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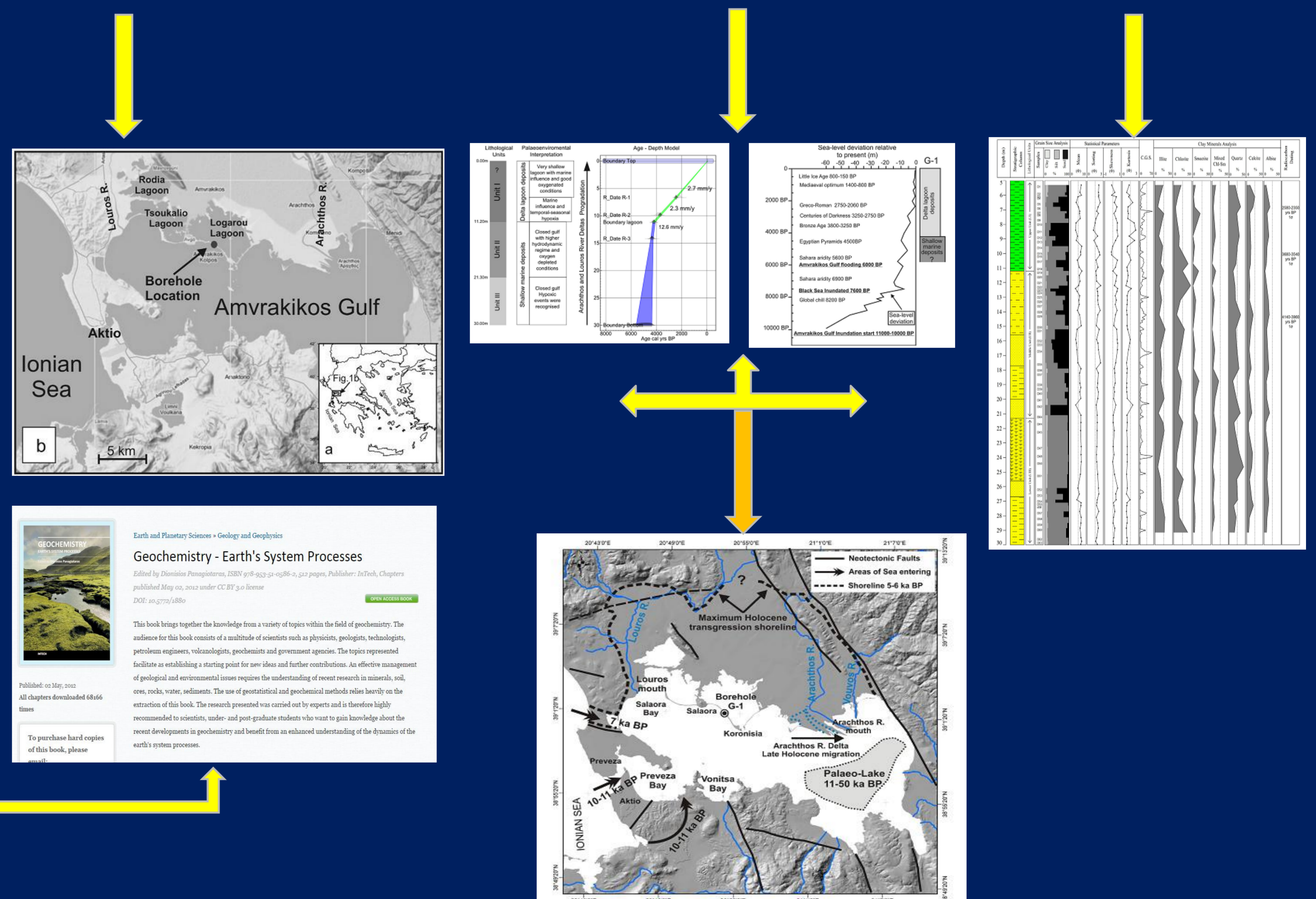
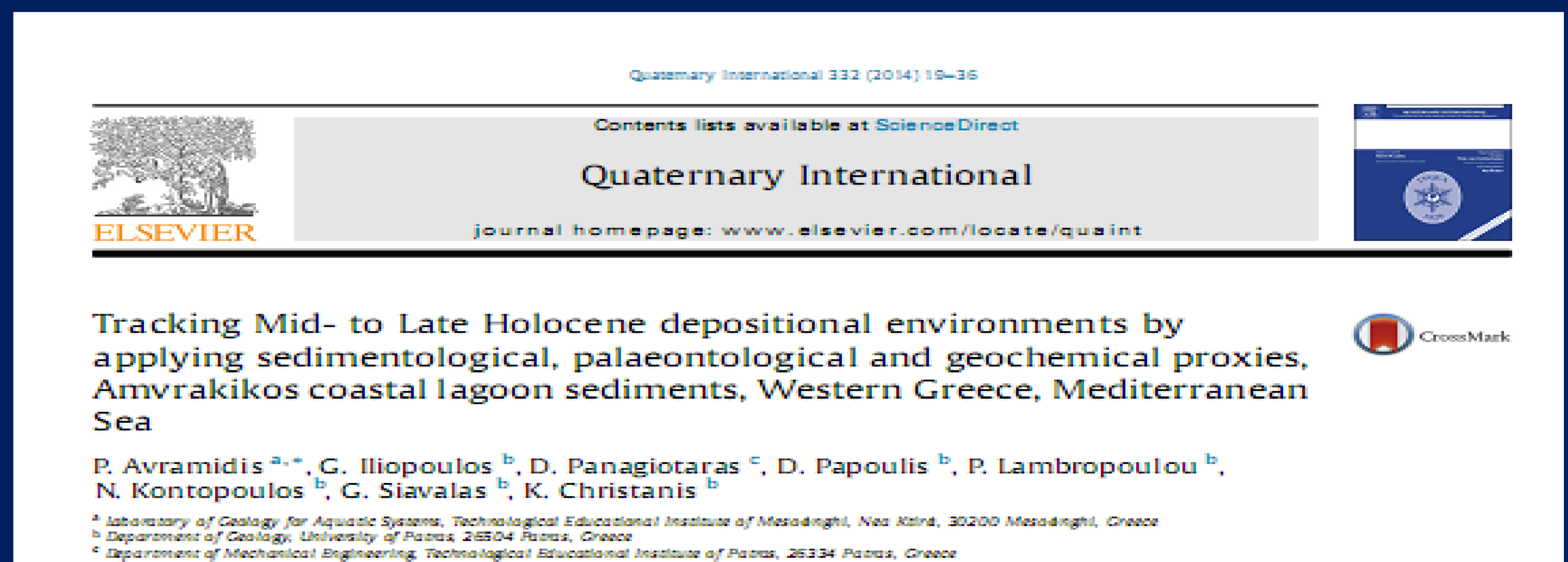
1. **D. Panagiotaras**, D. Papoulis, E. Stathatos (in press) Origin of Arsenic Toxicity – Geochemistry. In Arsenic Toxicity: Prevention and Treatment. Editor: Narayan Chakrabarty, CRC press, Taylor & Francis, publishers.
2. E. Stathatos, D.Papoulis, **D. Panagiotaras** (2014). Stabilized TiO₂ nanoparticles on clay minerals for air and water treatment. Chapter 18, in Advanced Oxidation Technologies – Sustainable solutions for environmental treatments. Editors: M. Litter, R. Candal & J.M. Meichtry, CRC publications, 350. pp.
3. **D. Panagiotaras**, G. Panagopoulos, D. Papoulis, P. Avramidis (2012). Arsenic Geochemistry in Groundwater System. Pages 27-38. In Geochemistry-Earth's System Processes. INTECH Publishers. Pages 500.
4. D. Papoulis, **D. Panagiotaras**, G. Panagopoulos (2012). Arsenic: Environmental Impact Reduction Using Natural and Modified Adsorbents. Pages 289-304 in Arsenic: Sources, Environmental Impact, Toxicity and Human Health - A Medical Geology Perspective. NOVA Publishers. ISBN: 978-1-62081-320-1.
5. G. Panagopoulos P. Giannouloupoulos and **D. Panagiotaras** (2011). Groundwater hydrochemistry of the volcanic aquifers of Limnos Island, Greece. In: Advances in the Research of Aquatic Environment, Vol. 2. Springer-Verlag Berlin Heidelberg Publishers. ISBN: 978-3-642-24075-1. Pages 512.
6. Geochemistry-Earth's System Processes (2012). **Editor, Dionisios Panagiotaras**, INTECH Publishers. Pages 500. ISBN: 978-953-51-0586-2.

Selected publications in peer reviewed journals

1. Avramidis, P., Iliopoulos, G., Kontopoulos N., **Panagiotaras, D.**, Barouchas P., Nikolaou K. (in press) Depositional environments, sediment characteristics, palaeoecological analysis and environmental assessment of an internationally protected shallow Mediterranean lagoon, Gialova Lagoon – Navarino Bay, Greece. Earth & Environmental Science Transactions of The Royal Society of Edinburgh.
2. D. Papoulis, S. Komarneni, **D. Panagiotaras** (2014). Geochemistry of halloysite-7Å formation from plagioclase in trachyandesite rocks from Limnos island, Greece. Clay Minerals, vol. 49, 75-89.
3. Avramidis, P., Iliopoulos, G., **Panagiotaras, D.**, Papoulis, D., Lambropoulou, P., Kontopoulos, N., Siavalas, G., Christanis, K. (2014). Tracking Mid-to Late Holocene depositional environments applying sedimentological, palaeontological and geochemical proxies of the Amvrakikos coastal lagoon sediments, Western Greece Mediterranean Sea. Quaternary International, vol. 332, 19-36.
4. G. Panagopoulos, **D. Panagiotaras**, P. Giannouloupoulos (2013). Groundwater Quality Assessment of the Limnos Island Volcanic Aquifers, Greece. Water Environment Research, Volume 85, Number 5, pp. 422-433.
5. **Panagiotaras, D.**, Papoulis, D., Kontopoulos N., Avramidis, P. (2012). Geochemical processes and sedimentological characteristics of Holocene lagoon deposits, Alikes Lagoon Zakynthos island, Western Greece. Geological Journal, issue 4, vol. 47, 372–387.
6. G. Panagopoulos and **D. Panagiotaras** (2011). Understanding the extent of geochemical and hydrochemical processes in coastal karst aquifers through ion chemistry and multivariate statistical analysis. Fresenius Environmental Bulletin (FEB), vol. 20, no 12a, 3270-3285.
7. S. Varnavas, **D. Panagiotaras**, G. Wolf, (2001). Biogeochemical processes at the sediment-water interface in a North Eastern Atlantic abyssal locality [Porcupine Abyssal Plain]. Progress in Oceanography, 50, 223-243.
8. Varnavas, S. P., **Panagiotaras, D.**, Megalovasilis, P., Dando, P., Alliani, S., Meloni, R. (2000). Compositional Characterization of Suspended Particulate Matter in Hellenic Volcanic Arc Hydrothermal Centres. Phys. Chem. Earth (B), vol. 25, no. 1, 9-18.

EU funded research projects

1. February 2014-present. *ESSEM COST Action ES1306: "Connecting European connectivity research"*.
2. February 2014-present. *ESSEM COST Action ES1302: "European Network on Ecological Functions of Trace Metals in Anaerobic Biotechnologies"*.
3. 2012 – September 2014. EFFICONS: Development of innovative nanotechnology-based sustainable solutions for energy efficient buildings. FP7 LEAD ERA Action. Department of Mechanical Engineering, Technological Educational Institute of Western Greece.
4. 2012 – October 2014. INDOOR ECOPAVING: Development and manufacturing of a new innovative nanotechnology-based decontaminant construction material for indoor building. FP7 LEAD ERA Action. Department of Mechanical Engineering, Technological Educational Institute of Western Greece.
5. 2001 - 2004. Biotechnologies for the Deep. European Union- EVK3-CT2000-00042-BIODEEP. Department of Geology, University of Patras, Greece.
6. 1998 - 2001. High resolution temporal and spatial study of the Benthic biology and geochemistry of a north-eastern Atlantic Abyssal Locality. European Union- MAS3-CT95-0018. Department of Geology, University of Patras, Greece.
7. 1995 - 1999. Hydrothermal Fluxes and Biological Production in the Aegean. European Union- MAS3-CT95-0021. Department of Geology, University of Patras, Greece.
8. 1994 - 1998. Geochemical Investigations of Hydrothermal Processes in the Hellenic Volcanic Island Arc. European Union-MAS2-CT94-0101. Department of Geology, University of Patras, Greece.
9. 1993 - 1995. Hydrodynamics and Biogeochemical Fluxes in the straits of the Cretan Arc. European Union- MAS2-CT93-0059. Department of Geology, University of Patras, Greece.



Geochemistry - Earth's System Processes
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This book brings together the knowledge from a variety of disciplines within the field of geochemistry. The evidence for this book consists of a number of scientists such as geologists, geologists, hydrologists, petrologists, engineers, microbiologists, geochemists and government agencies. The topics represented facilitate as establishing a starting point for new ideas and further contributions. An effective assessment of geological and environmental issues require the understanding of recent research in mineral, soil, water, rocks, sediments. The use of potential and professional methods value benefits on the structure of this book. The research presented was carried out by experts and is therefore highly recommended to scientists, teacher and post-graduate students who want to gain knowledge about the recent developments in geochemistry and benefit from an enhanced understanding of the formation of the earth's crust processes.

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