

Petros Petrounias

*University Scholar
in "Applied Petrography"*



Personal Information

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Affiliation: Department of Geology, University of Patras,
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Education

- 2019** **Ph.D. in Geology** at the Department of Geology of the University of Patras, Greece. Thesis entitled: "Estimation of the effect of the mineralogical and petrographic characteristics of igneous rocks from central Macedonia on their physicommechanical properties. Evaluation of their behaviour as aggregates in construction and environmental applications"
- 2013** **MSc in Geology** at the Department of Geology of the University of Patras, Greece. Title: "Geosciences and Environment" in the Section of Mineral Raw Materials and the Environment
- 2011** **Degree in Geology** at the Department of Geology of the University of Patras, Greece

Professional experience

2016 – Present: Owner of office Environmental and Geotechnical services in Patras (Greece)

Teaching experience

Modules taught at the undergraduate course (Dept. of Geology, University of Patras, Greece):

- *Marbles and aggregate rocks (GEO_609E)*

Summary of Scientific Production and Impact

- h-index: 4/5 (Scopus / Google Scholar).
- Publications – Papers: 10 / Other Publications: 2 / Abstracts in congresses: 15
- Total number of citations : 32 (Scopus)
- Reviewer statistics : 5 reviews

Publications

A. In scientific journals

- ROGKALA, A., **PETROUNIAS, P.**, TSIKOURAS, B., HATZIPANAGIOTOU, K., 2017. New occurrence of pyroxenites in the Veria-Naousa ophiolite: implications on their origin and petrogenetic evolution. *Geosciences* 7 (4), 92.
- NIKOLAKOPOULOS, K.G., LAMPROPOULOU, P., PAPOULIS, D., ROGKALA, A., GIANNAKOPOULOU, P.P., **PETROUNIAS, P.**, 2018. Combined Use of Remote Sensing Data, Mineralogical Analyses, Microstructure Studies and Geographic Information System for Geological Mapping of Antiparos Island (Greece). *Geosciences* 8 (3), 96.
- **PETROUNIAS, P.**, GIANNAKOPOULOU, P.P., ROGKALA, A., STAMATIS, P.M., TSIKOURAS, B., PAPOULIS, D., LAMPROPOULOU, D., HATZIPANAGIOTOU, K., 2018. The Influence of Alteration of Aggregates on the Quality of the Concrete: A Case Study from Serpentinities and Andesites from Central Macedonia (North Greece). *Geosciences* 8 (4), 115.

- GIANNAKOPOULOU, P., **PETROUNIAS, P.**, ROGKALA, A., TSIKOURAS, B., STAMATIS, P.M., POMONIS, P., HATZIPANAGIOTOU, K., 2018. The Influence of the Mineralogical Composition of Ultramafic Rocks on Their Engineering Performance: A Case Study from the Veria-Naousa and Gerania Ophiolite Complexes (Greece). *Geosciences* 8 (7), 251.
- **PETROUNIAS, P.**, GIANNAKOPOULOU, P.P., ROGKALA, A., LAMPROPOULOU, P., KOUTSOPOULOU, E., PAPOULIS, D., TSIKOURAS, D., HATZIPANAGIOTOU, K., 2018. The Impact of Secondary Phyllosilicate Minerals on the Engineering Properties of Various Igneous Aggregates from Greece. *Minerals* 8 (8), 329.
- **PETROUNIAS, P.**, GIANNAKOPOULOU, P.P., ROGKALA, A., STAMATIS, P.M., LAMPROPOULOU, P., TSIKOURAS, B., HATZIPANAGIOTOU, K., 2018. The Effect of Petrographic Characteristics and Physico-Mechanical Properties of Aggregates on the Quality of Concrete. *Minerals* 8 (12), 577.
- GIANNAKOPOULOU, P.P., **PETROUNIAS, P.**, TSIKOURAS, B., KALAITZIDIS, S., ROGKALA, A., HATZIPANAGIOTOU, K., 2018. Using Factor Analysis to Determine the Interrelationships between the Engineering Properties of Aggregates from Igneous Rocks in Greece. *Minerals* 8 (12), 580.
- ROGKALA, A., **PETROUNIAS, P.**, TSIKOURAS, B., GIANNAKOPOULOU, P.P., HATZIPANAGIOTOU, K., 2019. Mineralogical Evidence for Partial Melting and Melt-Rock Interaction Processes in the Mantle Peridotites of Edessa Ophiolite (North Greece). *Minerals* 9 (2), 120.
- **PETROUNIAS, P.**, ROGKALA, A., GIANNAKOPOULOU, P.P., TSIKOURAS, B., LAMPROPOULOU, P., KALAITZIDIS, S., HATZIPANAGIOTOU, K., LAMBRAKIS, N., CHRISTOPOULOU, M.A., 2019. An Experimental Study for the Remediation of Industrial Waste Water Using a Combination of Low Cost Mineral Raw Materials. *Minerals* 9 (4), 207.
- **PETROUNIAS, P.**, GIANNAKOPOULOU, P.P., ROGKALA, A., LAMPROPOULOU, P., TSIKOURAS, B., RIGOPOULOS, I., HATZIPANAGIOTOU, K., 2019. Petrographic and Mechanical Characteristics of Concrete Produced by Different Type of Recycled materials. *Geosciences* 9 (6), 264.

B. In international congresses

- ROGKALA, A., **PETROUNIAS, P.**, TSIKOURAS, B., HATZIPANAGIOTOU, K., 2016. Petrogenetic significance of spinels from serpentinised peridotites from the Veria- Naousa ophiolite.-*Bulletin of the Geological Society of Greece, Proceedings 14th International Congress of the Geological Society of Greece, Thessaloniki, Greece, 25-27/5/2016, 50, 1999-2008.*
- **PETROUNIAS, P.**, ROGKALA, A., KALPOGIANNAKI, M., TSIKOURAS, B., HATZIPANAGIOTOU, K., 2016. Comparative study of physico-mechanical properties of ultrabasic rocks (Veria-Naousa ophiolite) and andesites from central Macedonia (Greece).-*Bulletin of the Geological Society of Greece, Proceedings 14th International Congress of the Geological Society of Greece, Thessaloniki, Greece, 25-27/5/2016, 50, 1989-1998.*

Abstract in international congresses

- **PETROUNIAS, P.**, GIANNAKOPOULOU, P.P, TSIKOURAS, B. & HATZIPANAGIOTOU, K. 2014. Comparative study of ophiolitic and carbonate rocks for their suitability as concrete aggregates.-8th International Symposium on Eastern Mediterranean Geology, Muğla, Turkey, 13-17/10/2014, Abstract Book, 148.
- **PETROUNIAS, P.**, GIANNAKOPOULOU, P.P., ROGKALA, A., LAMPROPOULOU, P., KOUTSOPOULOU, E., PAPOULIS, D., TSIKOURAS, B., HATZIPANAGIOTOU, K., 2017. Determination of clay and swelling clay minerals on aggregates by using a combination of three analytical methods: methylene blue test, sand equivalent test and semi-quantitative analysis by XRD. 16th International Clay Conference, ICC, Granada Spain, 7, 452.
- ZARONIKOLA, N., ROGKALA, A., **PETROUNIAS, P.**, GIANNAKOPOULOU, P.P., TSIKOURAS, B., HATZIPANAGIOTOU, K., 2017. An example of isocon analysis on rodingites from the Veria-Naousa ophiolite (north Greece). 1st International Congress on earth sciences in SE Asia, 87-88, Bandar Seri Begawan, Brunei Darussalam, 15-18 November, Abstract Book, 87-88.
- TSIGROU, P., LAMPROPOULOU, P., ILIOPOULOS, I., KALAMPOUNIAS, A.G., ROGKALA, A., GIANNAKOPOULOU, P.P., **PETROUNIAS, P.**, KARIPI, S., KATAGAS, C., 2017. Characterization of the volcanic rocks of Nichia area, Milos Island, Greece. 1st International Congress on earth sciences in SE Asia, 87-88, Bandar Seri Begawan, Brunei Darussalam, 15-18 November, Abstract Book, 88-89.

- **PETROUNIAS, P.,** GIANNAKOPOULOU, P.P., ROGKALA, A., SIDERIDIS, A., TSIKOURAS, B., HATZIPANAGIOTOU, K., 2017. A comparative study of mafic and ultramafic ophiolitic rocks from Greece for their suitability as concrete aggregates. 1st International Congress on earth sciences in SE Asia, 87-88, Bandar Seri Begawan, Brunei Darussalam, 15-18 November, Abstract Book, 95.
- NIKOLAKOPOULOS, K.G., LAMPROPOULOU, P., PAPOULIS, D., ROGKALA, A., GIANNAKOPOULOU, P.P., **PETROUNIAS, P.,** 2017. Combined use of remote sensing data, mineralogical analyses, microstructure studies, spectroscopy and Geographic Information System for geological mapping of Antiparos island (Greece). 1st International Congress on earth sciences in SE Asia, 87-88, Bandar Seri Begawan, Brunei Darussalam, 15-18 November, Abstract Book, 117.
- ZARONIKOLA, N., DEBAILLE, V., ROGKALA, A., **PETROUNIAS, P.,** TSIKOURAS, B., POMONIS, P., HATZIPANAGIOTOU, K., 2018. Progression of rodingitisation in the Veria-Naousa ophiolitic complex (Greece) seen by non-traditional stable isotopes. Goldschmidt, Boston, Massachusetts (USA).
- ROGKALA, A., **PETROUNIAS, P.,** GIANNAKOPOULOU, P.P. 2019. Petrographic and geochemical characteristics of mantle peridotites of Edessa ophiolite (North Greece). 15th International Congress of the Geological Society of Greece, 22-24 May, Athens, Bulletin of the Geological Society of Greece, Special Publication, 7, 385-286.
- STERGIOU, V., LAMPROPOULOU, P., **PETROUNIAS, P.,** GIANNAKOPOULOU, P.P., ROGKALA, A., HATZIPANAGIOTOU, K., 2019. Mineralogical and Petrographic study of magnesite and its host rocks at Mantoudi area of N. Euboea, Greece. 15th International Congress of the Geological Society of Greece, 22-24 May, Athens, Bulletin of the Geological Society of Greece, Special Publication, 7, 391-392.
- GIANNAKOPOULOU, P.P., **PETROUNIAS, P.,** ROGKALA, A., KALPOGIANNAKI, M., 2019. The artificial increase of microroughness of various recycled materials used as aggregates in concretes contributes to the increase of the final concrete strength. 15th International Congress of the Geological Society of Greece, 22-24 May, Athens, Bulletin of the Geological Society of Greece, Special Publication, 7, 673-674.
- KALPOGIANNAKI, M., **PETROUNIAS, P.,** ROGKALA, A., GIANNAKOPOULOU, P.P., POMONIS, P., TSIKOURAS, B., HATZIPANAGIOTOU, K., 2019. The impact of secondary phyllosilicate minerals on concrete strength produced from mafic and ultramafic aggregate rocks. 15th International Congress of the Geological Society of Greece, 22-24 May, Athens, Bulletin of the Geological Society of Greece, Special Publication, 7, 675-676.
- **PETROUNIAS, P.,** ROGKALA, A., GIANNAKOPOULOU, P.P., LAMPROPOULOU, P., 2019. Remediation of pH values and removal of Fe from Agios Philippos Kirkis mine through a new experimental electric device using low cost mineral raw materials. 15th International Congress of the Geological Society of Greece, 22-24 May, Athens, Bulletin of the Geological Society of Greece, Special Publication, 7, 677-678.
- ROGKALA, A., **PETROUNIAS, P.,** GIANNAKOPOULOU, P.P., TSIKOURAS, B., LAMPROPOULOU, P., HATZIPANAGIOTOU, K., 2019. Origin of chromitites of Edessa ophiolite (North Greece): Petrographic and mineralogical characteristics. 2nd International Congress on earth sciences in SE Asia, Nusa Dua Bali, Indonesia, 18-20 November, Abstract Book, 8-9.
- **PETROUNIAS, P.,** ROGKALA, A., GIANNAKOPOULOU, P.P., LAMPROPOULOU, P., TSIKOURAS, B., HATZIPANAGIOTOU, K., 2019. Remediation of pH values and removal of Cu from Agios Philippos Kirkis mines using a new experimental electric device using low cost mineral raw materials. 2nd International Congress on earth sciences in SE Asia, Nusa Dua Bali, Indonesia, 18-20 November, Abstract Book, 185-186.
- GIANNAKOPOULOU, P.P., **PETROUNIAS, P.,** RIGOPOULOS, I., ROGKALA, A., LAMPROPOULOU, P., TSIKOURAS, B., HATZIPANAGIOTOU, K., 2019. Propagation of different types of microcracks from Harzburgite and Lherzolite derived from Gerania ophiolite complex (Greece). 2nd International Congress on earth sciences in SE Asia, Nusa Dua Bali, Indonesia, 18-20 November, Abstract Book, 211-212.

