

Curriculum Vitae

Name: Dionisios Panagiotaras

Rank: Assistant Professor

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Web pages

http://www.researchgate.net/profile/Dionisios_Panagiotaras

<http://scholar.google.gr/citations?user=OEudVcAAAAAJ>

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Education

PhD in Geology: November 2008. Department of Geology, University of Patras, Greece. Dissertation: Geochemical processes in sediments collected from the North Atlantic Ocean: Porcupine Abyssal Plain, NE Atlantic.

BSc in Chemistry: April 1994. Department of Chemistry, University of Ioannina, Greece.

Work experience

2020 – present. Assistant Professor at the Department of Environment, Ionian University, Greece. Teaching and research activities.

2009 – 2019. Faculty member at the Department of Mechanical Engineering, Technological Educational Institute of Western Greece, teaching in undergraduate and postgraduate levels.

1995 – 2004. Research associate in EU funded projects and as teaching assistant at the Department of Geology, University of Patras, Greece.

Academic Activities

Undergraduate Lectureship; Modules (1995-2019):

1. Principles of Geochemistry
2. Applied Geochemistry
3. Inorganic Chemistry
4. Environmental Technology

Postgraduate Lectureship; Modules (2013-2015):

1. Sustainability of processes and products
2. Biomass energy systems

EU funded projects

1. May 2016-present. "Ocean Governance for Sustainability - Challenges, Options and the Role of Science". CA COST ACTION CA15217. *Role: Management Committee Member.*
2. 2014-2016. "European Network on Ecological Functions of Trace Metals in Anaerobic Biotechnologies". Earth System Science and Environmental

- Management - ESSEM COST Action ES1302. *Role: Management Committee Member.*
3. 2015-2017. "Connecting European connectivity research". Earth System Science and Environmental Management - ESSEM COST Action ES1306. *Role: Management Committee Member.*
 4. 2012 – 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. *Role: Member of the proposal writing team. Research Associate.*
 5. 2012 – 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. *Role: Member of the proposal writing team. Research Associate.*
 6. 2001 - 2004. Biotechnologies for the Deep. European Union- EVK3-CT2000-00042-BIODEEP. Department of Geology, University of Patras, Greece. *Role: Research Associate.*
 7. 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. *Role: Research Associate.*
 8. 1995 - 1999. Hydrothermal Fluxes and Biological Production in the Aegean. European Union- MAS3-CT95-0021. Department of Geology, University of Patras, Greece. *Role: Research Associate.*
 9. 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. *Role: Research Associate.*
 10. 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. *Role: Research Associate.*

Publications

Research monographs and chapters in collective volumes

1. **D. Panagiotaras**, D. Papoulis, E. Stathatos (2015). Geochemistry of Arsenic and Toxic Response. Chapter 4, pages 79-109, in *Arsenic Toxicity: Prevention and Treatment*. Editor: Narayan Chakrabarty, CRC press, Taylor & Francis, publishers, 524 pp. ISBN: 9781482241969.
2. E. Stathatos, D.Papoulis, **D. Panagiotaras** (2014). Stabilized TiO₂ nanoparticles on clay minerals for air and water treatment. Chapter 18, pages 313-325, in *Advanced Oxidation Technologies – Sustainable solutions for environmental treatments*. Editors: M. Litter, R. Candal & J.M. Meichtry, CRC publications, 350. pp. ISBN: 9781138001275.
3. **D. Panagiotaras**, G. Panagopoulos, D. Papoulis, P. Avramidis (2012). Arsenic Geochemistry in Groundwater System, pages 27-38, in *Geochemistry-Earth's System Processes*. Editor: D. Panagiotaras, INTECH Publishers, 500 pp. ISBN: 978-953-51-0586-2.

4. D. Papoulis, **D. Panagiotaras**, G. Panagopoulos (2012). Arsenic: Environmental Impact Reduction Using Natural and Modified Adsorbents. Chapter 15, pages 289-304 in Arsenic: Sources, Environmental Impact, Toxicity and Human Health - A Medical Geology Perspective. Editor: Andrea Masotti, NOVA Publishers, 386 pp. 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, 471-478, in Advances in the Research of Aquatic Environment. Editors: Lambrakis, Nicolaos, Stournaras, George, Katsanou, Konstantina, Vol. 2. Springer-Verlag Berlin Heidelberg Publisher, 512 pp. ISBN: 978-3-642-24075-1.
6. Book: Geochemistry-Earth's System Processes (2012). Editor, **Dionisios Panagiotaras**, INTECH Publishers, 500 pp. ISBN: 978-953-51-0586-2.
7. **D. Panagiotaras** (2008). Geochemical processes in sediments collected from the North Atlantic Ocean: Porcupine Abyssal Plain, NE Atlantic. Department of Geology, University of Patras, Greece. Dissertation, 163pp.

Peer reviewed International Science Citation Index Journals

8. Artemis Tsagdi, Denisa Druvari, **Dionisios Panagiotaras**, Pavlos Avramidis, Vlasoula Bekiari and Joannis K. Kallitsis (2020). Polymeric coatings based on water-soluble trimethylammonium copolymers for antifouling applications. *Molecules*, 25, 1678.
9. Pavlos Avramidis, Pantelis Barouchas, Thomas Dünwald, Ingmar Unkel, **Dionisios Panagiotaras** (2019). The influence of olive orchards copper-based fungicide use, in soils and sediments – The case of Aetoliko lagoon Western Greece. *Geosciences*, 9, 267.
10. D. Papoulis, K. Somalakidi, N. Todorova, C. Trapalis, **D. Panagiotaras**, D. Sygkridou, E. Stathatos, E. Gianni, A. Mavrikos, S. Komarneni (2019). Sepiolite/TiO₂ and metal ion modified Sepiolite/TiO₂ nanocomposites: Synthesis, Characterization and Photocatalytic activity in abatement of NOx gases. *Applied Clay Science*, 179, 105156.
11. **Panagiotaras D.**, Bekiari V., Stathatos E., Papoulis D., Panagopoulos G., Kalarakis A.N., Iliopoulos I., Kourkouta E. and Mavrokota P. (2018). Use of Halloysite-TiO₂ Nanocomposites for the Decomposition of Tebuconazole Fungicide in Water. *Desalination and Water Treatment*, vol. 127, pages 132-139.
12. D. Papoulis, **D. Panagiotaras**, P. Tsigrou, K.C. Christoforidis, C. Petit, A. Apostolopoulou, E. Stathatos, S. Komarneni, I. Koukouvelas (2018). Halloysite and Sepiolite -TiO₂ nanocomposites: Synthesis Characterization and Photocatalytic activity in three aquatic wastes. *Materials Science in Semiconductor Processing*, vol. 85, pages 1-8.

13. Katsaros, D., **Panagiotaras D.**, Kontopoulos N., Avramidis P. (2017). Sediments characteristics and heavy metals distribution of a very shallow protected coastal lagoon, Prokopos lagoon, Mediterranean Sea western Greece. *Fresenius Environmental Bulletin*, vol. 26, no. 10, 6093-6103.
14. Kottou S., Nikolopoulos D., Yannakopoulos P., Vogianis E., Petraki E., **Panagiotaras D.**, Koulougliotis D. (2015). Preliminary background indoor EMF measurements in Greece. *Physica Medica*, vol. 31, 808-816.
15. Avramidis, P., Iliopoulos, G., Kontopoulos, N., **Panagiotaras, D.**, Barouchas P., Nikolaou K., Papadopoulou, P., (2015). Depositional environments, sediment characteristics, palaeoecological analysis and environmental assessment of an internationally protected shallow Mediterranean lagoon, Gialova Lagoon – Navarino Bay, Greece. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh*, vol. 105, issue 03: 189-206, doi:10.1017/S1755691015000031
16. Rapsomanikis, A., Papoulis, D., **Panagiotaras, D.**, Kaplani, E. Stathatos, E., (2014) Nanocrystalline TiO₂ and halloysite clay mineral composite films prepared by sol-gel method: Synergistic effect and the case of silver modification to the photocatalytic degradation of Basic Blue 41 azo dye in water. *Global NEST Journal* 16, 485-498.
17. 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.
18. D. Papoulis, S. Komarneni, **D. Panagiotaras**, E. Stathatos, K. C. Christoforidis, M. Fernández-García, H. Li, Yin Shu, T. Sato, H. Katsuki (2014). Three-phase nanocomposites of two nanoclays and TiO₂: Synthesis, characterization and photocatalytic activities. *Applied Catalysis B: Environmental*, vol. 147, 526-533.
19. 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.
20. E. Petraki, D. Nikolopoulos, A. Fotopoulos, **D. Panagiotaras**, G. Koulouras, A. Zisos, C. Nomicos, A. Louizi, J. Stonham, (2013). Self-organised critical features in soil radon and MHz electromagnetic disturbances: Results from environmental monitoring in Greece. *Applied Radiation and Isotopes*, vol. 72, 39–53.
21. E. Petraki, D. Nikolopoulos, A. Fotopoulos, **D. Panagiotaras**, C. Nomicos, P. Yannakopoulos, S. Kottou, A. Zisos, A. Louizi, J. Stonham (2013). Long-range memory patterns in variations of environmental radon in soil. *Analytical Methods*, vol. 5, 4010-4020.

22. D. Papoulis, S. Komarneni, **D. Panagiotaras**, E. Stathatos, D. Toli, K. C. Christoforidis, M. Fernández-García, H. Li, Shu Yin, T. Sato, H. Katsuki (2013). Halloysite–TiO₂ nanocomposites: synthesis, characterization and photocatalytic activity. *Applied Catalysis B: Environmental*, vol. 132-133, 416-422.
23. 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.
24. Papoulis D., Komarneni S., **Panagiotaras D.**, Nikolopoulou A., Huihui L., Yin S., Sato T., Katsuki H. (2013) Palygorskite–TiO₂ nanocomposites: Part 1. Synthesis and Characterization. *Applied Clay Science*, vol. 83-84, 191-197.
25. Papoulis D., Komarneni S., **Panagiotaras D.**, Nikolopoulou A., Christoforidis, K.C., Fernandez-Garcia, M., Hui Li, Y. Shu, S. Tsugio (2013). Palygorskite–TiO₂ nanocomposites: Part 2. Photocatalytic activities in decomposing air and organic pollutants. *Applied Clay Science*, vol. 83-84, 198-202.
26. E. Stathatos, D. Papoulis, C.A. Aggelopoulos, **D. Panagiotaras**, A. Nikolopoulou (2012). TiO₂/palygorskite composite nanocrystalline films prepared by surfactant templating route: Synergistic effect to the photocatalytic degradation of an azo-dye in water. *Journal of Hazardous Materials*, vol. 211–212, 68-76.
27. **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.
28. Nikolopoulos D., Petraki E., Marousaki A., Potirakis S., Koulouras G., Nomicos C., **Panagiotaras D.**, Stonham J., Louizi A. (2012). Environmental monitoring of radon in soil during a very seismically active period occurred in South West Greece. *Journal of Environmental Monitoring*, vol. 14, 564-578.
29. 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.
30. I. A. Vasiliadou, D. Papoulis, C.V. Chrysikopoulos, **D. Panagiotaras**, E. Karakosta, M. Fardis, and G. Papavassiliou (2011). Attachment of *Pseudomonas putida* on different structured kaolinite minerals: A combined ATR-FTIR and ¹H NMR study. *Colloids and Surfaces B: Biointerfaces*, vol. 84, 354–359.
31. Papoulis D., Komarneni S., Nikolopoulou A., Tsolis-Katagas P., **Panagiotaras D.**, Kacandes H.G., Peilin Zhang, Shu Yin and Tsugio Sato

- (2010). Palygorskite- and Halloysite-TiO₂ nanocomposites: Synthesis and photocatalytic activity. *Applied Clay Science* vol. 50 (1), 118–124.
32. E. Karakosta, G. Diamantopoulos, M. Katsiotis, M. Fardis, G. Papavassiliou, M. Protopapas, **D. Panagiotaras** (2010). In Situ Monitoring of Cement Gel Growth Dynamics. The Use of a Miniaturized Permanent Halbach Magnet for Precise ¹H NMR Studies. *Industrial & Engineering Chemistry Research*, vol. 49 (2), 613-622.
33. A. Nikolopoulou, D. Papoulis, S. Komarneni, P. Tsolis-Katagas, **D. Panagiotaras**, G.H. Kacandes, P. Zhang, S. Yin and T. Sato (2009). Solvothermal Preparation of TiO₂ / Saponite Nanocomposites and Photocatalytic Activity. *Applied Clay Science*, vol. 46, 363–368.
34. 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.
35. 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.

Peer reviewed International Journals

36. Bekiari, V., Panagopoulos, G., Papoulis, D., **Panagiotaras, D.**, (2017). Use of Halloysite Nanotubes to reduce ammonium concentration in water and wastewaters. *Materials Research Innovations*, vol. 21, iss.5, 313-319.
37. D. Nikolopoulos, E. Petraki, D. Cantzos, P. H. Yannakopoulos, **D. Panagiotaras**, C. Nomicos (2016). Fractal analysis of pre-seismic electromagnetic and radon precursors: A systematic approach. *Journal of Earth Science & Climatic Change* 7: 376.
38. **Panagiotaras D.**, Koulougliotis D., Nikolopoulos D., Kalarakis A.N., Yiannopoulos A.Ch., Pikios K. (2015). Biogeochemical Cycling of Nutrients and Thermodynamic Aspects. *Journal of Thermodynamics & Catalysis*, vol. 6: 144, 1-7.
39. **D. Panagiotaras**, D. Nikolopoulos (2015). Arsenic Occurrence and Fate in the Environment; A Geochemical Perspective. *Journal of Earth Science & Climatic Change*, vol. 6, issue 4:269, 1-9.
40. N. Diamantopoulos, **D. Panagiotaras**, D. Nikolopoulos (2015). Comprehensive Review on the Biodiesel Production using Solid Acid Heterogeneous Catalysts. *Journal of Thermodynamics & Catalysis*, vol. 6, issue 2:143, 1-8.
41. D. Nikolopoulos, D. Koulougliotis, E. Vogianis, E. Petraki, **D. Panagiotaras**, P. Yannakopoulos, S. Kottou (2015). Pilot Electromagnetic

- Field Measurements in Certain Areas in Greece. *Journal of Physical Chemistry & Biophysics*, vol. 5, issue 2:176, 1-11.
42. Ermioni Petraki, Dimitrios Nikolopoulos, **Dionisios Panagiotaras**, Demetrios Cantzos, Panayiotis Yannakopoulos, Constantinos Nomicos, John Stonham, (2015). Radon-222: A potential short-term earthquake precursor. *Journal of Earth Science & Climatic Change*, 6: 282, 1-7.
 43. D. Papoulis, E. Kordouli, P. Lampropoulou, A. Rapsomanakis, C. Kordulis, **D. Panagiotaras**, K. Theophylaktou, E. Stathatos, S. Komarneni (2014). Synthesis, Characterization and Photocatalytic Activities of Fly Ash-TiO₂ Nanocomposites for the Mineralization of Azo Dyes in Water. *Journal of Surfaces and Interfaces of Materials*, vol. 2, 261-266.
 44. **D. Panagiotaras**, D. Nikolopoulos, E. Petraki, S. Kottou, D. Koulougliotis, P. Yannakopoulos, S. Kaplanis (2014). Comprehensive experience for Indoor Air Quality Assessment. A review on the determination of Volatile Organic Compounds (VOCs). *Journal of Physical Chemistry & Biophysics*. Vol. 4, issue 5: 159, 1-12.
 45. **D. Panagiotaras**, E. Stathatos, D. Papoulis (2014). Silver Modified TiO₂/Halloysite Thin Films for Decomposition of Target Pollutants. *International Journal of Chemical, Nuclear, Metallurgical and Materials Engineering* Vol. 8 No:9, 756-762.
 46. **D. Panagiotaras**, D. Papoulis, E. Stathatos (2014). TiO₂/clay minerals (palygorskite/halloysite) nanocomposite coatings for water disinfection. *International Journal of Environmental, Ecological, Geological and Mining Engineering*, Vol. 8, 175-182.

Peer reviewed International Conferences Proceedings

47. Giannakis I., **Panagiotaras D.**, Papoulis D., Stathatos E., Bekiari V., Kalarakis A. and Panagopoulos G. (2019). Photocatalytic Degradation of Tebuconazole Fungicide using Palygorskite-TiO₂ nanomaterials. 16th International Conference on Environmental Science and Technology (CEST2019). 4-7 September 2019, Rhodes, Greece.
48. Dimitris Bassukas, Alexandros Emmanouilidis, **Dionisios Panagiotaras** and Pavlos Avramidis (2019). Sedimentological and geochemical evaluation of Vouliagmeni lake surface sediments, Perachora Peninsula, Corinth, Greece. 19th International Multidisciplinary Scientific GeoConference (SGEM). 28 June – 7 July 2019, Albena, Bulgaria.
49. Dimitris Papoulis, Konstantina Somalakidi, Eleni Gianni, **Dionisios Panagiotaras**, and Dimitra Sygkridou (2019). Sepiolite-TiO₂ nanocomposites: synthesis, characterization photocatalytic activity. 19th International Multidisciplinary Scientific GeoConference (SGEM). 28 June – 7 July 2019, Albena, Bulgaria.

50. Dimitris Bassukas, Alexandros Emmanouilidis, **Dionisios Panagiotaras** and Pavlos Avramidis (2019). Spatial sedimentological, geochemical and mineralogical characterization of Vouliagmeni coastal lake, Greece. 15th International Congress of the Geological Society of Greece (GSG) – Exploring and Protecting our Living Planet Earth. 22-24 May 2019, Athens Greece.
51. Mavrokota P., Bekiari V., Stathatos E., Papoulis D., Panagopoulos G., Kalarakis A.N., Iliopoulos I., Kourkouta E. and **Panagiotaras D.**, (2017). Use of Halloysite-TiO₂ Nanocomposites for the Decomposition of Tebuconazole Fungicide in Water. 15th International Conference on Environmental Science and Technology Rhodes, Greece, 31 August to 2 September, pages 4.
52. Iliopoulos I., Kourkouta E., Bekiari V., Stathatos E., Panagopoulos G. and **Panagiotaras D.**, (2017). Olive Mill Wastewaters Total Organic Carbon Degradation using TiO₂ Nanoparticles. 15th International Conference on Environmental Science and Technology Rhodes, Greece, 31 August to 2 September, pages 5.
53. Katsaros D., Iliopoulos G., **Panagiotaras D.**, Kontopoulos N., Avramidis P., (2015). Geochemical and Sedimentological Assessment of the Prokopos Coastal Lagoon Sediments, Mediterranean Sea, Western Greece. 15th International Multidisciplinary Scientific GeoConference (SGEM), vol. II (Ecology and Environmental Protection Section) 249-256 pp. 16 – 25 June 2015, Albena, Bulgaria.
54. G. Panagopoulos, D. Papoulis, M. Zamparas, V. Bekiari, **D. Panagiotaras** (2015). Use of clay minerals to reduce ammonium concentration in groundwater. 9th EWRA World Congress, Istanbul, Turkey, 10-13 June 2015.
55. **D. Panagiotaras**, E. Kaplani, E. Stathatos, D. Papoulis (2014). Self-cleaning properties of TiO₂/palygorskite and TiO₂/halloysite nanocomposite coatings. AIP Conference Proceedings vol. 1618, issue 1, 362-365 pp. 10th International Conference of Computational Methods in Sciences and Engineering-ICCMSE, 04-07 April, Metropolitan Hotel, Athens, Greece.
56. E. Kaplani, S. Kaplanis, **D. Panagiotaras**, E. Stathatos (2014). Optical Properties of ITO nanocoatings for Photovoltaic and Energy Building Applications. AIP Conference Proceedings vol. 1618, issue 1, 348-350 pp. 10th International Conference of Computational Methods in Sciences and Engineering-ICCMSE, 04-07 April, Metropolitan Hotel, Athens, Greece.
57. **D. Panagiotaras**, D. Nikolopoulos, D. Koulougliotis, E. Petraki, I. Zisos, E. Vogiannis, S. Kaplanis, A. Yiannopoulos, A. Bakalis, A. Zisos (2013). Indoor Air Quality Assessment: Review on the topic of VOCs. ERA-8th International Conference for International Synergy in Energy, Environment, Tourism and contribution of Information Technology in

- Science, Economy, Society and Education. pp. 91-101. ISSN-1791-1133. 23-25 September, Technological Education Institute of Piraeus, Greece.
58. D. Papoulis, S. Komarneni, D. Toli, **D. Panagiotaras**, S. Bakalis (2013). Synthesis and Characterization of Three New Halloysite - TiO₂ Nanocomposites. 13th Congress of the Geological Society of Greece (G.S.G.), vol. XLVII, no.1, pages 407-415. Chania, 5-8 September, Crete, Greece.
 59. **D. Panagiotaras**, (2012). Nanotechnology-based decontaminant materials: A Review. 2nd International Conference, Advances in Engineering and Management, ADEM 2012. Drobeta Turnu-Severin, 13-14 December, Romania. ISBN 978-606-510-899-8. 8 pages.
 60. P. Avramidis, **D. Panagiotaras**, P. Lampropoulou, D. Papoulis, N. Kontopoulos (2012). Sedimentological and Geochemical characteristics of Holocene lagoonal deposits, Amvrakikos gulf, western Greece. 12th International Multidisciplinary Scientific GeoConference and EXPO (SGEM), Modern Management of Mine Producing, Geology and Environmental Protection, vol. 3, 979-986.
 61. D. Papoulis, S. Komarneni, **D. Panagiotaras**, Katsuki, H (2012). Halloysite - TiO₂ nanocomposites. Synthesis and characterization. 12th International Multidisciplinary Scientific GeoConference and EXPO (SGEM), 17-23 June, Albena, Bulgaria. Modern Management of Mine Producing, Geology and Environmental Protection, vol. 3, 459-466.
 62. G. Panagopoulos, P. Giannouloupoulos, **D. Panagiotaras** (2011). Groundwater hydrochemistry of the volcanic aquifers of Limnos Island, Greece. 9th International Hydrogeological Congress, volume B, 471-486.
 63. Avramidis P., **Panagiotaras D.**, Papoulis D., Kontopoulos N., (2010). Sedimentological and Geochemical characterization of Holocene Sediments, from Alikes Lagoon, Zakynthos Island, Western Greece. Bulletin of the Geological Society of Greece. 12th International Congress, 19-22 May, University of Patras, Greece. XLIII No2, 558-567.
 64. A. Nikolopoulou, D. Papoulis, P. Tsolis-Katagas, **D. Panagiotaras**, G.H Kacandes (2009). Solvothermal Preparation and Characterization of TiO₂ Pillared Saponite. 9th International Multidisciplinary Scientific Geoconference (SGEM 2009). 14-19 June, Albena Bulgaria. Conference Proceeding, vol. II, pages 175-182.
 65. Varnavas, S.P., **Panagiotaras, D.**, Megalovasilis, P.S. (1998). Chemical Characteristics of a Submarine Hydrothermal System offshore Kos island, on the Hellenic Volcanic Arc. Internationale Pour L'Exploration Scientifique de la mer Mediterranee, 35th CIESM Congress, Dubrovnik (Croatie), vol. 35(1), pp. 104-105.
 66. Robinson, C., Ziebis W., Muller, S., Eichstaedt, K., Dando, P., Linke, P., Varnavas, S., Megalovasilis, P. and **Panagiotaras, D.** (1997). In Situ Investigations of Shallow Water Hydrothermal Vent Systems, Palaeochori

bay, Milos, Aegean Sea. 4th Underwater Science Symposium, SUT. International Symposium held in Newcastle U.K. 19/20 November, pp. 85-100.

67. Varnavas, S.P., Megalovasilis, P.S., and **Panagiotaras, D.** (1997). Spatial and Time compositional variability of Suspended Particulate Matter in Patraikos Bay, Greece. 5th Conference on Environmental Science and Technology. (Lesvos Greece). Vol.B. pp. 309-317.

International Conferences Abstracts

68. Giannakis I., **Panagiotaras D.**, Papoulis D., Stathatos E., Bekiari V., Kalarakis A. and Panagopoulos G. (2019). Photocatalytic Degradation of Tebuconazole Fungicide using Palygorskite-TiO₂ nanomaterials. 16th International Conference on Environmental Science and Technology (CEST2019). 4-7 September 2019, Rhodes, Greece.
69. Dimitris Bassukas, Alexandros Emmanouilidis, **Dionisios Panagiotaras** and Pavlos Avramidis (2019). Sedimentological and geochemical evaluation of Vouliagmeni lake surface sediments, Perachora Peninsula, Corinth, Greece. 19th International Multidisciplinary Scientific GeoConference (SGEM). 28 June – 7 July 2019, Albena, Bulgaria.
70. Dimitris Papoulis, Konstantina Somalakidi, Eleni Gianni, **Dionisios Panagiotaras**, and Dimitra Sygkridou (2019). Sepiolite-TiO₂ nanocomposites: synthesis, characterization photocatalytic activity. 19th International Multidisciplinary Scientific GeoConference (SGEM). 28 June – 7 July 2019, Albena, Bulgaria.
71. Dimitris Bassukas, Alexandros Emmanouilidis, **Dionisios Panagiotaras** and Pavlos Avramidis (2019). Spatial sedimentological, geochemical and mineralogical characterization of Vouliagmeni coastal lake, Greece. 15th International Congress of the Geological Society of Greece (GSG) – Exploring and Protecting our Living Planet Earth. 22-24 May 2019, Athens Greece.
72. Christina Lazaratou, Dimitrios Papoulis, **Dionisios Panagiotaras**, Georgios Panagopoulos (2017). Use of palygorskite fibres and halloysite nanotubes to reduce iron concentration in water and waste waters. 16th International Clay Conference - Clays from the Oceans to Space. Granada, Spain, 17-21 July.
73. Panagiota Tsigrou, Dimitrios Papoulis, **Dionisios Panagiotaras**, Konstantinos Christoforidis, Elias Stathatos (2017). Sepiolite- and halloysite-TiO₂ nanocomposites: synthesis, characterization and photocatalytic activities. 16th International Clay Conference - Clays from the Oceans to Space. Granada, Spain, 17-21 July.

74. D. Papoulis, E.Koutra, M. Kornaros, A. Rapsomanikis, **D. Panagiotaras**, E. Stathatos (2015). Antimicrobial activity of Ag-Treated clay-based nanocomposites. EuroClay International Scientific Conference, 5th - 10th July, Edinburgh, Scotland, U.K.
75. D. Papoulis, A.-Eleni (Eleana) Kordouli, P. Lampropoulou, A. Rapsomanikis, C. Kordulis, **D. Panagiotaras**, Elias Stathatos, Sridhar Komarneni (2014). Synthesis, characterization and photocatalytic activities of fly ash-TiO₂ nanocomposites in mineralization of azo dyes in water. International Conference on Atmospheric Dust (DUST 2014). Castellanaeta Marina, (TA), 1-6 June, Italy, page 320.
76. D. Papoulis, S. Komarneni, **D. Panagiotaras** (2014). Fibrous and tubular clay-based nanocomposites for photocatalysis: possibilities and limitations. International Conference on Atmospheric Dust (DUST 2014). Castellanaeta Marina, (TA), 1-6 June, Italy, page, 319.
77. D. Papoulis, S. Komarneni, **D. Panagiotaras**, E. Stathatos, D. Toli, Huihui Li, Shu Yin, Tsugio Sato, Hiroaki Katsuki (2013). Synthesis, characterization and photocatalytic activities of Halloysite-TiO₂ nanocomposites. XV International Clay Conference. 07-11 July, Rio de Janeiro – Brazil.
78. P. Avramidis, **D. Panagiotaras**, D. Papoulis & N. Kontopoulos (2011). Geochemical processes and sedimentological characteristics of Holocene lagoon deposits, Alikes Lagoon Zakynthos island, Western Greece. Abstract book p. 143. 28th International Association of Sedimentologists (IAS) Meeting of Sedimentology. 5th – 8th July, Zaragoza, Spain.
79. A. Nikolopoulou, D. Papoulis, S. Komarneni, P. Tsolis-Katagas, **D. Panagiotaras**, G.H Kacandes, P. Zhang, S. Yin and T. Sato, H. Katsuki (2011). Palygorskite-TiO₂ nanocomposites: Synthesis and photocatalytic activity in decomposing NO_x gas. European Clay Conference, 26 June-1 July, Antalya, Turkey.
80. A. Vasiliadou, D. Papoulis, C.V. Chrysikopoulos, **D. Panagiotaras**, E. Karakosta, M. Fardis and G. Papavassiliou, (2011). A combined ATR-FTIR and NMR study of Pseudomonas putida sorption onto different kaolinite minerals. EGU, European Geoscience Union General Assembly 2011 Vienna, Austria, HS8.1.7 EGU2011-1038-2, 03 – 08 April, 2011.
81. Papoulis, D., Komarneni, S. and **Panagiotaras, D.**, (2010). Progressive Stages of hydrothermal alteration of plagioclase to halloysite from Limnos island, Greece. Trilateral Meeting on Clays 06-11/06/2010, Spain, p.151.
82. Papoulis, D., Komarneni, S Nikolopoulou A., Tsolis-Katagas P., **Panagiotaras D.**, Kacandes H.G., Zhang, P., Yin, S., Sato, T. and Katsuki, H. (2010). Halloysite-TiO₂ and Palygorskite-TiO₂ nanocomposites: synthesis and photocatalytic activity in decomposing air pollutants. Acta Mineralogica-Petrographica, abstract series (special selection), vol.6 p. 89. 5th Mid-European Clay Conference. 25-29 August, Budapest Hungary.

83. I. A. Vasiliadou, D. Papoulis, C. Chryssikopoulos, **D. Panagiotaras**, E. Karakosta, M. Fardis, G. Papavassiliou (2010). Sorption of *Pseudomonas putida* onto differently structured kaolinite minerals. (Abstract); American Geophysical Union (AGU) Meetings. 13–17 December, San Francisco, California, USA. H51F-0957; AGU2010-950835.
84. Varnavas S.P., C. Corselli, **D. Panagiotaras**, E. Malinverno, G.J. de Lange, J. Thomson, A. Tselepidis (2002). Evolution of environmental conditions in eastern Mediterranean anoxic basins. Second International Conference on "Oceanography of the Eastern Mediterranean and Black Sea - October 14-18 2002, Ankara. Turkey.
85. Varnavas, S. P., Halbach, P., Halbach, M., **Panagiotaras, D.**, Rahders, E., and Hubner, A. (1999). Characterization of Hydrothermal Fields and Hydrothermal Evolution in the Hellenic Volcanic Arc. International Conference. Oceanography of the Eastern Mediterranean and the Black Sea. 23-26 February, Athens Greece, p. 315.
86. Varnavas, S.P., Halbach, P., Dando, P., Megalovasilis, P.S., **Panagiotaras, D.**, and Rahders, E. (1997). Geochemical hydrothermal processes in relation to tectonics in the hellenic volcanic arc, forearc basins and trenches. International Conference. Progress in Oceanography of the Mediterranean Sea, European Commission, Mast Programme. pp. 267-269. Rome, 17-19 November.
87. Varnavas, S.P., Dando, P., Megalovasilis, P.S., Robinson, C., **Panagiotaras, D.** and Hooper, L. (1997b). The influence of hydrothermal fluxes on Biogeochemical processes in Paleochori Bay, Milos hydrothermal field, on the Hellenic Volcanic Arc. News Letter, European Geophysical Society General Assembly, Vienna 20-25 March. Number 62, Annales Geophysicae.

National Conferences Abstracts

88. D. Papoulis, **D. Panagiotaras**, E. Stathatos (2013). Synthesis, Characterization and Photocatalytic Properties of porous Palygorskite-TiO₂ Nanocomposites. 4rd Conference on Materials Development for Environmental Uses, 28-30 June, University of Patras, Patras, Greece.
89. D. Papoulis, S. Komarneni, **D. Panagiotaras**, E. Stathatos, Hiroaki Katsuki (2012). Synthesis and Characterization of Halloysite-TiO₂ Nanocomposites. 3rd Conference on Materials Development for Environmental Uses, 22-23 June, University of Patras, Patras, Greece.
90. E. Stathatos, D. Papoulis, C. A. Aggelopoulos, **D. Panagiotaras**, A. Nikolopoulou (2011). Highly porous TiO₂/Palygorskite nanocrystalline films prepared by surfactant templating route: Synergistic effect to the photocatalytic degradation of an azo dye in water. 2nd Conference on

Materials Development for Environmental Uses, 7-8 July, University of Patras, Patras, Greece.

91. E. Karakosta, G. Diamantopoulos, M. S. Katsiotis, M. Fardis, **D. Panagiotaras** and G. Papavassiliou (2009). In Situ Monitoring of Cement Gel Growth Dynamics. The Use of a Miniaturized Permanent Halbach Magnet for Precise ¹H NMR Studies. 4th Greek Conference in Porous Materials. October 22-23, University of Patras Greece

Invited presentations to international conferences and international advanced schools

1. 2017. Environmental Applications of nanoscale geo-materials. MSc course in *Sustainable fisheries, aquaculture*. Department of Fisheries and Aquaculture Technology, TEI of Western Greece. May 27, 2017, Messolonghi Greece.
2. 2016. The Fate of Pollutants in Soils and Sediments. June 2, 2016. Rudjer Bošković Institute, Bijenička, Zagreb Croatia. Division for Marine and Environmental Research.
3. 2015. Environmental Applications of clays and clay minerals. Lecture. August 10, University of Brunei Darussalam, Department of Physical and Geological Sciences.
4. 2014. Assessing solid digestate properties for soil fertilization: The fate of pollutants in soils and sediments. Lecture. Summer School, University of Cassino, 3-4 July, Cassino, Italy.
5. 2012. Keynote lecture: Nanotechnology-based decontaminant materials. 2nd International Conference, Advances in Engineering and Management, ADEM 2012. 13-14 December 2012, University of Craiova, Drobeta Turnu Severin, Romania.
6. 2012. Environmental applications of clay-based nanocomposites. Winter School "Renewable Energy Systems and Green Nanotechnologies for a Clean Environment". 15 December 2012. University of Craiova, Dept. of Engineering and Management of Technological Systems, Drobeta Turnu Severin, Romania.

Participation in research expeditions as a scientific member

1. 1996. Research Vessel Meteor, Cruise 36 Leg 6. Project: High resolution temporal and spatial study of the Benthic biology and geochemistry of a N-E Atlantic Abyssal Locality. EU-MAS3-CT95-0018. North Atlantic Ocean.
2. 2001. Research Vessel Meteor, Cruise 42 Leg 2. Project: Biotechnologies for the Deep. European Union- EVK3-CT2000-00042-BIODEEP. East Mediterranean Sea.

Committees and conference organization

1. Convener: Interaction between clays and organic molecules and organisms; Session: *OM-02 - Drug delivery systems based on layered materials*. 16th International Clay Conference (ICC) – Clays, from the Ocean to Space, 17-21 July 2017, Granada Spain.

2. Member of the Management Committee of the *CA COST ACTION CA15217: "Ocean Governance for Sustainability - Challenges, Options and the Role of Science"*. May 2016-present.
3. Member of the Management Committee of the *Earth System Science and Environmental Management - ESSEM COST Action ES1302: "European Network on Ecological Functions of Trace Metals in Anaerobic Biotechnologies"*. February 2014-March 2016.
4. Member of the Management Committee of the *Earth System Science and Environmental Management - ESSEM COST Action ES1306: "Connecting European connectivity research"*. February 2014-March 2017.
5. Member of the Scientific Committee: 2nd International Conference, Advances in Engineering and Management, ADEM 2012. 13-14 December 2012, University of Craiova, Drobeta Turnu Severin, Romania.
6. Member of the Editorial Board of the International Journal of Water Sciences. INTECH publishers. June 2012-present.

Leadership in industrial innovation

Research Associate in the projects:

1. EFFICONS: Development of innovative nanotechnology-based sustainable solutions for energy efficient buildings. FP7 LEAD ERA Action. Industrial partners: ACCIONA Infrastructures S.A – Madrid, Spain; Asociados Arquitectos SL – Navarre, Spain; TRIAINA S.A – Patras, Greece.
2. INDOOR ECOPAVING: Development and manufacturing of a new innovative nanotechnology-based decontaminant construction material for indoor building. FP7 LEAD ERA Action. Industrial partners: Pavimentos de Tudela, S.L – Navarre, Spain; ERGOGENESIS A.T.E – Pyrgos, Greece.

Reviewer of Scientific Journals

1. Chemie der Erde – Geochemistry, (Elsevier).
2. Chemical Geology (Elsevier).
3. GeoResJ (Elsevier).
4. Science of the Total Environment (Elsevier).
5. Palaeogeography, Palaeoclimatology, Palaeoecology (Elsevier).
6. Heliyon (Elsevier).
7. Catalysis Today (Elsevier).
8. Chinese Chemical Letters (Elsevier).
9. Physica B: Condensed Matter (Elsevier).
10. Arabian Journal of Chemistry (Elsevier).
11. Journal of Industrial and Engineering Chemistry (Elsevier).
12. Surface and Coatings Technology (Elsevier).
13. Sustainable Chemistry & Engineering (American Chemical Society - ACS).
14. Environmental Monitoring and Assessment (Springer).
15. International Journal of Environmental Analytical Chemistry (Taylor and Francis).
16. Sustainability (MDPI).
17. Geosciences (MDPI).

18. Journal of Advanced Oxidation Technologies (Science & Technology Network, Inc.).
19. International Journal of Water Sciences (INTECH publishers).
20. International Journal of Photoenergy (Hindawi Publishing Corporation).
21. Chemical Industry and Chemical Engineering Quarterly (Association of Chemical Engineers Belgrade, Serbia).
22. Bulgarian Chemical Communications (V. Beschko).

Project Evaluator

1. 2016 - Σήμερα: European Cooperation in Science and Technology Association. External Expert for the evaluation of proposals.
2. 2015 - Σήμερα: Project evaluator for the National Center of Science and Technology Evaluation, Ministry of Education and Science, Astana, Republic of Kazakhstan.