

Table of selected bibliographic data

<i>Name</i>	Dimitrios P. Papoulis
	Assistant Professor of Natural Resources emphasizing in Clays and Clay Minerals. 2011- Today
<i>Degree</i>	1997. Geologist, University of Patras, Greece.
<i>Phd</i>	2003. (Geology Department, University of Patras, Greece).
<i>Knowledge and applications in New Technologies</i>	Qualitative and semi-quantitative RD, SEM, (equipped with EDX/WDX), DTA-TG, MR (2D, 3D), FT-Raman & Raman, FTIR
Participation in research projects	Scientific supervisor of “Karatheodori 2007-2010”. «Interactions of inorganic and organic pollutants with clay liners in Sanitary Landfills».
	PARTICIPATION in the projects : INTEREG II GRECIA – ITALIA. “Karatheodoris 2001” : Geoarcheological investigation of the raw materials and their ceramic products.
<i>Reviewer of Journals (SCI)</i>	<ol style="list-style-type: none"> 1. Applied Clay Science, 2. Clay Minerals, 3. Clays and Clay Minerals, 4. Tectonophysics, 5. American Mineralogist, 6. Chinese Journal of Chemistry 7. Journal of Advanced Oxidation Technologies
Reviewer in International Conference	<ol style="list-style-type: none"> 1. XIV International Clay Conference, Italy 2009. 2. 12th International Congress of Geological Society of Greece, Patra 2010 3. GEOMED 2011 4TH International Conference on MEDICAL GEOLOGY
Chairman/Convener in Sections of International Conferences	<ol style="list-style-type: none"> 1. 8th International Scientific Conference SGEM (Modern Management of Mine Producing, Geology and Environmental Protection), Albena Bulgary, 16/06/2008-20/06/2008. Topic: “Mining and Geology” 2. XIV International Clay Conference, Italy 2009, Castellaneta Marina, 14/06/2009-20/06/2009. Topic: “Clay Minerals and Fluid Flow Through Faults”, Also Convener 3. GEOMED 2011 4TH International Conference on MEDICAL GEOLOGY, Bari Italy 20/09/2011-25/09/2011. Topic: “Biopolymer – Clay Nanocomposites for Medicinal Uses”, Also Convener.
Scientific Interests	Clay-based nanocomposites: Synthesis, characterization and photocatalytic activities, Natural Resources, Clays and Clay Minerals, Sanitary Landfills, clay minerals as catalysts.
<i>Main Research Activities</i>	Clay Minerals–TiO ₂ nanocomposites: Synthesis and photocatalytic activity in decomposing air and organic

	<p>pollutants</p> <p>Interactions of Clay minerals with organic and inorganic pollutants in Sanitary Landfills</p> <p>Bacteria sorption on clay minerals</p> <p>Clay minerals of Limnos island</p>
<i>Teaching</i>	<p>7 Years in Geology Department, University of Patras, Greece Teaching of:</p> <ol style="list-style-type: none"> 1. Earth Materials I: The structure of the crystals of minerals and mineral properties, 2. Earth Materials II: Crystal chemistry and Mineral Classification 3. Clay minerals and Environmental applications. 4. Applications of Computer programs to Geology.

PAPERS PUBLISHED IN INTERNATIONAL JOURNALS OF SCIENCE CITATION INDEX

1. PAPOULIS, D., TSOLIS-KATAGAS, P. AND KATAGAS, C. 2004. Monazite alteration mechanisms and depletion measurements in kaolins. *Applied Clay Science*. 24, 271-285.
2. PAPOULIS, D., TSOLIS-KATAGAS, P. AND KATAGAS, C. 2004. Progressive stages in the formation of kaolinite from halloysite in the weathering of plagioclase. *Clays and Clay Minerals*. 52, 271-285.
3. PANAGOPOULOS, G., LAMBRAKIS, TSOLIS-KATAGAS, P. AND PAPOULIS, D. 2004. Cation exchange processes and human activities in unconfined aquifers. *Environmental Geology*. 46, 542-552.
4. PANAGOPOULOS, G., LAMBRAKIS, N., KATAGAS, C., PAPOULIS, D. AND TSOLIS-KATAGAS, P. 2005. Water-rock interaction induced by contaminated groundwater in a karst aquifer, Greece. *Environmental Geology*. 49, 2, 300-313.
5. PAPOULIS, D. AND TSOLIS-KATAGAS, P. 2008. Formation of alteration zones and kaolin genesis, Limnos Island, Northeast Aegean Sea, Greece. *Clay Minerals*, 43, 631-646.
6. KOUKOUVELAS, I. AND PAPOULIS, D. 2009. Fluid involvement in the Helike normal Fault, Gulf of Corinth, Greece. *Journal of Structural Geology*. 31, 237-250.

7. PAPOULIS, D., TSOLIS-KATAGAS, P., KALAMPOUNIAS G.A. AND TSIKOURAS, B. 2009. Progressive stages of hydrothermal alteration of biotite and formation mechanisms of anatase in hydrothermally altered volcanic rocks from Limnos Island, Northeast Aegean Sea, Greece. *Clays and Clay Minerals*. 57, 5, 567-578.
8. NIKOLOPOULOU, A., PAPOULIS, D., KOMARNENI, S., TSOLIS-KATAGAS, P., PANAGIOTARAS, D., KACANDES, G.H., ZHANG, P., YIN, S., SATO, T. 2009. Solvothermal Preparation of TiO₂/Saponite Nanocomposites and Photocatalytic Activity. *Applied Clay Science*. 46, 363-368.
9. KOUTSOPOULOU, E., PAPOULIS, D., TSOLIS-KATAGAS, P AND KORNAROS, M. 2010. The behavior of clay minerals used in sanitary landfills for the retention of organic and inorganic pollutants. *Applied Clay Science*. 49, 372-382.
10. PAPOULIS, D., KOMARNENI, S., NIKOLOPOULOU, A., TSOLIS-KATAGAS, P., PANAGIOTARAS, D., KACANDES, G.H., ZHANG, P., YIN, S., SATO, T. AND KATSUKI, H. 2010. Palygorskite– and Halloysite–TiO₂ nanocomposites: Synthesis and photocatalytic activity. *Applied Clay Science*, 50, 118-124.
11. VASILIADOU, I., PAPOULIS, D., CHRYSIKOPOULOS, C., PANAGIOTARAS, D., KARAKOSTA, E., FARDIS, M., AND PAPAVALASSILIOU, G. 2011. Attachment of *Pseudomonas putida* on different structured kaolinite minerals: A combined ATR-FTIR and ¹H NMR study. *Colloids and Surfaces B: Biointerfaces*, 84, 354–359.
12. STATHATOS, E., PAPOULIS, D., AGGELOPOULOS, C.A., PANAGIOTARAS, D. AND NIKOLOPOULOU, A. 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*. 211-212, 68-76.
13. PANAGIOTARAS, D., PAPOULIS, D., KONTOPOULOS N. AND AVRAMIDIS, P. (2012). *Geochemical processes and sedimentological characteristics of Holocene lagoon deposits, Alikes Lagoon Zakynthos island, Western Greece*. Geological Journal. (In press).
14. LAMPROPOULOU, P.G., KATAGAS, C.G., ILIOPOULOS, I. AND PAPOULIS, D. 2012. Phase composition, microstructure, thermal expansion and cold crushing strength of new laboratory prepared magnesia-spinel refractories containing various amounts of Al₂O₃. *Refractories and Industrial Ceramics (In Press)*.
15. PAPOULIS, D., KOMARNENI, S., PANAGIOTARAS D., NIKOLOPOULOU A., CHRISTOFORIDIS, K.C., FERNANDEZ-GARCIA, M., HUIHUI LI, YIN SHU, AND SATO TSUGIO (2012). *Palygorskite–TiO nanocomposites: Part 2. Photocatalytic*

activities in decomposing air and organic pollutants. Accepted for publication, in Applied Clay Science.

16. PAPOULIS, D., KOMARNENI, S., PANAGIOTARAS D., NIKOLOPOULOU A., HUIHUI LI, YIN SHU, SATO TSUGIO AND KATSUKI, H. (2012). *Palygorskite–TiO₂ nanocomposites: Part 1. Synthesis and Characterization. Submitted for possible publication, in Applied Clay Science. Under Review.*

PAPERS PUBLISHED IN INTERNATIONAL CONFERENCES WITH IMPACT FACTOR

17. PAPOULIS, D., 2011. Clay-based nanocomposites: Possibilities and Limitations. AIP Conference *Proceedings*, 1450-1453.

PAPERS PUBLISHED IN INTERNATIONAL BOOKS

18. PAPOULIS, D., TSOLIS-KATAGAS, P., TSIKOURAS, B. & KATAGAS, C. (2005): An FT-Raman, Raman and FTIR study in hydrothermally altered volcanic rocks from Kos Island (Southeastern Aegean, Greece)-In: “The South Aegean Active Volcanic Arc: Present Knowledge and Future Perspectives”, *Developments in Volcanology 7*, M. Fytikas & G. Vougioukalakis (Eds), 293-304, Elsevier.
19. Dimitris Papoulis, Dionisios Panagiotaras, Georgios Panagopoulos (2012) . Arsenic: Environmental Impact Reduction Using Natural and Modified Adsorbents. In *Arsenic: Sources, Environmental Impact, Toxicity and Human Health - A Medical Geology Perspective*. NOVA Publishers. ISBN: 978-1-62081-320-1. In Press.
20. Dionisios Panagiotaras, George Panagopoulos, Dimitrios Papoulis, Pavlos Avramidis (2012) . Arsenic Geochemistry in Groundwater System. In *Geochemistry*. INTECH Publishers. ISBN: 978-953-308-2-4. Accepted.

PAPERS PUBLISHED IN INTERNATIONAL CONFERENCE PROCEEDINGS

21. PAPOULIS, D., TSOLIS-KATAGAS, P. 2001a. Kaolinization process in the Rhyolitic rocks of Kefalos, Kos island, Aegean Sea, Greece. *Proceedings of the 9th International Congress of Geological Society of Greece, Athens. XXXIV/3*, 867-874.
22. PAPOULIS, D. TSOLIS-KATAGAS, P. 2001b. Kaolin deposits of Leucogia, Rhodope, Greece: processes of kaolinization. *Proceedings of the 9th International Congress of Geological Society of Greece, Athens, XXXIV/3*, 875-882.
23. PAPOULIS, D., TSOLIS-KATAGAS, P AND KATAGAS, C. 2004. New find of

- Zunyite in advanced Argillic Alteration of Rhyolites, Kos Island, South Aegean volcanic arc, Greece. *Proceedings of the 10th International Congress of Geological Society of Greece, Thessaloniki, XXXVI/1*, 474-480.
24. TSOLIS-KATAGAS, P. AND PAPOULIS, D. 2004. Physical and Chemical properties of some Greek kaolins of different environments of origin. *Proceedings of the 10th International Congress of Geological Society of Greece, Thessaloniki, XXXVI/1*, 130-138.
 25. PAPOULIS, D. 2007. ²⁹Si and ²⁷Al CPMAS NMR qualitative and quantitative analysis of kaolinite and dickite in Kos island kaolins, Greece. *Proceedings of the 11th International Congress of Geological Society of Greece, Athens, XXXX/1*, 936-946.
 26. PAPOULIS, D. 2008. Supergene jarosite formation within smectite and illite hydrothermal zones from Limnos Island, Northeast Aegean Sea, Greece. *Modern Management of Mine Producing, Geology and Environmental Protection, SGEM, Bulgaria, I*, 299-306.
 27. PAPOULIS, D. AND KALAMPOUNIAS, G.A. 2008. Naturally produced anatase nanostructured films during the hydrothermal alteration of biotite. *Nanotechnology and Applications, NANA, Crete, Greece*. 157-162.
 28. NIKOLOPOULOU A., PAPOULIS D., TSOLIS-KATAGAS P., PANAGIOTARAS D. AND KACANDES G.H. 2009. Solvothermal Preparation and Characterization of TiO₂ Pillared Saponite. *Modern Management of Mine Producing, Geology and Environmental Protection, SGEM, Bulgaria*, 175-182.
 29. KOUTSOPOULOU, E., TSOLIS-KATAGAS, P. AND PAPOULIS, D. 2010. Heavy metals in stream sediments affected by a landfill and associated impact on groundwater quality. *12th International Congress of the Geological Society of Greece, Patras*.
 30. ANTONELOU A., TSIKOURAS B., PAPOULIS D. AND HATZIPANAGIOTOU K. 2010. Investigation of the formation of speleothems in the Agios Georgios Cave, Kilkis (N. Greece). *12th International Congress of the Geological Society of Greece, Patras*.
 31. AVRAMIDIS, P., PANAGIOTARAS, D., PAPOULIS, D. AND KONTOPOULOS N. 2010. Sedimentological and Geochemical characterization of Holocene sediments, from Alikes lagoon, Zakynthos Island, Western Greece. *12th International Congress of the Geological Society of Greece, Patras*. 558-567.

ABSTRACTS PUBLISHED IN CONFERENCE PROCEEDINGS

32. PANAGOPOULOS, G., LAMBRAKIS, N., DRE, E., PAPOULIS, D., TSOLIS-KATAGAS., P. (2002). Hydrothermal processes in Coastal aquifers as a result of nitrogenous applications. IAH Euro meeting 2002, Nitrate in Ground waters in Europe, Wisla, Poland, 4-7/06/2002.
33. PAPOULIS, D., TSOLIS-KATAGAS, P. AND KATAGAS, C. (2002). Monazite alteration mechanisms and depletion measurements in kaolins. Third Mediterranean Clay Meeting Jerusalem, Israel. September 30 – October 3, 2002, 50.
34. PAPOULIS, D., TSOLIS-KATAGAS, P., TSIKOURAS, B. & KATAGAS, C. (2003): An FT-Raman, Raman and FTIR study in hydrothermally altered volcanic rocks from Kos Island (Southeastern Aegean, Greece) International Conference, The South Aegean Active Volcanic Arc: Present Knowledge

- and Future Perspectives (SAAVA 2003), 17-20/9/2003, Milos Island, Greece, Abstracts, 72.
35. KOUTSOPOULOU, E., TSOLIS-KATAGAS, P. AND PAPOULIS, D. 2006. "Requisite characteristics of modern sanitary landfill facilities: a case study of the landfill of the Municipality of Patras, Greece", Hazards 2006, 11th International Symposium on Natural and Human Induced Hazards & 2nd Workshop on Earthquake Prediction, Patras, 22-23/06/2006, 57.
 36. TSOLIS-KATAGAS, P., PAPOULIS, D., GRAMMATIKOPOULOS, A. AND KYSER T.K. 2006. The impact of alteration mechanism and mineralogical composition to D and ¹⁸O of kaolins. Fourth Mediterranean Clay Meeting, Ankara Turkey, 5-10/09/2006, 126.
 37. KOUTSOPOULOU, E., TSOLIS-KATAGAS, P AND PAPOULIS, D. 2006. The behavior of clay minerals used in sanitary landfills as retarders of organic and inorganic pollutants. Fourth Mediterranean Clay Meeting, Ankara Turkey, 5-10/09/2006, 83.
 38. PAPOULIS, D. AND TSOLIS-KATAGAS, P. 2007. The characteristics and genesis of kaolins from Limnos Island, Northeast Aegean Sea, Greece. Euroclay Meeting. Aveiro, Portugal, 22-27/07/2007, 124.
 39. KOUTSOPOULOU, E., TSOLIS-KATAGAS, P. AND PAPOULIS, D. 2009. Assessment of the behaviour of Clay Minerals in a waste disposal facility. XIV International Clay Conference, Italy, Castellaneta Marina, 14-20/06/2009, II, 292.
 40. PAPOULIS, D. AND KOUKOUVELAS, I. 2009. Clay Minerals and fluid involvement in the active Helike normal fault, Gulf of Corinth, Greece. XIV International Clay Conference, Italy, Castellaneta Marina, 14-20/06/2009, II, 191.
 41. KOCABAS, C., PAPOULIS, D. COLAK, M. AND KOUTSOPOULOU, E. 2009. Formation of alteration zones and Dickite genesis in Sindirgi-Balikesir, Western Turkey. XIV International Clay Conference, Italy, Castellaneta Marina, 14-20/06/2009, II, 186.
 42. 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, Abstracts.
 43. AVRAMIDIS, P., PANAGIOTARAS, D., PAPOULIS, D. 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.
 44. NIKOLOPOULOU, A., PAPOULIS, D., KOMARNENI, S., TSOLIS-KATAGAS, P., PANAGIOTARAS, D., KACANDES, G.H., ZHANG, P., YIN, S., SATO, T. AND KATSUKI, H. (2011). *Palygorskite-TiO₂ nanocomposites: Synthesis and photocatalytic activity in decomposing NO_x gas.* European Clay Conference, 26 June-1 July, Antalya, Turkey.
 45. VASILIADOU, A. PAPOULIS, D. CHRYSIKOPOULOS, C.V. PANAGIOTARAS, D., KARAKOSTA, E., FARDIS, M. AND PAPA VASSILIOU, G. (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.
 46. PAPOULIS, D., ZAGANA, E., KOUTSOPOULOU, E. AND ROUMELIOTI, P. (2011). Lemnos earth: Quality and Suitability for Medicinal uses. GeoMed2011. 4th International Conference on Medical Geology- Bari, Italy. 226.