EU-
	funded project HC Ørsted Postdoc, cofunded by Marie Curie Actions
	(COFUNDPostdocDTU). Supervisor: Senior Researcher Dr. Takeshi Kasama. The project
	entitled as "Nanoscale electron microscopic investigation of strategic & hazardous
	elements in critical raw materials and metallurgical residues" was related to

	mineralogical and geochemical investigation of ore deposits and other mineral
	resources. I used various nanoscale characterization techniques such as scanning
	electron microscopy, transmission electron microscopy and synchrotron radiation-based
	X-ray spectroscopy as well as other conventional bulk analytical techniques (XRD, ICP-
	MS, etc.).
2015	Visiting Fellow at the Faculty of Engineering Science (Department of Materials
	Engineering / MTM) of the KU Leuven, Belgium.
2015 – 2015	Research scholarships 12 months – IKYDA: "Biogenic Sulfur Minerals in the Shallow–
	Submarine Environment of the Hellenic Volcanic Arc". The Hellenic State Scholarships
	Foundation (IKY) and the German Society for Academic Exchanges (DAAD) have been
	running the IKYDA program based on a bilateral agreement to further promote the
	scientific cooperation of the Tertiary Education Institutes, as well as the research
	institutes, in Greece and Germany. IKYDA grants Assoc. Prof. Dr. Athanasios Godelitsas'
	group to study the biogenic sulfur minerals in the shallow-submarine environment of
	the Hellenic Volcanic Arc (HVA) focusing on the shallow-sea sediments off Milos Island
	(Aegean Sea, Greece) in close collaboration with the SUL-X beamline for environmental
	studies of the ANKA Synchrotron Radiation Facility (2015). For the research purposes,
	many analytical techniques and methods had been used. Among others, SEM/TEM,
	XAFS, XRD, ICPMS and FTIR had been utilized.
	XAFS, XRD, ICPMS and FTIR had been utilized. <b>Project Leader:</b> Associate Professor Dr. Athanasios Godelitsas.
2014 - 2015	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of</li> </ul>
2014 - 2015	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens</li> </ul>
2014 - 2015	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens (NTUA). The subject of the research was related to mineralogical and geochemical</li> </ul>
2014 – 2015	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens (NTUA). The subject of the research was related to mineralogical and geochemical investigation of bauxite deposits and their metallurgical residues.</li> </ul>
2014 - 2015 2014 - 2016	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens (NTUA). The subject of the research was related to mineralogical and geochemical investigation of bauxite deposits and their metallurgical residues.</li> <li>Research Associate at the Material and Environmental Isotope Geochemistry Project (Dr.</li> </ul>
2014 - 2015 2014 - 2016	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens (NTUA). The subject of the research was related to mineralogical and geochemical investigation of bauxite deposits and their metallurgical residues.</li> <li>Research Associate at the Material and Environmental Isotope Geochemistry Project (Dr. E. Dotsika group) of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR</li> </ul>
2014 - 2015 2014 - 2016	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens (NTUA). The subject of the research was related to mineralogical and geochemical investigation of bauxite deposits and their metallurgical residues.</li> <li>Research Associate at the Material and Environmental Isotope Geochemistry Project (Dr. E. Dotsika group) of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece). The subject of the research was related to isotope geochemistry</li> </ul>
2014 - 2015 2014 - 2016	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens (NTUA). The subject of the research was related to mineralogical and geochemical investigation of bauxite deposits and their metallurgical residues.</li> <li>Research Associate at the Material and Environmental Isotope Geochemistry Project (Dr. E. Dotsika group) of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece). The subject of the research was related to isotope geochemistry of bauxite deposits from Parnassos-Ghiona area (Greece).</li> </ul>
2014 - 2015 2014 - 2016 2014	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens (NTUA). The subject of the research was related to mineralogical and geochemical investigation of bauxite deposits and their metallurgical residues.</li> <li>Research Associate at the Material and Environmental Isotope Geochemistry Project (Dr. E. Dotsika group) of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece). The subject of the research was related to isotope geochemistry of bauxite deposits from Parnassos-Ghiona area (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the</li> </ul>
2014 - 2015 2014 - 2016 2014	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens (NTUA). The subject of the research was related to mineralogical and geochemical investigation of bauxite deposits and their metallurgical residues.</li> <li>Research Associate at the Material and Environmental Isotope Geochemistry Project (Dr. E. Dotsika group) of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece). The subject of the research was related to isotope geochemistry of bauxite deposits from Parnassos-Ghiona area (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> </ul>
2014 - 2015 2014 - 2016 2014 2014 2006 - 2014*	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens (NTUA). The subject of the research was related to mineralogical and geochemical investigation of bauxite deposits and their metallurgical residues.</li> <li>Research Associate at the Material and Environmental Isotope Geochemistry Project (Dr. E. Dotsika group) of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece). The subject of the research was related to isotope geochemistry of bauxite deposits from Parnassos-Ghiona area (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> </ul>
2014 - 2015 2014 - 2016 2014 2014 2006 - 2014* *PhD defense	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens (NTUA). The subject of the research was related to mineralogical and geochemical investigation of bauxite deposits and their metallurgical residues.</li> <li>Research Associate at the Material and Environmental Isotope Geochemistry Project (Dr. E. Dotsika group) of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece). The subject of the research was related to isotope geochemistry of bauxite deposits from Parnassos-Ghiona area (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> <li>Researcher in the frame of PhD Thesis entitled as "Mineralogy and geochemistry of bauxites from Parnassos-Ghiona mines and the impact on the origin of the deposits" (in</li> </ul>
2014 - 2015 2014 - 2016 2014 - 2016 2014 2006 - 2014* *PhD defense date: 19.09.2014	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li>Project Leader: Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens (NTUA). The subject of the research was related to mineralogical and geochemical investigation of bauxite deposits and their metallurgical residues.</li> <li>Research Associate at the Material and Environmental Isotope Geochemistry Project (Dr. E. Dotsika group) of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece). The subject of the research was related to isotope geochemistry of bauxite deposits from Parnassos-Ghiona area (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Of bauxite of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> <li>Researcher in the frame of PhD Thesis entitled as "Mineralogy and geochemistry of bauxites from Parnassos-Ghiona mines and the impact on the origin of the deposits" (in English), mainly using Large Scale Facilities (all the aspects of X-rays), and nanoscale</li> </ul>
2014 - 2015 2014 - 2016 2014 - 2016 2014 2006 - 2014* *PhD defense date: 19.09.2014 *PhD graduation	<ul> <li>XAFS, XRD, ICPMS and FTIR had been utilized.</li> <li><b>Project Leader:</b> Associate Professor Dr. Athanasios Godelitsas.</li> <li>Research Associate at the Laboratory of Metallurgy (Prof. Dr. D. Panias group), School of Mining &amp; Metallurgical Engineering of the National Technical University of Athens (NTUA). The subject of the research was related to mineralogical and geochemical investigation of bauxite deposits and their metallurgical residues.</li> <li>Research Associate at the Material and Environmental Isotope Geochemistry Project (Dr. E. Dotsika group) of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece). The subject of the research was related to isotope geochemistry of bauxite deposits from Parnassos-Ghiona area (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> <li>Researcher at the Material and Environmental Isotope Geochemistry Project of the Institute of Nanoscience and Nanotechnology (INN) of the NCSR "Demokritos" (Greece).</li> <li>Researcher in the frame of PhD Thesis entitled as "Mineralogy and geochemistry of bauxites from Parnassos-Ghiona mines and the impact on the origin of the deposits" (in English), mainly using Large Scale Facilities (all the aspects of X-rays), and nanoscale methods, in collaboration with mining industry in Southeastern Europe (Greece,</li> </ul>

taking) date	: (bauxites) and their metallurgical residues (red mud). Supervisor: Associate Professor
11.12.2014	Dr. Athanasios Godelitsas.
2013	Assistant researcher at the Laboratory of Nuclear Physics, Department of Nuclear &
	Particle Physics, Faculty of Physics, University of Athens (Greece).
2012	Assistant Beamline Scientist (Research Fellow) at SUL-X beamline of ANKA Synchrotron
	Radiation Facility of the Institute for Photon Science and Synchrotron Radiation (IPS), KIT
	(Germany).
2007	Researcher at the Laboratory of Mineralogy of the Institute of Geology & Mineral
	Exploration (Athens, Greece).

# Member of Editorial, Topics & Reviewer Boards of peer-reviewed scientific journals

- Journal of Journal of Nanoscience with Advanced Technology (Editorial Board)
- Minerals MDPI (Reviewer Board)
- Minerals MDPI (Topics Board)

# Reviewer in peer-reviewed scientific journals

(See also my profile at Publons: https://publons.com/a/1524577)

- Chemical Geology
- Canadian Mineralogist
- Economic Geology
- Geofluids
- International Journal of Environmental Analytical Chemistry
- International Water Technology Journal
- Journal of Geochemical Exploration
- Minerals
- Ore Geology Reviews

## Member of committee of international conferences

- BR2020 3<sup>rd</sup> International Bauxite Residue Valorisation and Best Practices Conference, Member of International Scientific Committee, Constanta, Romania, 11 – 15 May, 2020
- BR2018 2<sup>nd</sup> International Bauxite Residue Valorisation and Best Practices Conference, Member of International Scientific Committee, Athens, Greece, 07 – 10 May, 2018.
- ERES 2017 2<sup>nd</sup> conference on European Rare Earth Resources, Member of International Scientific Committee, Santorini, Greece, 28 – 31 May, 2017.

#### Member of scientific associations

- Geochemical Society: <u>https://www.geochemsoc.org/</u>
- Marie Curie Alumni Association: <u>https://www.mariecuriealumni.eu/</u>

#### Military service

2001 - 2002: Military service in the Greek Naval Forces

# Other activities – skills

- Scuba diving (Open Water Diver PADI)
- > Ultra-light & Light Aircrafts
- > Tennis
- Basketball

# 5. PUBLICATION LIST

**PhD Thesis** (December 2014) entitled as "*Mineralogy and geochemistry of bauxites from Parnassos-Ghiona mines and the impact on the origin of the deposits*" (in English). The PhD Thesis focused on the mineralogical and geochemical investigation of Al ore deposits (bauxites) and their metallurgical residues (red mud) and its impact on the origin of the deposits. Supervisor: Assoc. Professor Dr. Athanasios Godelitsas.

Read online: https://www.didaktorika.gr/eadd/handle/10442/42199?locale=en

- RG score = 25.5 (ResearchGate)
- ✓ h-index = 11 (based on Google Scholar)
- ✓ i10-index = 15 (based on Google Scholar)
- Citations = 379 (based on Google Scholar)
- ✓ Publications (chapters in books & peer-reviewed articles) = 23 (based on Google Scholar)
- ✓ Average Impact Factor (I.F.) = 3.07
- ✓ Highest I.F. = 9.038
- ✓ Sum I.F. = 67.457
- ✓ ORCID: 0000-0002-1171-9032
- ✓ ResearcherID: N-2459-2018
- 1. Chapter in Books: 1
- 2. Peer-reviewed Articles: 22
- 3. Conference Abstracts & Chapters in Proceedings: 47
- 4. Large-Scale Facilities Reports: 6
- See also: <a href="https://publons.com/researcher/1524577/platon-gamaletsos">https://publons.com/researcher/1524577/platon-gamaletsos</a> <a href="https://scholar.google.com/citations?user=CazWQV8AAAAJ&hl=en">https://scholar.google.com/citations?user=CazWQV8AAAAJ&hl=en</a> <a href="http://orcid.org/0000-0002-1171-9032">http://orcid.org/0000-0002-1171-9032</a> <a href="https://www.researchgate.net/profile/Platon\_Gamaletsos">https://www.researchgate.net/profile/Platon\_Gamaletsos</a> <a href="http://publicationslist.org/platon.gamaletsos">http://publicationslist.org/platon.gamaletsos</a> <a href="http://publicationslist.org/platon.gamaletsos">http://publicationslist.org/platon.gamaletsos</a>

#### **Chapters in Books**

#1. P. Gamaletsos, A. Godelitsas, E. Dotsika, E. Tzamos, Jörg Göttlicher and A. Filippidis: Geological sources of As in the environment of Greece: a review, In: the volume "Threats to the Quality of Groundwater Resources: Prevention and Control" (A. Scozzari and E. Dotsika, Eds), Springer's review series "The Handbook of Environmental Chemistry", (2013) 77-113.

#### **Peer-reviewed Articles**

- **#22.** A. Rassios, E. Tzamos, Y. Dilek, M. Bussolesi, G. Grieco, A. Batsi, **P.N. Gamaletsos**: A Structural approach to the genesis of chrome ores within the Vourinos Ophiolite (Greece): Significance of ductile and brittle deformation processes in the formation of economic ore bodies in oceanic upper mantle peridotites, *Ore Geology Reviews* **125** (2020) **103684.**
- #21. E. Tzamos, P.N. Gamaletsos, G. Grieco, M. Bussolesi, A. Xenidis, A. Zouboulis, D. Dimitriadis, Y.
   Pontikes, A. Godelitsas: New insights into the mineralogy and geochemistry of Sb ores from
   Greece, *Minerals* 10 (2020) 236-252.
- #20. A.M. Borst, A.A. Finch, H. Friis, N.J. Horsburgh, P.N. Gamaletsos, J. Goettlicher, R. Steininger and K. Geraki: Structural State of Rare Earth Elements in Eudialyte-Group Minerals, *Mineralogical Magazine* 84 (2020) 19-34.
- #19. M. Samouhos, A. Godelitsas, Chr. Nomikou, M. Taxiarchou, P. Tsakiridis, J. Zavašnik, P.N. Gamaletsos and A. Apostolikas: New insights into nanomineralogy and geochemistry of Ni-laterite ores from Central Greece (Larymna and Evia deposits), Chemie Der Erde Geochemistry 79 (2019) 268-279.
- #18. I.T. Tzifas, A. Papadopoulos, P. Misaelides, A. Godelitsas, J. Göttlicher, H. Tsikos, P.N. Gamaletsos, G. Luvizotto, A.G. Karydas, M. Petrelli, F. Noli,V. Kantarelou, A. Kontofakas and A. Hatzidimitriou: New insights into the mineralogy, geochemistry and economic significance of an allanite- bearing Mediterranean coastal placer deposit (Kavala, N. Greece), *Chemie Der Erde Geochemistry* 79 (2019) 247-267.

- #17. P.N. Gamaletsos, A. Godelitsas, A. Filippidis and Y. Pontikes: The rare earth elements potential of Greek bauxite active mines in the light of a sustainable REE demand, *Journal of Sustainable Metallurgy* 5 (2019) 20-47.
- #16. P.N. Gamaletsos, S. Kalatha, A. Godelitsas, M. Economou-Eliopoulos, J. Göttlicher and R. Steininger: Arsenic distribution and speciation in the bauxitic Fe-Ni-laterite ore deposit of the Patitira mine, Lokris area (Greece), *Journal of Geochemical Exploration* 194 (2018) 189-197.
- #15. I. Mitsis, A. Godelitsas, J. Göttlicher, R. Steininger, P.N. Gamaletsos, M. Perraki, M.M. Abad-Ortega and M. Stamatakis: Chromium-bearing clays in altered ophiolitic rocks from Crommyonia (Soussaki) volcanic area, Attica, Greece, *Applied Clay Science* 162 (2018) 362-374.
- #14. I.T. Tzifas, P. Misaelides, A. Godelitsas, P.N. Gamaletsos, P. Nomikou, A.G. Karydas, V. Kantarelou, A. Papadopoulos: Geochemistry of coastal sands of Eastern Mediterranean: The case of Nisyros volcanic materials, *Chemie Der Erde Geochemistry* 77 (2017) 487-501.
- #13. E. Tzamos, A. Kapsiotis, A. Filippidis, A. Koroneos, G. Grieco, A. Ewing Rassios, N. Kantiranis, A. Papadopoulos, P.N. Gamaletsos and A. Godelitsas: Metallogeny of the Chrome Ores of the Xerolivado-Skoumtsa Mine, Vourinos Ophiolite, Greece: Implications on the genesis of IPGE-bearing high-Cr chromitites within a heterogeneously depleted mantle section, *Special Issue about Chromites Petrogenesis*, *Ore Geology Reviews* 90 (2017) 226-242.
- #12. P.N. Gamaletsos, A. Godelitsas, T. Kasama, N.S. Church, A.P. Douvalis, J. Göttlicher, R. Steininger, A. Boubnov, Y. Pontikes, E. Tzamos, T. Bakas and A. Filippidis: Nano-mineralogy and -geochemistry of high-grade diasporic karst-type bauxite from Parnassos-Ghiona mines, Greece, *Ore Geology Reviews* 84 (2017) 228-244.
- #11. I.T. Tzifas, U.A. Glasmacher, P. Misaelides, A. Godelitsas, P.N. Gamaletsos, J. Goettlicher and D.F. Godoy: Uranium-bearing francolites present in organic-rich limestones of NW Greece: A preliminary study using synchrotron radiation and fission track technique, *Journal of Radioanalytical and Nuclear Chemistry* 311 (2017) 465-472.

- #10. A. Filippidis, E. Tziritis, N. Kantiranis, E. Tzamos, P. Gamaletsos, G. Papastergios and S. Filippidis:
   Application of Hellenic natural zeolite in Thessaloniki industrial area wastewater treatment,
   Desalination and Water Treatment 57 (2016) 19702-19712.
- #09. E. Tzamos, A. Filippidis, A. Rassios, G. Grieco, K. Michailidis, A. Koroneos, K. Stamoulis, M. Pedrotti and P.N. Gamaletsos: Major and minor element geochemistry of chromite from the Xerolivado-Skoumtsa mine, Southern Vourinos: Implications for chrome ore exploration, *Journal of Geochemical Exploration* 165 (2016) 81-93.
- #08. P.N. Gamaletsos, A. Godelitsas, T. Kasama, A. Kuzmin, M. Lagos, T.J. Mertzimekis, J. Göttlicher,
   R. Steininger, S. Xanthos, Y. Pontikes, G.N. Angelopoulos, C. Zarkadas, A. Komelkov, E. Tzamos
   and A. Filippidis: The role of nano-perovskite in the negligible thorium release in seawater
   from Greek bauxite residue (red mud), *Scientific Reports* 6: 21737 (2016) 1-13.
- #07. A. Godelitsas, R.E. Price, T. Pichler, J. Amend, P. Gamaletsos and J. Göttlicher: Amorphous Assulfide precipitates from the shallow-water hydrothermal vents off Milos Island (Greece), Marine Chemistry 177 (2015) 687-696.
- #06. S.P. Kilias, P. Nomikou, D. Papanikolaou, P.N. Polymenakou, A. Godelitsas, A. Argyraki, S. Carey,
  P. Gamaletsos, T.J. Mertzimekis, E. Stathopoulou, J. Goettlicher, R. Steininger, K. Bejelou, I. Livanos, C. Christakis, C.B. Croff and M. Scoullos: New insights into hydrothermal vent processes in the unique shallow-submarine arc-volcano Kolumbo, Santorini, *Scientific Reports* 3: 2421 (2013) 1-13.
- #05. A.M. Muftah, P. Pavlakis, A. Godelitsas, P. Gamaletsos and N. Boaz: Paleogeography of the Eosahabi River in Libya: New Insights into the Mineralogy, Geochemistry and Paleontology of Member U1 of the Sahabi Formation, Northeastern Libya, *Journal of African Earth Science* 78 (2013) 86-96.
- #04. P. Gamaletsos, A. Godelitsas, T.J. Mertzimekis, J. Göttlicher, R. Steininger, S. Xanthos, J. Berndt,
   S. Klemme and G. Bárdossy: Thorium partitioning in Greek industrial bauxite investigated by synchrotron radiation and laser-ablation techniques, *Nuclear Instruments and Methods in Physics Research B* 269 (2011) 3067-3073.

- #03. I. Kougemitrou, A. Godelitsas, C. Tsabaris, V. Stathopoulos, A. Papandreou, P. Gamaletsos, G. Economou and D. Papadopoulos: Characterisation and management of ash produced in the hospital waste incinerator of Athens, Greece, *Journal of Hazardous Materials* 187 (2011) 421-432.
- **#02.** A. Godelitsas, **P. Gamaletsos** and M. Roussos-Kotsis: Mordenite-bearing tuffs from Prassa quarry, Kimolos Island, Greece, *European Journal of Mineralogy* **22/6** (2010) **797-811**.
- #01. E. Dotsika, D. Psomiadis, D. Poutoukis, B. Raco and P. Gamaletsos: Isotopic analysis for degradation diagnosis of calcite matrix in mortar and plaster, *Analytical and Bioanalytical Chemistry* 395 (2009) 2227-2234.

#### **Conference Abstracts & Chapters in Proceedings**

- #47. M. Giels, T. Hertel, P.N. Gamaletsos and Y. Pontikes: Transforming bauxite residue into high performance inorganic polymers: A feasible solution for all European refineries?, In: *Proceedings of the "3<sup>rd</sup> International Bauxite Residue Valorisation and Best Practices Conference / BR2020"*, Constanta, September 28 October 02, 2020. (Chapter in Conference Proceedings)
- #46. P.N. Gamaletsos, C.R. Borra, A. Godelitsas, E. Tzamos, A. Stubos and Y. Pontikes: Bauxite residue valorization towards an REE- & Th-rich byproduct, In: *Proceedings of the "3<sup>rd</sup> International Bauxite Residue Valorisation and Best Practices Conference / BR2020"*, Constanta, Romania, September 28 October 02, 2020. (Chapter in Conference Proceedings)
- #45. P.N. Gamaletsos, A. Godelitsas and Y. Pontikes: Nanogeoscience in ore and raw materials research, In: Proceedings of the "American Chemical Society / ACS Spring 2020 - Impact of Engineered & Natural Nanomaterials on the Environment: A symposium in Honor of Dr. Michael F. Hochella", Philadelphia, USA, May 22-26, 2020. (Invited Speaker - Conference Abstract) https://doi.org/10.1021/scimeetings.0c03661

- #44. A.M. Borst, A.A. Finch, H. Friis, N.J. Horsburgh, P.N. Gamaletsos, J. Goettlicher, R. Steininger and K. Geraki: Structural State of REE in Eudialyte-Hosted Critical Metal Deposits, In: *Proceedings of the "29<sup>th</sup> Annual V.M. Goldschmidt Conference"*, Goldschmidt 2019 Barcelona, Spain, August 18-23, 2019. (Conference Abstract)
- #43. P.N. Gamaletsos, A.M. Borst, T. Kasama, A.A. Finch, A. Godelitsas, I.T. Tzifas, Y. Pontikes, A. Filippidis: Studying the Local Distribution of Thorium in Eudialyte Deposits Associated with Peralkaline Igneous Rocks (Greenland) by Electron Microscopy & Spectroscopic Techniques, In: *Proceedings of the:* "15<sup>th</sup> International Congress of the Geological Society of Greece, Athens, Greece, May 22-24, 2019 (Extended Abstract)
- #42. I.T. Tzifas, P.N. Gamaletsos, A. Papadopoulos, A. Godelitsas, N. Kantiranis, P. Misaelides, A. Filippidis: Actinides and Rare Earth Elements (REE) in Sedimentary Formations of Greece: A Review, In: *Proceedings of the:* "15<sup>th</sup> International Congress of the Geological Society of Greece, Athens, Greece, May 22-24, 2019 (Extended Abstract)
- #41. E. Tzamos, G. Grieco, M. Bussolesi, A. Papadopoulos, S. Stoulos, E. Daftsis, D. Dimitriadis, P.N. Gamaletsos, A. Godelitsas, A. Filippidis: Mineral chemistry of sulphide minerals in concentrates of the Kassandra mines (Chalkidiki, Greece), In: *Proceedings of the: "XXI* International Congress of the Carpathian-Balkan Geological Association (CBGA)" Salzburg, Austria, September 10-13, 2018. (Conference Abstract)
- #40. T. Kasama, P.N. Gamaletsos, S. Escrig, Y. Kon, T.B. Zunic, B. Wenzell, L.H.S. Jensen, A. Meibom, T. Takagi, D. Dimitriadis and A. Godelitsas: Quantitative microscopic characterisation of natural 'invisible' gold, In: *Proceedings of the: "69<sup>th</sup> Annual Conference of the Nordic Microscopy Society (SCANDEM 2018)"* – Copenhagen Greater Area, Kgs. Lyngby, Denmark, June 25-28, 2018. (Conference Abstract)
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