Panagiotis Oikonomopoulos

Ph.D. Candidate

Department of Chemistry
National and Kapodistrian University of Athens (UoA)
Panepistimioupolis, 157 71 Zografou, Greece
Tel.: +306975466815
Email: poikon@chem.uoa.gr
Date of Birth: 19 June 1993, Athens, Greece
Nationality: Greek

Education

- Ph.D. Candidate in Inorganic Chemistry (March 2020 – Present), Department of Chemistry, National and Kapodistrian University of Athens (UoA), Athens, Greece (Supervisor: Associate Professor Giannis S. Papaefstathiou).
  Thesis Title: "Metal-Organic Frameworks as materials for production of Electrochemical Sensors"
- Master's Degree in Inorganic Chemistry and its Applications in Industry (October 2018 – February 2020), Department of Chemistry, National and Kapodistrian University of Athens (UoA), Athens, Greece (Supervisor: Associate Professor Giannis S. Papaefstathiou). Grade: 9.79 / 10
  Thesis Title: "New Heavy Metal Ion Metal-Organic Framework based on Oxalamide Ligands"
- B.Sc. in Chemistry (October 2011 – October 2016), Department of Chemistry, National and Kapodistrian University of Athens (UoA), Athens, Greece. Grade: 7.19 / 10
  Thesis Title: "Polymer Complexes based on Oxalamide Ligands" (Supervisor: Associate Professor Giannis S. Papaefstathiou).

Experimental Techniques & Skills

- Synthesis of metal ion complexes (monomers, polynuclear metal complexes, coordination polymers, metal-organic frameworks) via solution chemistry, solid state chemistry, solvothermal conditions and layering technics.
- Synthesis of organic compounds (organic ligands with applications in coordination chemistry).
- Purification of chemical compounds.
- Crystallization (growth of single crystals) of chemical compounds.
- Characterization of chemical compounds with a variety of techniques such as: IR spectroscopy, NMR spectroscopy, UV/VIS spectroscopy, Thermal techniques (TGA), Powder X-ray.
- Solving and refining crystal structures.
- Usage of Cambridge Structural Database (Cambridge Crystallographic Data Center).

- Topological analysis of coordination polymers, coordination networks, and metal-organic frameworks.

Publications

- C. Kokkinos, A. Economou, A. Pournara, M. Manos, I. Spanopoulos, M. Kanatzidis, T. Tziotzi, V. Petkov, A. Margariti, P. Oikonomopoulos & G. S. Papaefstathiou "3D-printed lab-in-a-syringe voltammetric cell based on a working electrode modified with a highly efficient Ca-MOF sorbent for the determination of Hg(II)". Sensors Actuators B Chem., 2020, 321, 128508

Fellowship

- Excellence fellowship for best performance at courses during first semester of M.Sc. in Inorganic Chemistry and its Applications in Industry, Department of Chemistry, National and Kapodistrian University of Athens (UoA), Athens, Greece

Conferences Participation

- P. Oikonomopoulos, A. Margariti, A. D. Pournara, A. Economou, C. Kokkinos, M. J. Manos and G. S. Papaefstathiou “Heavy metal ion MOFs as models for the sorption of metal ions in aqueous solutions from an alkaline earth based MOF” Green Chemistry and Sustainable Development, 6th Panhellenic Symposium with International Participation, 18 - 20 Oct 2019, Athens, Greece. Poster Presentation
- P. Oikonomopoulos, A. Margariti, S. Rapti, A. D. Pournara, A. D. Katsenis, T. Friščić, T. Lazarides, M. J. Manos and G. S. Papaefstathiou “Hg(II) Metal-Organic Framework: Material Model as a result of Alkaline earths ion exchange by Hg(II)” 21st Postgraduate Conference Chemistry (Department of Chemistry, University of Crete), 15 - 17 May 2019, Heraklion, Greece. Oral Presentation

Work Experience

- May 2017 – July 2018 IKOCHIMIKI SA: Quality Control and Quality Assurance Senior (QC, QA, RnD)

Languages

- Greek (native)
- English (C2) Certificate of Proficiency in English, University of Michigan.
- German (B1) Goethe-Zertifikat B1, Goethe Institut.
- Swedish (A2) Foreign Language Teaching Center, National and Kapodistrian University of Athens (UoA).