

# Giannis S. Papaefstathiou

## Professor

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[Google Scholar Citations](#)

Date of Birth: 28 May 1974, Strofyliia Evvoias, Greece  
Nationality: Greek  
Marital Status: Single

### **CURRENT STATUS:**

- 7/2020-today: Professor, Department of Chemistry, National and Kapodistrian University of Athens, Greece.
- 9/2016-7/2020: Associate Professor, Department of Chemistry, National and Kapodistrian University of Athens, Greece.
- 6/2011-9/2016: Assistant Professor, Department of Chemistry, National and Kapodistrian University of Athens, Greece.
- 11/2006-6/2011: Lecturer, Department of Chemistry, National and Kapodistrian University of Athens, Greece.
- 2005-2015: Associate Instructional Personnel in General and Inorganic Chemistry, Hellenic Open University, Greece.
- 2005-2006 (fall semester): Temporary Lecturer, Department of Pharmacy, University of Patras, Greece.

### **EDUCATION:**

- *Ph.D. in Chemistry* (November 1998 - May 2002), Department of Chemistry, University of Patras, Patras, Greece (Supervisor: Professor Spyros P. Perlepes).

Thesis Title: “Development of Synthetic Strategies, Chemical Reactivity and Characterization of Polynuclear Metal Complexes and Coordination Polymers of First-Row Transition Metal Ions”

- *B.Sc. in Chemistry* (September 1993 - July 1998), University of Patras, Patras, Greece.

#### **EARLY RESEARCH EXPERIENCE:**

- *Postdoctoral Research* (September 2005 – September 2006), PYTHAGORAS I, Supervisor: Professor Spyros P. Perlepes. Department of Chemistry, University of Patras, Patras, Greece.  
“Chemistry of Polynuclear Complexes of 3d and 4f Metal Ions: From the Efforts for the Development of Synthetic Strategies to the Creation of Active-Site Models of Important Metallobiomolecules and from the Search of Single Molecule Magnets to the Isolation of Molecular Materials with Desirable Optical Properties”
- *Postdoctoral Research* (June 2002 - June 2004), Supervisor: Professor Leonard R. MacGillivray. Department of Chemistry, University of Iowa, Iowa City, USA.  
“Application of Coordination Chemistry to Solid State Organic Chemistry and solid-state photochemistry”
- *Graduate Research Abroad* (February 2001 - August 2001), Supervisor: Professor Leonard R. MacGillivray. Department of Chemistry, University of Iowa, Iowa City, USA.  
“Introduction to Solid State Organic Synthesis – Green Chemistry”
- *Graduate Research Abroad - ERASMUS” Fellowship* (February 2000 - July 2000), Supervisors: Professors Albert Escuer and Ramon Vicente. Departament de Química Inorgànica, Universitat de Barcelona, Barcelona, Spain.  
“Synthesis, Structural, Spectroscopic and Magnetic Characterization of First-Row Transition Metal Polynuclear Complexes based on Di-2-Pyridyl Ketone and Pseudohalogeno Ligands”
- *Graduate Research* January (2000 - June 2001), Supervisor: Professor Spyros P. Perlepes.  
“PENED-1999” Fellowship. Department of Chemistry, University of Patras, Patras, Greece.  
“Two Dimensional (2D) and Three Dimensional (3D) Coordination Polymers as Molecular Magnetic Materials: Synthesis, Structural Characterization, Magnetic and Spectroscopic Properties, and Quantum Chemical Studies”
- *Graduate Research* (October 1998 - September 2001), Supervisor: Professor Spyros P. Perlepes. “K. Karatheodoris” Fellowship. Department of Chemistry, University of Patras, Patras, Greece.

“Clusters of 3d-Metal Ions: Synthesis, Characterization and Properties”

- *Short-term Graduate Research Abroad* (August 1998 - September 1998), Supervisor: Professor Herman O. Desseyn. Laboratorium Anorganische Scheikunde, Rijksuniversitair Centrum Antwerpen (RUCA), Antwerpen, Belgium.

“First-Row Transition Metal Ion Complexes of Urea and N,N'-dimethylurea”

- *Undergraduate Research -“Diplomatic Work”* (October 1997 - May 1998), Supervisor: Professor Spyros P. Perlepes. Department of Chemistry, University of Patras, Patras, Greece.

Thesis Title: “CuCl<sub>2</sub> and CuCl Complexes of 2,1,3-Benzothiadiazole”

- *Undergraduate Research* (March 1996 - September 1997), Supervisor: Professor Spyros P. Perlepes. Department of Chemistry, University of Patras, Patras, Greece.

“Coordination chemistry of N-alkyloxamates”

#### **FELLOWSHIPS & AWARDS:**

- «PYTHAGORAS I» *Postdoctoral Fellowship*: Operational Program II for Educational and Training, Greek General Secretariat for Research and Technology (09/2005-08/2006).
- *Postdoctoral Fellowship* from NSF and Honda Initiation Grant (H.P.A.) 6/2003-6/2004.
- *University of Iowa: Biosciences Initiative Postdoctoral Fellowship Program* 6/2002-6/2003.
- *American Chemical Society: 5<sup>th</sup> Annual Green Chemistry and Engineering Conference* “A New Generation of Professionals-A New Generation of Processes”, Washington, USA, June 26-28, 2001. Student Fellowship.
- *Foundation in Memory of Prof. Dr. Jezowska-Trzebiatowska*: XIIth Winter School on Coordination Chemistry, Karpacz, Poland, December 4-8, 2000. Student Fellowship.
- *EURESCO Conference*: “Design and Properties of Low Nuclearity Metal Complexes, Achievements and Challenges of Organometallic Chemistry and Homogeneous Catalysis”, San Feliu de Guixols, Spain, September 2-7, 2000. Student Fellowship.
- *A NATO Advanced Study Institute and a Euroconference: International School of Crystallography*, 28<sup>th</sup> Course “Crystal Engineering: From Molecules and Crystals to Materials”, Erice, Italy, May 12-23, 1999. Student Fellowship.
- «ERASMOUS» Fellowship (1/2/2000 - 31/7/2000).
- «K. KARATHEODORIS», Fellowship of the University of Patras (1/10/1998 - 30/9/2001).

## RESEARCH PROGRAMS – FUNDING at UoA:

- 2022-2024: Principal Investigator: Title: Metal-Organic Frameworks as sorbents for the removal of heavy metal ions from contaminated waters; Source: financed by the European Union - NextGenerationEU in the context of the National Recovery and Resilience Plan (Greece 2.0) under the call 16971: RESEARCH – CREATE – INNOVATE; Duration: 30 months; Budget: 806.690,74 €.
- 2020-2022: Coordinator and Principal Investigator: Title: 3D-printed Wearable sensors based on Metal-Organic Frameworks for the electrochemical sweat glucose monitoring; Source: co-financed by the European Regional Development Fund of the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation, under the call RESEARCH –CREATE –INNOVATE; Duration: 36 months; Budget: 880.398,39 €.
- 2020-2021: Principal Investigator: Title: Mechanochemical synthesis of Metal-Organic Frameworks for water purification; Source: co-financed by Greece and the European Union (European Social Fund-ESF) through the Operational Programme «Human Resources Development, Education and Lifelong Learning 2014-2020»; Duration: 15 months; Budget 46.046,00€.
- 2016-2019: Management Committee Substitute. “Molecular Spintronics” *COST CA15128*.
- 11/2013-10/2015: Principal Investigator: Title: Tailor-made Metal-Organic Frameworks as Trace Gas Detectors for Food Quality Control; Source: co-financed by the European Union (ERDF) and the national funding agencies BMBF/ Germany and GSRT/ Greece Bilateral R&D Cooperation between Greece and Germany 2013 – 2015; Duration: 24 months; Budget 249.862,14€.
- 6/2013-5/2016: Principal Investigator: Title: Seeking New Molecular Materials at the Edge of Organic Solid-State Chemistry, Photochemistry and Metal Complex Chemistry; Source: Empirikion Foundation; Duration: 36 months; Budget: 10.824€.
- 4/2012-1/2016: Team Leader: Title: Polynuclear Transition Metal Complexes: Development of Synthetic Strategies, Reactivity and Applications in Magnetic and Catalytic Materials (Coordinator S. P. Perlepes, University of Patras); Source: General Secretariat for Research and Technology of Greek Ministry of Education, Lifelong Learning and Religious Affairs under the THALIS Research Programme 2010-2013; Duration: 46 months; Budget: 600.000€.

- 2010: Principal Investigator: Title: Studying metal complexes with thermal techniques; Source: Bodosaki Foundation; (Acquisition of a TGA/DSC instrument for the Department of Chemistry of UoA). Budget: 52.260€.
- 2009-2011: Collaborative Researcher: Title: Metal-Organic Frameworks based on poly-alcohols and poly-carboxylic acids as materials for H<sub>2</sub> storage: Synthesis, characterization and study (Coordinator A. J. Tasiopoulos, University of Cyprus); Source: Research Promotion Foundation of Cyprus; Duration: 36 months; Budget: 130.000€.
- 2008-2009: Principal Investigator: Title: Polynuclear metal complexes as molecular magnetic materials and starting materials for coordination polymers; Source: National and Kapodistrian University of Athens; Duration: 24 months; Budget: 2.000€.
- 2006-2007: Principal Investigator: Title: Metal-Organic Frameworks: Porous materials for hydrogen storage; Source: National and Kapodistrian University of Athens; Duration: 24 months; Budget: 1.600€.
- 2006-2011: Research Member: Title: Multifunctional and Switchable Molecular Materials: Design, Synthesis, Characterization and Preparations as Crystals and Thin Films; Source: COST D35-WG11; Duration: 72 months.

## **TEACHING:**

### *Undergraduate courses and laboratory training at UoA*

- Materials Chemistry, Department of Chemistry. 2015-2021.
- Special Issues in Inorganic Chemistry, Department of Chemistry. 2010-2022.
- Laboratory of Inorganic Chemistry I, Department of Chemistry. 2006-2007, 2012-2022.
- Laboratory of Inorganic Chemistry III, Department of Chemistry. 2007-2021.
- Inorganic Chemical Technology, Department of Chemistry. 2008-2010.
- Laboratory of Spectroscopy, Department of Chemistry. 2007-2010.
- Laboratory of Inorganic Chemistry II, Department of Chemistry. 2006-2007, 2011-2012.
- Inorganic Chemistry I, Department of Pharmacy. 2009-2015.
- General Chemistry, Department of Physics. 2007-2008.
- Chemistry Laboratory, Department of Geology. 2007-2012.
- Chemistry Laboratory, Department of Physics. 2006-2011.

### *Post-graduate courses at UoA.*

- Inorganic Structure and Reactivity, Department of Chemistry. 2016-2022.
- Modern Spectroscopic Methods and Methods of determination and analysis. Laboratory. 2018-2022.
- Magnetic and Optical Materials for Information Storage. 2018-2022.
- Materials Chemistry, Department of Chemistry. 2010-2018.
- Laboratory Techniques for the Separation of Substances and Structure Determination, Department of Chemistry. 2010-2018.
- Chemistry of Mineral Resources, Department of Chemistry. 2007-2010.

*Undergraduate courses and laboratory training at other Institutions*

- General and Inorganic Chemistry, Studies in the Physical Sciences, Hellenic Open University. 2005-2015, 2016-2017 and 2019-2020.
- Laboratory of General and Analytical Chemistry, Department of Pharmacy, University of Patras. 2005-2006.

**SUPERVISION OF STUDENTS:**

*Postgraduate Students (Ph. D. Diploma)*

1. Athanassios Katsenis, 2009-2014. "Development of Synthetic Strategies, Chemical Reactivity and Characterization of Metal Clusters and Metal-Organic Frameworks".
2. Alexandros Perivolaris, 2011-2015. "Synthesis and Characterization of High-Spin Metal Clusters and Single-Molecule Magnets".
3. Christiana Birnara, 2010-2017. "Synthesis and Characterization of Al(III), Ga(III) and In(III) Complexes with N- and O- Ligand Donors".
4. Athena Fidelli, 2012-2017. "Development of Synthetic Strategies for Metal-Organic Frameworks Based on Bridging and non-Bridging Ligands".
5. Antigoni Margariti, 2014-2018. "Synthesis, Characterization and Properties of new Metal-Organic Frameworks".
6. Georgios Tarlas, 2015-2019. "Synthesis, Characterization and Properties of New Functional Metal-Organic Frameworks".
7. Nikos Moutzouris, 2017-2022. "Synthesis, Characterization and Properties of New Metal-Organic Frameworks Based on Metallo-Ligands".

8. Alexis Plessas, 2019-2022. "Synthesis, Characterization and Properties of New Metal-Organic Frameworks.
9. Panos Oikonomopoulos, 2020-today. "Metal-Organic Frameworks as Materials for Electrochemical Sensors"
10. Pantelis Kotidis, 2022-today. "Metal-Organic Frameworks as Materials for the Removal of Heavy Metal Ions from Contaminated Waters"

*Postgraduate Students (M. Sc. Degree)*

1. Athanassios Katsenis, 2007-2009. "Co(II) and Cd(II) Metal Clusters as Building Blocks for the Synthesis of Metal-Organic Frameworks".
2. Christiana Birnara, 2007-2010. "Gallium(III) Complexes of Salicylaldehyde-oxime and its Substituted Derivatives: Synthesis, Structural Characterization and Photophysical Properties".
3. Alexandros Perivolaris, 2008-2010. "Synthesis, Structural Characterization and Magnetic Properties of Mn(III) and Ni(II) Oxime-Based Clusters".
4. Sotiria Tella, 2009-2011. "Ga(III) Complexes with Schiff-Base Ligands".
5. Vasileios Anastasiadis, 2009-2011. "Synthesis, Structure and Magnetic Properties of Cobalt and Manganese Complexes with Oxime Ligands".
6. Athena Fidelli, 2010-2012. Τίτλος: "Cu(II) Coordination Polymers Based on Trimesic Acid and Di-2-pyridyl Ketone".
7. Andreas Konstantatos, 2011-2013. "Synthesis, Structure and Magnetic Properties of Nickel(II) Oximate Complexes".
8. Andreas Kostopoulos, 2012-2014. "Synthesis, Structure and Magnetic Properties of Copper(II) Oximate Complexes".
9. Georgios Tarlas, 2013-2015. "Synthesis, Characterization and Properties of New Metal-Organic Frameworks Based on Oxalamides".
10. Maria Gkika, 2014-2016. "Metal Complexes Based on Ligands that Undergo Metal-Assisted Transformations".
11. Nikos Moutzouris, 2015-2017. "Synthesis and Characterization of Oxalamide Metallo-Ligands as Building Blocks for the Synthesis of Metal-Organic Frameworks".
12. Georgios Tselikoglou, 2016-2018. "Synthesis and Characterization of Metallo-Ligands based on Schiff-bases as Starting Materials for the Synthesis of Metal-Organic Frameworks".
13. Alexis Plessas, 2017-2019. "Metal-Organic Frameworks Based on Single-Molecule Magnets"

14. Panos Oikonomopoulos, 2018-2020. "Metal-Organic Frameworks of Heavy Metal Ions Based on Oxalamide Ligands"
15. Fillipos Koliopanos, 2018-2020. "Metal-Organic Frameworks Based on Oxalamide Ligands as Materials for White Light Emission"
16. Pantelis Kotidis, 2020-2022. "Synthetic Methods for Metal-Organic Frameworks"
17. Eleni Mavridou, 2020-2022. "Study of Cr<sup>6+</sup> sorption by Metal-Organic Frameworks"
18. Dimitra Zisimopoulou, 2021-today.

#### *Undergraduate Students*

- Aggeliki Nianiarou, 2007-2008.
- Maria Hatzidaki and Stella Mystakopoulou, 2007-2008.
- Vasiliki Tsiriva, 2008-2009.
- Athena Fidelli, 2009-2010.
- Andreas Kostopoulos and Andreas Konstantatos, 2010-2011.
- Marios Stavrou, 2011-2012.
- Ioannis Pastrikos, 2012-2013.
- Alexandros Ioannou and Nicolaos Moutzouris, 2014-2015.
- Panos Oikonomopoulos, 2015-2016.
- Alexis Plessas, 2015-2017.
- Fillipos Koliopanos, 2016-2017.
- Pantelis Kotidis, 2019-2020.
- Fanis Dimitrakopoulos, 2020-2022.
- Katerina Giouhana, 2020-2021.
- Myrianthi Dimitriou and Panagiota Mourtzinou, 2020-2021.
- Ioannis Vagiakos, 2021-2022.
- Vasiliki Kyriakopoulou, 2021-2022.
- Athanasia Koskoletou, 2021-today.

#### **EXPERIMENTAL TECHNIQUES & SKILLS:**



- *Synthesis* of metal ion complexes (monomers, polynuclear metal complexes, coordination polymers, metal-organic frameworks).
- *Solid-State* inorganic / organic synthesis (template-directed synthesis)
- *Solid-State reactivity / photochemistry* (organic compounds and metal complexes)
- *Purification* of chemical compounds.
- *Crystallization* (growth of single crystals) of chemical compounds.
- *Characterization* of chemical compounds with *thermal techniques* (TG/DTG, DTA, DSC) and *spectroscopic methods* IR, far-IR, Raman, UV/VIS, and NMR (Bruker DPX-300, DRX-400, Varian UNITY Plus 300).
- *Qualitative and quantitative* analysis of metal ions using instrumental methods.
- *Crystallography* (solving and refining crystal structures).
- *Topological analysis of periodic networks*.
- *Fitting of magnetic data*.
- Computer working environments (DOS/WINDOWS/LINUX).
- Molecular visualization-crystal structures-topology (ATOMS, ChemOffice, ChemWin, RASMOL, RasTop, WinGX, Struplo, Ortep32, Platon, X-seed, Ortex, OLEX, TOPOS, Diamond, Mercury), NMR analysis software (WINNMR, Nuts, MestreC, SpinWorks, MestreNova) and programs for simulating / fitting of magnetic data (MAGPACK, MAGMOFIT2006, ITO-MAGFIT, PHI)
- Usage of Cambridge Structural Database (Cambridge Crystallographic Data Center).

**PUBLICATIONS:** (**A:** Account; **C:** Communication; **N:** Note; **L:** Letter; **FP:** Full Paper; **R:** Review) Sum of the Times Cited: 4.883 (4929) (5301), Sum of Times Cited without self-citations: 4.555 (4599), Citing Articles: 3.503 (3549), Citing Articles without self-citations: 3.414 (3462), h-index: 36 (36) (37) (source Web of Science – Scopus – Google Scholar 9-11-2022).

119. (FP) Vasiliou, F.; Plessas, A. K.; Economou, A.; Thomaidis, N.; Papaefstathiou, G. S.; Kokkinos, C. "Graphite paste sensor modified with a Cu(II)-complex for the enzyme-free simultaneous voltammetric determination of glucose and uric acid in sweat." *J. Electroanal. Chem.* **2022**, 917, 116393.
118. (FP) Moutzouris, N.; Moushi, E. E.; Tziotzi, T. G.; Tarlas, G. D.; Tasiopoulos, A. J.; Escuer, A.; Papaefstathiou, G. S. "Metallo-ligand based 3d/4f coordination polymers:

- Synthesis, structure and magnetic properties." *European Journal of Inorganic Chemistry*, **2022**, e202200024.
117. (FP) Fidelli, A. M.; Katsenis, A. D.; Kotidis, P.; Tarlas, G. D.; Pournara, A.; **Papaefstathiou, G. S.\*** "Enhanced Cr(VI) sorption capacity of the mechanochemically synthesized defective UiO-66 and UiO-66-NH<sub>2</sub>." *Journal of Coordination Chemistry* **2021**, *74*, 2835–2849.
116. (FP) Mertzenich, C. L.; **Papaefstathiou, G. S.**; Friščić, T.; Hamilton, T. D.; Bučar, D. K.; Swenson, D. C.; MacGillivray, L. R. "Inverted metal–organic frameworks: isorecticular decoration with organic anions using principles of supramolecular chemistry". *Journal of Coordination Chemistry*, **2021**, *74*, 169–177.
115. (FP) Margariti A.; Moushi E.; Tasiopoulos A. J.; Escuer A.; **Papaefstathiou G. S.\*** "Oxalamide Based Coordination Polymers" *Journal of Coordination Chemistry*, **2021**, *74*, 252–265.
114. (FP) Diamantis S. A.; Hatzidimitriou A.; Plessas A. K.; Pournara A.; Manos M. J.; **Papaefstathiou G. S.\***; Lazarides T. "Alkaline earth-organic frameworks with amino derivatives of 2,6-naphthalene dicarboxylates: structural studies and fluorescence properties" *Dalton Transactions*, **2020**, *46*, 16736–16744.
113. (L) Vlachou E.; Margariti A.; **Papaefstathiou G. S.**; Kokkinos C. "Voltammetric Determination of Pb (II) by a Ca-MOF-Modified Carbon Paste Electrode Integrated in a 3D-Printed Device" *Sensors*, **2020**, *20*, 4442.
112. (FP) Kokkinos C.; Economou A.; Pournara A.; Manos M. J.; Spanopoulos I.; Kanatzidis M.; Tziotzi T.; Petkov V.; Margariti A.; Oikonomopoulos P.; **Papaefstathiou G. S.\*** "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. Chemical*, **2020**, *321*, 128508.
111. (FP) Moushi E. E.; Kourtellaris A.; Andreou E.; Fidelli A.; **Papaefstathiou G. S.\***; Plakatouras J. C.; Tasiopoulos A. J. "New Metal Organic Frameworks Derived from pyridine-3,5-dicarboxylic acid: Structural Diversity Rising from the Addition of Templates in the Reaction Systems" *CrystEngComm*, **2020**, *22*, 2083–2096.

110. (FP) Papazoi E.; Douvali A.; Diamantis S. A.; **Papaefstathiou G. S.**; Eliseeva S. V.; Petoud S.; Hatzidimitriou A. G.; Lazarides T.; Manos M. J. "Unravelling the mechanism of water sensing by the Mg<sup>2+</sup> dihydroxy-terephthalate MOF (AEMOF-1)" *Molecular Systems Design & Engineering*, **2020**, *5*, 461–468.
109. (R) Pournara A. D.; Tarlas G. D.; **Papaefstathiou G. S.\***; Manos M. J. "Chemically modified electrodes with MOFs for the determination of inorganic and organic analytes via voltammetric techniques: a critical review" *Inorganic Chemistry Frontiers*, **2019**, *6*, 3440–3455.
108. (FP) Pournara A. D.; Margariti A.; Tarlas G. D.; Kourtellaris A.; Petkov V.; Kokkinos C.; Economou A.; **Papaefstathiou G. S.\***; Manos M. J. "A Ca<sup>2+</sup> MOF combining highly efficient sorption and capability for voltammetric determination of heavy metal ions in aqueous media" *Journal of Materials Chemistry A*, **2019**, *7*, 15432–15443.
107. (FP) Kourtellaris A.; Moushi E. E.; Spanopoulos I.; Trikalitis P. N.; Pissas M.; **Papaefstathiou G. S.**; Sanakis Y.; Tasiopoulos A. J. "A Microporous Co(II)-Based 3-D Metal Organic Framework Built from Magnetic Infinite Rod-Shaped Secondary Building Units" *European Journal of Inorganic Chemistry*, **2019**, 4056–4062.
106. (FP) Tarlas G. D.; Katsenis A. D.; **Papaefstathiou G. S.** "An I<sup>2</sup>O<sup>1</sup> barium framework derived from an in-situ metal-assisted ligand transformation" *European Journal of Inorganic Chemistry*, **2018**, 4458-4464.
105. (FP) Diamantis S. A.; Pournara A. D.; Hatzidimitriou A. G.; Manos M. J.; **Papaefstathiou G. S.**; Lazarides T. "Two new alkaline earth metal organic frameworks with the diamino derivative of biphenyl-4,4'-dicarboxylate as bridging ligand: Structures, fluorescence and quenching by gas phase aldehydes" *Polyhedron*, **2018**, *153*, 173-180.
104. (FP) Margariti A.; Pournara A. D.; Manos M. J.; Lazarides T.; **Papaefstathiou G. S.** "Towards white-light emission by Tb<sup>3+</sup>/Eu<sup>3+</sup> substitution in a Ca<sup>2+</sup> framework" *Polyhedron*, **2018**, *153*, 24-30.
103. (R) Diamantis S. A.; Margariti A.; Pournara A. D.; **Papaefstathiou G. S.**; Manos M. J.; Lazarides T. "Luminescent metal–organic frameworks as chemical sensors: common

- pitfalls and proposed best practices” *Inorganic Chemistry Frontiers*, **2018**, *5*, 1493-1511.
102. (FP) Pournara A. D.; Douvali A.; Diamantis S.; **Papaefstathiou G. S.**; Hatzidimitriou A. G.; Kaziannis S.; Kosmidis C.; Lazarides T.; Manos M. J. “A new Cd<sup>2+</sup>-dihydroxyterephthalate MOF: Synthesis, crystal structure and detailed photophysical studies” *Polyhedron*, **2018**, *151*, 401-406.
101. (FP) Chu Q.; Duncan A. J. E.; **Papaefstathiou G. S.**; Hamilton T. D.; Atkinson M. B. J.; Mariappan S. V. S.; MacGillivray L. R. “Putting Cocrystal Stoichiometry to Work: A Reactive Hydrogen-Bonded “Superassembly” Enables Nanoscale Enlargement of a Metal–Organic Rhomboid via a Solid-State Photocycloaddition” *Journal of the American Chemical Society*, **2018**, *140*, 4940-4944.
100. (FP) Fidelli A. M.; Armakola E.; Demadis K. D.; Kessler V. G.; Escuer A.; **Papaefstathiou G. S.** “Cu<sup>II</sup> frameworks from di-2-pyridyl ketone and benzene-1,3,5-triphosphonic acid” *European Journal of Inorganic Chemistry*, **2018**, 91-98.
99. (FP) Fidelli A. M.; Kessler V. G.; Escuer A.; **Papaefstathiou G. S.** “Cu(II) frameworks from a “mixed-ligand” approach” *CrystEngComm*, **2017**, *19*, 4355-4367.
98. (FP) Margariti A.; Rapti S.; Katsenis A. D.; Friščić T.; Georgiou Y.; Manos M. J.; **Papaefstathiou G. S.** “Cu<sup>2+</sup> Sorption from Aqueous Media by a Recyclable Ca<sup>2+</sup> Framework” *Inorganic Chemistry Frontiers*, **2017**, *4*, 773-781.
97. (FP) Papazoi E.; Douvali A.; Rapti S.; Skliri E.; Armatas G. S.; **Papaefstathiou G. S.**; Wang X.; Huang Z.-F.; Kaziannis S.; Kosmidis C.; Hatzidimitriou A. G.; Lazarides T.; Manos M. J. “A Microporous Mg<sup>2+</sup> MOF with Cation Exchange Properties in a Single-Crystal-to-Single-Crystal Fashion” *Inorganic Chemistry Frontiers*, **2017**, *4*, 530-536.
96. (FP) Birnara C.; Kessler V. G.; **Papaefstathiou G. S.** “Group III Quinaldates: Synthesis, Structure and Photoluminescence” *Journal of Coordination Chemistry*, **2017**, *70*, 997-1007.
95. (FP) Kourtellaris A.; Moushi E. E.; Spanopoulos I.; Tampaxis C.; Charalambopoulou G.; Steriotis T. A.; **Papaefstathiou G. S.**; Trikalitis P. N.; Tasiopoulos A. J. “A Microporous

Cu<sup>2+</sup> MOF Based on a Pyridyl Isophthalic Acid Schiff Base Ligand with High CO<sub>2</sub> Uptake” *Inorganic Chemistry Frontiers*, **2016**, *3*, 1527-1535.

94. (FP) Douvali A.; **Papaefstathiou G. S.**; Gullo M. P.; Barbieri A.; Tsipis A. C.; Malliakas C. D.; Kanatzidis M. G.; Papadas I.; Armatas G. S.; Hatzidimitriou A. G.; Lazarides T.; Manos M. J. “Alkaline Earth Metal Ion/Dihydroxy–Terephthalate MOFs: Structural Diversity and Unusual Luminescent Properties” *Inorganic Chemistry* **2015**, *54*, 5813-5826.
93. (C) Douvali A.; Tsipis A. C.; Eliseeva S. V.; Petoud S.; **Papaefstathiou G. S.**; Malliakas C. D.; Papadas I.; Armatas G. S.; Margiolaki I.; Kanatzidis M. G.; Lazarides T.; Manos M. J. “Turn-on Luminescence Sensing and Real-Time Detection of Traces of Water in Organic Solvents by Flexible Metal-Organic Framework” *Angewandte Chemie International Edition* **2015**, *54*, 1651-1656.
92. (FP) Moushi E. E.; Kourtellaris A.; Spanopoulos I.; Manos M. J.; **Papaefstathiou G. S.**; Trikalitis P. N.; Tasiopoulos A. J. “A Microporous Co<sup>2+</sup> Metal Organic Framework with Single–Crystal to Single–Crystal Transformation Properties and High CO<sub>2</sub> Uptake” *Crystal Growth & Design*, **2015**, *15*, 185-193.
91. (FP) Perivolaris A.; Fidelli A. M.; Inglis R.; Kessler V. G.; Slawin A. M. Z.; Brechin E. K.; **Papaefstathiou G. S.** “A family of hexanuclear Mn(III) single-molecule magnets” *Journal of Coordination Chemistry*, **2014**, *67*, 3972-3976.
90. (C) **Papaefstathiou G. S.**; Duncan A. J. E.; MacGillivray L. R. “Two act as one: unexpected dimers of catechol direct a solid-state [2+2] photodimerization in a six-component hydrogen-bonded assembly” *Chemical Communications*, **2014**, *50*, 15960-15962.
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- Katsenis A. D.; Brechin E. K.; **Papaefstathiou G. S.** "Metal-Organic Frameworks From Single-Molecule Magnets" in Metal-Organic Framework Materials, *Encyclopedia of Inorganic and Bioinorganic Chemistry*, L. R. Macgillivray, C. Lukehart (Eds), John Wiley & Sons, **2014**, 245-258.

#### PATENTS:

- MacGillivray L. R.; **Papaefstathiou G. S.** "Optical Data Storage Materials and Devices", **2004**, provisional patent application (USA).
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## ORAL PRESENTATIONS & SEMINARS:

41. "Metal-Organic Frameworks based on bis and tris-amide organic ligands" 9<sup>th</sup> *North America-Greece-Cyprus Conference on Paramagnetic Materials (NAGC2022)*, Ayia Napa, Cyprus, 9-13 May, **2022**. (invited)
40. "Polynuclear Metal Complexes (Metal Clusters): Synthesis, Structure and Magnetic Properties" *COST Action TD 1402: Multifunctional Nanoparticles for Magnetic Hyperthermia and Indirect Radiation Therapy (RADIOMAG)*, Training School, Athens, Greece, 21-24 November **2017**. (invited)
39. "Oxalamide Based Metal-Organic Frameworks" 2017- *CTMNM/NAGC Workshop-Cyprus*, Pafos, Cyprus, 8-12 May, **2017**, page 52 in the Book of Abstracts. (invited)
38. "Oxalamide Based Metal-Organic Frameworks" 16<sup>th</sup> *International Conference on Polymers and Organic Chemistry (POC-16)*, Hersonissos, Crete, Greece, 13-16 June, **2016**, page 64 in the book of abstracts.
37. "Polynuclear Metal Complexes and Metal-Organic Frameworks" *National Hellenic Research Foundation*, Athens, Greece, 21 April, **2016**. (invited)
36. "Metal Assisted Ligand Transformations, Chemical Reactivity and Magnetism in 3d Metal Oximate Clusters" *Fifth Workshop on Current Trends in Molecular and Nanoscale Magnetism (CTMNM 2014)*, Larnaca, Cyprus, 26-29 May, **2014**, one page in the book of Abstracts. (invited)
35. "Polynuclear Metal Complexes and their Infinite Architectures" *Fifth North America-Greece-Cyprus Workshop on Paramagnetic Materials*, Limassol, Cyprus, 22-26 May, **2013**, one page in the book of Abstracts. (invited)
34. "Metal-Organic Frameworks: Synthetic Strategies and Applications" 6<sup>th</sup> *World Congress of Nonlinear Analysts, "Chemistry: From Molecules and Materials to Applications"*, Athens, Greece, 25 June - 1 July, **2012**, one page in the book of Abstracts. (invited)
33. "Assembling Polynuclear Metal Complexes into Supramolecular Architectures" 12<sup>th</sup> *Eurasia Conference on Chemical Sciences*, Corfu, Greece, 16-21 April, **2012**, one page in the book of Abstracts.

32. "Metal Clusters and Metal-Organic Frameworks: From Inorganic Chemistry to Metallo-Supramolecular Chemistry" Seminar, *Department of Chemistry, University of Cyprus*, Nicosia, Cyprus, 18 November, **2011**. (invited)
31. "Assembling Polynuclear Metal Complexes into Supramolecular Architectures" *Structure- & Computer- aided Design Workshop: Bioactive Molecules and Materials*, National Hellenic Research Foundation, Institute of Organic & Pharmaceutical Chemistry, Athens, 7-11 November, **2011**, one page in the book of Abstracts. (invited)
30. "Metal Clusters and Metal-Organic Frameworks: From Inorganic Chemistry to Metallo-Supramolecular Chemistry" *17<sup>o</sup> Postgraduate Conference Chemistry (University of Crete)*, Herakleion, Greece, 15-18 July, **2011**. (invited)
29. "Recipes for Making Metal-Organic Frameworks Based on Pre-Isolated Metal Clusters" *5<sup>th</sup> Panhellenic Symposium on Porous Materials*, Heraklion, 30 June - 1 July, **2011**, two pages in the book of Abstracts.
28. "Assembling Polynuclear Metal Complexes into Discrete and Infinite Architectures" *Fourth North America-Greece-Cyprus Workshop on Paramagnetic Materials*, Patras, 14-18 June, **2011**, one page in the book of Abstracts. (invited)
27. "Adventures in assembling paramagnetic polynuclear metal complexes and single-molecule magnets into discrete and infinite architectures" *COST D35 MEETING*, Angers, France, 21-22 June, **2010**.
26. "Assembling Metal Clusters into Discrete and Supramolecular Architectures" *WORKSHOP: "Current Trends and Perspectives in Inorganic Chemistry"* Conference and Cultural Centre of the University of Patras, Patras, Greece, 17 June, **2010**. (invited)
25. "Adventures in making polynuclear metal complexes and utilizing them as building blocks for the construction of discrete and infinite architectures" *Institut für Anorganische Chemie, Universität Karlsruhe*, Karlsruhe, Germany, 31 May, **2010**. (invited)
24. "Development of Synthetic Strategies for Molecular Materials" *Seminar, Department of Chemistry, National and Kapodistrian University of Athens*, Athens, Greece, May 10, **2010**.
23. "Supramolecular Chemistry of Magnetic Molecules and Single-Molecule Magnets" *COST D35 WORKSHOP*, Vavrona, Greece, 17-19 June, **2009**, one page in the book of abstracts.

22. "Inverting, Functionalizing and Designing Metal-Organic Frameworks" *2<sup>nd</sup> North-America-Greece-Cyprus Workshop on Paramagnetic Materials*, Syros, Greece, 18-21 June, **2007**, one page in the book of abstracts. (invited)
21. "Directing reactivity in the solid-state using linear templates" *School Colloquia, Department of Chemistry, University of Edinburgh*, UK, 27 April, **2007**. (invited)
20. "Manipulating Matter within Molecular Crystals: Phototunable Fluorescence of a Transition Metal Complex via a Single-Crystal-to-Single-Crystal Transformation" *3<sup>rd</sup> Conference of the Hellenic Crystallographic Association*, Patras, Greece, 22-24 September, **2006**, one page in the book of Abstracts. (invited)
19. "Discrete Versus Infinite Molecular Self-Assembly by Means of Halogen Substituents: Manipulating Matter in Crystalline Hydrogen-Bonded Assemblies Based on Resorcinol and Catechol" *International Meeting on the Progress of Halogen's Chemistry (HALCHEM-III)*, Ioannina, Greece, 28 June - 1 July, **2006**, one page in the book of Abstracts.
18. "Synthetic Strategies, Chemical Reactivity and Characterization of First Row Transition Metal Ion Clusters and Topochemically Controlled Photoreactions in the Solid-State Using Organic and Inorganic Linear Templates" *Department of Chemistry, University of Crete*, Herakleion, Greece, 23 October, **2005**.
17. "Synthetic Strategies, Chemical Reactivity and Characterization of First Row Transition Metal Ion Clusters and Topochemically Controlled Photoreactions in the Solid-State Using Organic and Inorganic Linear Templates" *Department of Chemistry, National and Kapodistrian University of Athens*, Athens, Greece, 17 March, **2005**.
16. "Linear Templates as a Means to Control Reactivity in the Solid-State: From Molecular and Target Orientated Synthesis to Materials and Molecular Switching Devices" *Department of Chemistry, Michigan State University*, East Lansing, MI, USA, 4 May, **2004**. (invited)
15. "Directing Reactivity in the Solid-State Using Linear Templates: From Molecular and Target-Orientated Synthesis to Materials and Molecular Switching Devices" *Chemistry Seminar Series, Department of Chemistry, University of Puerto Rico*, San Juan, PR, USA, 17 March, **2004**. (invited)

14. "Chemical Storage of H<sub>2</sub> within Crystalline Metal-Organic Frameworks" *Honda Initiation Grant 2003 Symposium*, Newport Beach, CA, USA, 18 November, **2003**.
13. "A Transition Metal Complex that Directs Reactivity in the Solid State via a Single-Crystal-to-Single-Crystal Transformation" *38<sup>th</sup> Midwest Regional Meeting of the American Chemical Society*, Columbia, Missouri, USA, 5-7 November, **2003**, p. 119 (Paper 71) in the book of Abstracts.
12. "A Transition Metal Complex as a Linear Template for Directing Reactivity in the Solid State" *Midwest Organic Solid State Chemistry Symposium*, Minneapolis, MN, USA, 6-7 June, **2003**.
11. "Manipulation of Matter at the Molecular Level Using Organic or Inorganic Templates" *Inorganic Seminar Series, Department of Chemistry, University of Iowa*, Iowa City, IA, USA, 16 April, **2003**.
10. "A Transition-Metal Complex as a Linear Template for Directing the Formation of C-C Bonds in the Solid State" *American Chemical Society, 225<sup>th</sup> National Meeting*, New Orleans, LA, USA, 23-27 March, **2003**, Abstract INOR 862.
9. "Porous Metal-Organic Frameworks with Cavities of Tunable Size and Shape Involving Organic Building Units Derived from the Solid State" *59<sup>th</sup> Southeast Regional Meeting of the American Chemical Society, SERMACS 2002*, Charleston, SC, USA, 13-16 November, **2002**, p.51 (paper 6) in the book of Abstracts.
8. "Inverted Metal Organic Frameworks Involving Organic Building Units Derived from the Solid State" *37<sup>th</sup> Midwest Regional Meeting of the American Chemical Society*, Lawrence, KS, USA, 23-25 October, **2002**, p. 124 (Paper 120) in the book of Abstracts.
7. "Polynuclear Metal Complexes Based on the Various Forms of Di-2-pyridyl Ketone and Benzotriazole: Synthesis Reactivity and Magnetic Properties" *Inorganic Seminar Series, Department of Chemistry, University of Iowa*, Iowa City, IA, USA, 25 September, **2002**.
6. "Inverted Metal-Organic Frameworks Based on Ligands Derived from Solid State Organic Synthesis: Synthesis, Characterization and Thermal Stability" *Seminar, Department of Chemistry, University of Patras*, Patras, Greece, 19 October, **2001**.

5. "Metal-Organic Frameworks with Organic Building Units Derived from the Solid State" *American Chemical Society, 222<sup>nd</sup> National Meeting*, Chicago, IL, USA, 26-30 August, **2001**, Abstract INOR 0528.
4. "Inverted Metal-Organic Networks Based on Ligands Derived from Solid State Organic Synthesis" *Midwest Organic Solid State Chemistry Symposium*, Lincoln, NE, USA, 8-9 June, **2001**.
3. "Polynuclear 3d-Metals Based on Azido Ligands and Various Forms of Di-2-Pyridyl Ketone" *XIIth Winter School on Coordination Chemistry*, Karpacz, Poland, 4-8 December, **2000**, p. 63 in the book of Abstracts.
2. "Coordination Polymers: Synthesis and Properties" *Seminar, Department of Chemistry, University of Patras*, Patras, Greece, 21 January, **2000**.
1. "Preparation, Structural Characterization and Preliminary Study of a Polymeric 2D Chloro Complex of Cu(II) with 2,1,3-benzothiadiazole (btd) as Ligand" *17<sup>th</sup> National Chemistry Conference of Greece*, Patras, Greece, 1-5 December, **1996**, pp. 278-281 in the Book of Proceedings.

#### **PRESENTATIONS AT CONFERENCES & RESEARCH SCHOOLS:**

154. Kotidis, P.; Fidelli, A.; Katsenis A.; Tarlas, G. D.; Papaefstathiou, G. S. "Using Mechanochemistry for MOF Synthesis" *Athens Summer School on Organic Synthesis 2022 (ASSOS 2022)*, 7-9 July, **2022**, Athens, Greece. One page in the book of abstracts. Talk. (P.K.)
153. Papaefstathiou, G. S.; Tarlas, G. D.; Moutzouris, N.; Plessas, A. K.; Oikonomopoulos, P.; Kotidis, P.; Mavridou, E.; Zisimopoulou, D.; Vagiakos, I. "Amide based ligands for the synthesis of new Metal-Organic Frameworks" *Athens Conference on Advances in Chemistry (acac2022)*, 26<sup>th</sup> June – 1<sup>st</sup> July, **2022**, Athens, Greece. One page in the book of abstracts. Poster Presentation.
152. Moushi, E. E.; Kourtellaris, A.; Andreou, E.; Fidelli, A.; Papaefstathiou, G. S.; Plakatouras, J. C.; Tasiopoulos, A. J. "New metal-organic frameworks derived from pyridine-3,5-dicarboxylic

- acid: structural diversity arising from the addition of templates into the reaction systems” *Athens Conference on Advances in Chemistry (acac2022)*, 26<sup>th</sup> June – 1<sup>st</sup> July, **2022**, Athens, Greece. One page in the book of abstracts. Poster Presentation.
151. Kolliniati, E.; Kourmousi, M.; Moutzouris, N.; Papaefstathiou, G. S.; Mitsopoulou, C. “Photocatalytic and Electrocatalytic Hydrogen Evolution Through A trans-Oxalamide-Nickel Complex” *Athens Conference on Advances in Chemistry (acac2022)*, 26<sup>th</sup> June – 1<sup>st</sup> July, **2022**, Athens, Greece. One page in the book of abstracts. Poster Presentation.
150. Kotidis, P.; Kourtellaris, A.; Tasiopoulos, A.; Papaefstathiou, G. S. “MOF synthesis using Schiff base Metallo-Ligands” *Athens Conference on Advances in Chemistry (acac2022)*, 26<sup>th</sup> June – 1<sup>st</sup> July, **2022**, Athens, Greece. One page in the book of abstracts. Poster Presentation.
149. Oikonomopoulos, P.; Papaefstathiou, G. S. “Two novel porous MOFs based on 3d transition metal ions, Synthesis and Post Modification” *Athens Conference on Advances in Chemistry (acac2022)*, 26<sup>th</sup> June – 1<sup>st</sup> July, **2022**, Athens, Greece. One page in the book of abstracts. Poster Presentation.
148. Vagiakos, I. Papaefstathiou, G. S. “[M<sub>5</sub>(NO<sub>3</sub>)<sub>4</sub>(btz)<sub>6</sub>], M=Co, Ni type clusters as precursors for rational MOF synthesis” *Athens Conference on Advances in Chemistry (acac2022)*, 26<sup>th</sup> June – 1<sup>st</sup> July, **2022**, Athens, Greece. One page in the book of abstracts. Poster Presentation.
147. Plessas, A. K.; Pagkali, V.; Kritikou, E.; Panara, A.; Economou, A.; Thomaidis, N. S.; Kokkinos, C.; Papaefstathiou, G. S. “MOF-74 Analogues and Cu(II) compounds as electrode modifiers for the electrochemical detection of glucose in human perspiration and / or glucose sorption” *Athens Conference on Advances in Chemistry (acac2022)*, 26<sup>th</sup> June – 1<sup>st</sup> July, **2022**, Athens, Greece. One page in the book of abstracts. Talk. (A.K.P.)
146. Koukouviti, H.; Plessas, A. K.; Economou, A.; Thomaidis, N.; Papaefstathiou, G. S.; Kokkinos, C. “3D-printed electrochemical device modified with Fe(II)-MOF for glucose monitoring in sweat” *18<sup>th</sup> International Conference on Electroanalysis (ESEAC 2022)*, 5-9 June, **2022**, Vilnius, Lithuania. One page in the book of abstracts. Poster Presentation.
145. Papaefstathiou, G. S.; Thomaidis, N.; Kokkinos, C.; Economou, E.; Raptis, I.; Christianidis, V. “Fabrication of a low-cost portable potentiostat as a detection module for electrochemical

- paper-based devices” *18<sup>th</sup> International Conference on Electroanalysis (ESEAC 2022)*, 5-9 June, **2022**, Vilnius, Lithuania. One page in the book of abstracts. Poster Presentation.
144. Papaefstathiou, G. S.; Tarlas, G. D.; Moutzouris, N.; Plessas, A. K.; Oikonomopoulos, P.; Kotidis, P.; Mavridou, E.; Zisimopoulou, D.; Vagiakos, I. “Metal-Organic Frameworks based on bis and tris-amide organic ligands” *9<sup>th</sup> North America-Greece-Cyprus Conference on Paramagnetic Materials (NAGC2022)*, Ayia Napa, Cyprus, 9-13 May, **2022**. Page 60 in the book of abstracts. Talk. (G.S.P.)
143. Plessas, A. K.; Pagkali, V.; Kritikou, E.; Panara, A.; Economou, A.; Thomaidis, N. S.; Kokkinos, C.; Papaefstathiou, G. S. “MOF-74 Analogues and Cu(II) compounds as electrode modifiers for the electrochemical detection of glucose in human perspiration and / or glucose sorption” *9<sup>th</sup> North America-Greece-Cyprus Conference on Paramagnetic Materials (NAGC2022)*, Ayia Napa, Cyprus, 9-13 May, **2022**. Page 65 in the book of abstracts. Talk. (A.K.P.)
142. Oikonomopoulos, P.; Papaefstathiou, G. S. “Synthesis, characterization and potential applications of new oxalamide-based MOFs with 3d Transition Metal ions” *9<sup>th</sup> North America-Greece-Cyprus Conference on Paramagnetic Materials (NAGC2022)*, Ayia Napa, Cyprus, 9-13 May, **2022**. Page 58 in the book of abstracts. Talk. (P.O.)
141. Zisimopoulou, D.; Papaefstathiou, G. S. “Ce<sup>IV</sup> – amino-acid clusters as starting materials for the synthesis of UiO-66 analogues” *1<sup>st</sup> Symposium of Graduate Students of the Chemistry Department, NKUA*, 17-18 March, **2022**, Athens, Greece. One page in the book of abstracts. Poster Presentation.
140. Mavridou, E. A.; Tarlas, G. D.; Kotidis, P.; Papaefstathiou, G. S. “Removal of Cr(VI) ions from water using Metal-Organic Frameworks” *1<sup>st</sup> Symposium of Graduate Students of the Chemistry Department, NKUA*, 17-18 March, **2022**, Athens, Greece. One page in the book of abstracts. Poster Presentation.
139. Plessas, A. K.; Colleta, M.; Brechin, E. K.; Andreou, E.; Papaefstathiou, G. S. “Carboxylic Salicylaldoxime: A ligand with a double role in the synthesis of Metal Clusters and Metal-Organic Frameworks” *1<sup>st</sup> Symposium of Graduate Students of the Chemistry Department, NKUA*, 17-18 March, **2022**, Athens, Greece. One page in the book of abstracts. Talk. (A.K.P.)



138. Kotidis, P.; Fidelli, A.; Katsenis A.; Tarlas, G. D.; Papaefstathiou, G. S. "Mechanochemically synthesized MOFs presenting superior sorption ability" *1<sup>st</sup> Symposium of Graduate Students of the Chemistry Department, NKUA*, 17-18 March, **2022**, Athens, Greece. One page in the book of abstracts. Talk. (P.K.)
137. Oikonomopoulos, P.; Papaefstathiou, G. S. "Synthesis, characterization and potential applications of new oxalamide-based MOFs with 3d Transition Metal ions" *1<sup>st</sup> Symposium of Graduate Students of the Chemistry Department, NKUA*, 17-18 March, **2022**, Athens, Greece. One page in the book of abstracts. Talk. (P.O.)
136. Koukouviti, H.; Vasileiou, F.; Plessas, A. K.; Economou, A.; Thomaidis, N.; Papaefstathiou, G. S.; Kokkinos, C. "3D Printed Voltammetric Sensor Modified with an Fe(III) Cluster for Nonenzymatic Determination of Glucose in Sweat" *12<sup>th</sup> International Conference on Instrumental Analysis Modern Trends and Applications (IMA-2021)*, 20-23 September, **2021**, Virtual Event. Page 196 in the book of abstracts. Poster Presentation.
135. Plessas, A. K.; Papaefstathiou, G. S. "MOF-74 Analogues for glucose sorption and/or electrode modifiers for the electrochemical detection of glucose in human perspiration" *Athens Conference on Advances in Chemistry (acac2020)*, 10-14 March, **2021**, Athens, Greece. One page in the book of abstracts. Talk. (A.K.P.)
134. Oikonomopoulos, P.; Papaefstathiou, G. S. "A new oxalamide-based 3D Fe-MOF for potential glucose sorption and electrochemical detection in human perspiration via electrode modification" *Athens Conference on Advances in Chemistry (acac2020)*, 10-14 March, **2021**, Athens, Greece. One page in the book of abstracts. Talk. (P.O.)
133. Tarlas, G. D. Papaefstathiou, G. S. "Post-synthetic modified MOFs for water remediation applications" *Athens Conference on Advances in Chemistry (acac2020)*, 10-14 March, **2021**, Athens, Greece. One page in the book of abstracts. Talk. (G.D.T.)
132. Fidelli, A. M.; Katsenis, A. D.; Papaefstathiou, G. S. "Mechanochemical synthesis of sustainable amide functionalized MOFs for water remediation – "SAFeMOFs"" *Athens Conference on Advances in Chemistry (acac2020)*, 10-14 March, **2021**, Athens, Greece. One page in the book of abstracts. Talk. (A.M.F)

131. Pournara A. D.; Margariti A.; Papaefstathiou G. S.; Manos M. J. "A Ca<sup>2+</sup> MOF Combining Highly Efficient Sorption and Capability for Voltammetric Determination of Heavy Metal Ions in Aqueous Media" *Beilstein Nanotechnology Symposium 2019, New Directions for Nanoporous Materials*, 12-14 November, **2019**, Rüdesheim, Germany. Page 77 (P15) in the book of abstracts. Poster Presentation.
130. Moushi E. E.; Andreou E.; Kourtellaris A.; Plakatouras J. C.; Papaefstathiou G. S.; Tasiopoulos A. J. "New Metal Organic Frameworks Derived from the Combination of pyridine-3,5-dicarboxylic acid and Amino or Pyridine-Alcohols" *13<sup>th</sup> Cyprus Greece Chemistry Conference*, 31 October - 3 November, **2019**, Nicosia, Cyprus. P73 in the book of abstracts. Poster Presentation.
129. Kourtellaris A.; Moushi E.; Spanopoulos I.; Trikalitis P. N.; Pissas M.; Papaefstathiou G. S.; Sanakis Y.; Tasiopoulos A. J. "A Microporous Co(II) - Based 3-D Metal Organic Framework Built From Magnetic Infinite Rod-Shaped Secondary Building Units" *13<sup>th</sup> Cyprus Greece Chemistry Conference*, 31 October - 3 November, **2019**, Nicosia, Cyprus. P65 in the book of abstracts. Poster Presentation.
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61. Hamilton T. D.; Papaefstathiou G. S.; Chu, Q.; MacGillivray, L. R. "Solid-State Synthesis Enables Construction of a Polyfunctional Ligand that Gives Rise to Metal-Organic Polygons and Polyhedra" *39<sup>th</sup> Midwest Regional Meeting of the American Chemical Society*, Manhattan, KS, USA, 20-22 October, **2004**, one page in the book of Abstracts, Talk. (T.D.H.)
60. MacGillivray L. R.; Friscic T.; Varshney D. B.; Hamilton T. D.; Chu Q.; Papaefstathiou G. S. "Linear Templates: Tools for Assembling and Constructing Molecules in Crystalline Solids" *39<sup>th</sup> Midwest Regional Meeting of the American Chemical Society*, Manhattan, KS, USA, 20-22 October, **2004**, one page in the book of Abstracts, Talk. (L.M.R.)
59. Georgiev I. G.; Papaefstathiou G. S.; MacGillivray L. R. "Metal-Organic Templates that Direct Reactivity in the Solid State" *39<sup>th</sup> Midwest Regional Meeting of the American Chemical Society*, Manhattan, KS, USA, 20-22 October, **2004**, one page in the book of Abstracts, Poster Presentation.

58. MacGillivray L. R.; Papaefstathiou G. S.; Hamilton T. D.; Friscic T. "Template-Controlled Reactivity in the Solid State" *60<sup>th</sup> Southwest Regional Meeting of the American Chemical Society*, Fort Worth, TX, USA, 29 September - 4 October, **2004**, one page in the book of Abstracts, Talk. (L.M.R.)
57. Hamilton T. D.; Papaefstathiou G. S.; Chu Q.; MacGillivray L. R. "Polygonal and Polyhedral Assemblies that Arise from an Unsymmetrical Polydentate Ligand Constructed in the Solid State" *American Chemical Society, 228<sup>th</sup> National Meeting*, Philadelphia, PA, USA, 22-26 August, **2004**, Abstract INOR 271, Talk. (T.D.H.)
56. Mertzenich C. L.; Papaefstathiou G. S.; Friscic T.; Swenson D. C.; MacGillivray L. R. "Systematic Decoration and Physico-Chemical Characterization of Inverted Metal-Organic Frameworks" *American Chemical Society, 228<sup>th</sup> National Meeting*, Philadelphia, PA, USA, 22-26 August, **2004**, Abstract INOR 270, Talk. (C.L.M.)
55. MacGillivray L. R.; Papaefstathiou G. S.; Friscic T.; Hamilton T. D.; Varshney D. B. "Covalent Capture of Supramolecular Architecture in the Solid State Using Linear Templates" *American Chemical Society, 228<sup>th</sup> National Meeting*, Philadelphia, PA, USA, 22-26 August, **2004**, Abstract ORGN 307, Talk. (L.R.M.)
54. Hamilton T. D.; Papaefstathiou G. S.; Chu Q.; MacGillivray L. R. "Polygonal and Polyhedral Assemblies Derived from an Organic Building Unit Constructed in the Solid State" *36<sup>th</sup> International Conference on Coordination Chemistry*, Merida-Yucatan, Mexico, July 18-23, **2004**, p. 169 (Paper O 2.33) in the book of Abstracts, Talk. (H.T.D.)
53. Georgiev I. G.; Papaefstathiou G. S.; MacGillivray L. R. "A Metal-Organic Complex that Directs Reactivity in the Solid State based on Coordination-Driven Self-Assembly" *Midwest Organic Solid State Chemistry Symposium*, Carbondale, IL, USA, June 4-6, **2004**, one page in the book of Abstracts, Poster Presentation.
52. Hamilton T. D.; Papaefstathiou G. S.; MacGillivray L. R. "A Multimodal Ligand Constructed in the Solid State that Gives Rise to Polygons and Polyhedra" *Midwest Organic Solid State Chemistry Symposium*, Carbondale, IL, USA, June 4-6, **2004**, one page in the book of Abstracts, Talk. (H.T.D.)

51. Mertzenich C. L.; Papaefstathiou G. S.; MacGillivray L. R. "Inverted Metal-Organic Frameworks Derived from Linear Templates and the Solid State" *Midwest Organic Solid State Chemistry Symposium*, Carbondale, IL, USA, June 4-6, **2004**, one page in the book of Abstracts, Talk. (M.C.L.)
50. Mertzenich C. L.; Papaefstathiou G. S.; MacGillivray L. R. "Systematic organic functionalization of the interior spaces of an inverted metal-organic framework" *American Chemical Society, 227<sup>th</sup> National Meeting*, Anaheim, CA, USA, 28 March - 1 April, **2004**, Abstract INOR 028, Poster Presentation.
49. Stamatatos Th.; Papaefstathiou G. S.; MacGillivray L. R.; Perlepes S. P. "Coordination Chemistry based on Ligands Derived from Solid-State Organic Chemistry", *1<sup>st</sup> Greek Conference on Green Chemistry and Sustainable Development*, Athens, 27-28 February **2004**, p. 55 in the Book of Abstracts, Poster Presentation.
48. Papaefstathiou G. S.; MacGillivray L. R. "Towards Molecular Assemblers" *Nanotech@UI Symposium of Nanoscience and Nanotechnology at The University of Iowa*, Iowa City, IA, 12 November, **2003**, Poster Presentation.
47. Hamilton T. D.; Papaefstathiou G. S.; MacGillivray L. R. "Exterior Chiral Modification of a Metal-Organic Polyhedral Host" *Nanotech@UI Symposium of Nanoscience and Nanotechnology at The University of Iowa*, Iowa City, IA, 12 November, **2003**, Poster Presentation.
46. Mertzenich C. L.; Papaefstathiou G. S.; MacGillivray L. R. "Supramolecular Design Employing Inverted Metal-Organic Frameworks" *Nanotech@UI Symposium of Nanoscience and Nanotechnology at The University of Iowa*, Iowa City, IA, 12 November, **2003**, Poster Presentation.
45. MacGillivray L. R.; Papaefstathiou G. S.; Friscic T.; Varshney D. B.; Hamilton T. D.; Chu Q. "Linear Templates: Tools for Directing Reactivity in the Solid State" *38<sup>th</sup> Midwest Regional Meeting of the American Chemical Society*, Columbia, MO, USA, 5-7 November, **2003**, p. 268 (Paper 366) in the book of Abstracts, Talk. (L.R.M.)
44. Georgiev I. G.; Papaefstathiou G. S.; MacGillivray L. R. "Bifunctional Metal-Organic Templates that Direct Reactivity in the Solid State" *38<sup>th</sup> Midwest Regional Meeting of the American*

- Chemical Society*, Columbia, MO, USA, 5-7 November, **2003**, p. 195 (Paper 214) in the book of Abstracts, Poster Presentation.
43. Mertenich C. L.; Papaefstathiou G. S.; MacGillivray L. R. "Systematic Functionalization of the Interior Spaces of Inverted Metal-Organic Frameworks" *38<sup>th</sup> Midwest Regional Meeting of the American Chemical Society*, Columbia, MO, USA, 5-7 November, **2003**, p. 156 (Paper 144) in the book of Abstracts, Talk. (C.L.M.)
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  41. Varshney D. B.; Papaefstathiou G. S.; MacGillivray L. R. "Template-Directed Solid-State Synthesis of a Polyhedral Molecule" *The 39<sup>th</sup> IUPAC and the 86<sup>th</sup> Conference of the Canadian Society for Chemistry*, Ottawa, Canada, 10-15 August, **2003**, p. 273 (Paper OR.10.P087) in the book of Abstracts, Poster Presentation.
  40. MacGillivray L. R.; Papaefstathiou G. S.; Varshney D. B.; Friscic T. "Supramolecular Control of Reactivity Using Linear Templates" *The 39<sup>th</sup> IUPAC and the 86<sup>th</sup> Conference of the Canadian Society for Chemistry*, Ottawa, Canada, 10-15 August, **2003**, p. 260 (Paper OR.10.007) in the book of Abstracts, Talk. (L.R.M.)
  39. Papaefstathiou G. S.; MacGillivray L. R. "Controlling the Formation of C-C Bonds in Molecular Solids Using Transition Metal Complexes as Linear Templates" *The 39<sup>th</sup> IUPAC and the 86<sup>th</sup> Conference of the Canadian Society for Chemistry*, Ottawa, Canada, 10-15 August, **2003**, p. 77 (Paper IN.1.P039) in the book of Abstracts, Poster Presentation.
  38. Chu, Q. L.; Papaefstathiou G. S.; Hamilton T. D.; Atkinson, M. B. J.; MacGillivray L. R. "Metal-Organic Squares Constructed via Linear Templates" *The 39<sup>th</sup> IUPAC and the 86<sup>th</sup> Conference of the Canadian Society for Chemistry*, Ottawa, Canada, 10-15 August, **2003**, p. 74 (Paper IN.1.P024) in the book of Abstracts, Poster Presentation.
  37. Hamilton T. D.; Papaefstathiou G. S.; MacGillivray L. R. "Supramolecular Exterior Modification of a Polyhedral Metal-Organic Host Derived from a Synthetic Linear Template" *The 39<sup>th</sup>*

- IUPAC and the 86<sup>th</sup> Conference of the Canadian Society for Chemistry, Ottawa, Canada, 10-15 August, 2003*, p. 73 (Paper IN.1.014) in the book of Abstracts, Talk. (T.D.H.)
36. Varshney D. B.; Papaefstathiou G. S.; MacGillivray L. R. "Supramolecular Construction of a Molecular Polyhedron in the Solid-State Using Linear Templates" *Midwest Organic Solid State Chemistry Symposium*, Minneapolis, MN, USA, 6-7 June, **2003**, one page in the book of Abstracts, Talk. (D.B.V.)
  35. Chu, Q. L.; Papaefstathiou G. S.; Hamilton T. D.; Atkinson, M. B. J.; MacGillivray L. R. "A Metal-Organic Square Constructed Using a Linear Template" *Midwest Organic Solid State Chemistry Symposium*, Minneapolis, MN, USA, 6-7 June, **2003**, one page in the book of Abstracts, Talk. (C.Q.L.)
  34. Hamilton T. D.; Papaefstathiou G. S.; MacGillivray L. R. "A Supramolecular Route to Exterior Modification of a Polyhedral Host Derived from a Template-Directed Solid-State Synthesis" *Midwest Organic Solid State Chemistry Symposium*, Minneapolis, MN, USA, 6-7 June, **2003**, one page in the book of Abstracts, Poster Presentation.
  33. Varshney D. B.; MacGillivray L. R.; Papaefstathiou G. S. "Toward Polyhedral Molecules in Template-Directed Solid-State Synthesis" *American Chemical Society, 225<sup>th</sup> National Meeting*, New Orleans, LA, USA, 23-27 March, **2003**, Abstract ORGN 673, Talk. (L.R.M.)
  32. MacGillivray L. R.; Friscic T.; Papaefstathiou G. S.; Varshney D. "Supramolecular Control of Reactivity Using Linear Templates" *American Chemical Society, 225<sup>th</sup> National Meeting*, New Orleans, LA, USA, 23-27 March, **2003**, Abstract ORGN 672, Talk. (D.B.V.)
  31. MacGillivray L. R.; Hamilton T. D.; Papaefstathiou G. S. "Chemical Modification of the Outer Surface of a Polyhedral Host Derived from a Synthetic Linear Template" *American Chemical Society, 225<sup>th</sup> National Meeting*, New Orleans, LA, USA, 23-27 March, **2003**, Abstract INOR 47, Talk. (T.D.H.)
  30. MacGillivray L. R.; Milios C. J.; Papaefstathiou G. S. "Layered Metal-Organic Frameworks Based on a Ligand Derived from a Template-Directed Solid-State Organic Synthesis" *American Chemical Society, 225<sup>th</sup> National Meeting*, New Orleans, LA, USA, 23-27 March, **2003**, Abstract INOR 369, Poster Presentation.



29. MacGillivray L. R.; Chu, Q.; Papaefstathiou G. S.; Hamilton T. D.; Atkinson, M. B. J. "A Metal-Organic Square Constructed Using a Linear Template" *American Chemical Society, 225<sup>th</sup> National Meeting*, New Orleans, LA, USA, 23-27 March, **2003**, Abstract INOR 889, Talk. (L.R.M.)
28. MacGillivray L. R.; Papaefstathiou G. S.; Hamilton T. D.; Friscic T.; Varshney D. "Supramolecular Control of Reactivity in the Solid State Using Linear Templates" *59<sup>th</sup> Southeast Regional Meeting of the American Chemical Society, SERMACS 2002*, Charleston, SC, USA, 13-16 November, **2002**, p.51 (Paper 5) in the book of Abstracts. Talk. (L.R.M.)
27. MacGillivray L. R.; Papaefstathiou G. S.; Varshney D.; Hamilton T. D.; Friscic T. "Template-Directed Solid-State Organic Synthesis" *37<sup>th</sup> Midwest Regional Meeting of the American Chemical Society*, Lawrence, KS, USA, 23-25 October, **2002**, p. 162 (Paper 193) in the book of Abstracts, Talk. (L.R.M.)
26. Hamilton T. D.; Papaefstathiou G. S.; MacGillivray L. R. "Template-Directed Synthesis of a Polyhedral Host" *37<sup>th</sup> Midwest Regional Meeting of the American Chemical Society*, Lawrence, KS, USA, 23-25 October, **2002**, p. 123 (Paper 117) in the book of Abstracts, Talk. (T.D.H.)
25. Varshney D. B.; Papaefstathiou G. S.; MacGillivray L. R. "Regiocontrol of Reactivity in Molecular Solids Using Linear Templates" *Biocatalysis and Bioprocessing Conference*, Iowa City, IA, USA, 21-23 October, **2002**, p. 79 (PN 52) in the book of Abstracts, Poster Presentation.
24. Papaefstathiou G. S.; MacGillivray L. R. "Organic Molecules Synthesized Using Linear Templates Serve as Building Units for the Construction of Porous Metal-Organic Solids" *Biocatalysis and Bioprocessing Conference*, Iowa City, IA, USA, 21-23 October, **2002**, p. 60 (PN 33) in the book of Abstracts, Poster Presentation.
23. Hamilton T. D.; Papaefstathiou G. S.; MacGillivray L. R. "Toward Mimicry of the Synthesis Paradigm of DNA: A Polyhedral Host Derived from a Linear Template" *Biocatalysis and Bioprocessing Conference*, Iowa City, IA, USA, 21-23 October, **2002**, p. 20 (PN 13) in the book of Abstracts, Poster Presentation.

22. Papaefstathiou G. S.; MacGillivray L. R. "Application of a Template-Directed Solid-State Organic Synthesis: Porous Metal-Organic Frameworks with Walls Decorated with Convergent Functionality" *Gordon Research Conference on Solid State Chemistry*, New London, NH, USA, 28 June - 2 August, **2002**, Poster Presentation.
21. MacGillivray L. R.; Hamilton T. D.; Papaefstathiou G. S. "Application of a Solid-State Synthesis: A Polyhedral Host Constructed Using a Linear Template" *Gordon Research Conference on Solid State Chemistry*, New London, NH, USA, 28 June - 2 August, **2002**, Poster Presentation.
20. Hamilton T. D.; Papaefstathiou G. S.; MacGillivray L. R. "A Solid-State Synthesis Enables the Construction of a Polyhedral Host" *Midwest Organic Solid State Chemistry Symposium*, Iowa City, IA, USA, 7-8 June, **2002**, one page in the book of Abstracts, Talk. (T.D.H.)
19. MacGillivray L. R.; Hamilton T. D.; Papaefstathiou G. S. "A Polyhedral Host Designed Using a Linear Template" *American Chemical Society, 223<sup>rd</sup> National Meeting*, Orlando, FL, USA, 7-1 April, **2002**, Abstract INOR 59, Poster Presentation.
18. MacGillivray L. R.; Papaefstathiou G. S.; Varshney D. B. "Template-directed Organic Synthesis: Using Molecules to Build Molecules by Design" *American Chemical Society, 223<sup>rd</sup> National Meeting*, Orlando, FL, USA, 7-1 April, **2002**, Abstract ORGN 180, Talk. (L.R.M.)
17. MacGillivray L. R.; Papaefstathiou G. S. "Controlling Formation of C-C Bonds in Molecular Solids by Design" *American Chemical Society, 222<sup>nd</sup> National Meeting*, Chicago, IL, USA, 26-30 August, **2001**, Abstract INOR 0526, Talk. (L.R.M.)
16. Catsoulakou E.; Papaefstathiou G. S.; Raptopoulou C. P.; Terzis A.; Gerothanassis I.; Pairas G.; Perlepes S. P.; Manesi-Zoupa E. "Reactions of Zn(II) and Cd(II) Salts with Di-2-pyridyl Ketone: Insights into the Role of Zn(II) Sites in Hydrolytic Enzymes and the Employment of Cd(II) as a Probe of Zn(II) in Biomolecules" *6<sup>th</sup> France, Italy, Greece, Israel, Portugal, Spain Meeting in Inorganic Chemistry (6<sup>th</sup> FIGIPS)*, Barcelona, Spain, 15-20 July, **2001**, p. 392 (PC.070) in the book of Abstracts, Poster Presentation.
15. MacGillivray L. R.; Papaefstathiou G. S.; Kipp A. J. "Controlling Reactivity in the Solid State Using Linear Templates" *Midwest Organic Solid State Chemistry Symposium*, Lincoln, NV, USA, 8-9 June, **2001**, one page in the book of Abstracts, Talk. (L.R.M.)

14. Escuer A.; Vicente R.; Mautner F. A.; Perlepes S. P.; Papaefstathiou G. S. "Modulation of the Magnetic Properties, by Using the Azido Ligand, in Clusters and High Dimensionality Systems" *9<sup>a</sup> Reunión Científica Plenaria de Química Inorgánica*, Bilbao, Spain, 5-8 September, **2000**, one page in the book of Abstracts, Talk. (A.E.)
13. Papaefstathiou G. S.; Vicente R.; Escuer A.; Raptopoulou C. P.; Terzis A.; Perlepes S. P. "A Family of Nonanuclear Metal Complexes Based on Di-2-Pyridyl Ketone: Synthesis, Structures and Magnetic Properties" *EURESCO Conference on "Design and Properties of Low Nuclearity Metal Complexes, Achievements and Challenges of Organometallic Chemistry and Homogeneous Catalysis"*, San Feliu de Guixols, Spain, 2-7 September, **2000**, one page in the book of Abstracts, Poster Presentation (Poster 1I).
12. Raptopoulou C. P.; Psycharis V.; Gantis A.; Papaefstathiou G. S.; Perlepes S. P. "Copper(I) and Copper(II) Halogeno Polymers with 2,1,3-benzothiazole: Variation of 1D and 2D Polymeric Structures as a Function of Reaction Conditions" *19<sup>th</sup> European Crystallographic Meeting*, Nancy, France, 25-31 August, **2000**, p. 33 in the book of Abstracts, Poster Presentation. *Acta Crystallographica* **2000**, A56 (Supplement), s332.
11. Perlepes S. P.; Papaefstathiou G. S.; Raptopoulou C. P.; Terzis A. "Reactivity of Polynuclear Transition Metal Complexes: Controlled Substitution of Benzotriazole Ligands by Halogenide Ions in Pentanuclear Copper(II) Complexes" *34<sup>th</sup> International Conference on Coordination Chemistry*, Edinburgh, UK, 9-14 July, **2000**, p. L183 in the book of Abstracts, Talk. (S.P.P.)
10. Papaefstathiou G. S.; Vicente R.; Escuer A.; Raptopoulou C. P.; Terzis A.; Perlepes S. P. "Polynuclear Metal Complexes Based on Di-2-pyridyl Ketone: Synthesis, Structures, Reactivity and Magnetic Properties" *34<sup>th</sup> International Conference on Coordination Chemistry*, Edinburgh, UK, 9-14 July, **2000**, p. P0097 in the book of Abstracts, Poster Presentation.
9. Papaefstathiou G. S.; Raptopoulou C. P.; Tsohos A.; Terzis A.; Bakalbassis E. G.; Perlepes S. P. "A Family of Novel Planar Pentanuclear Copper(II) Complexes Stabilized by  $(py)_2CO(OR)CO(OR)^{2-}$  and Carboxylate Ligands (py=2-pyridyl; R=Et, Pr<sup>n</sup>)" *34<sup>th</sup> International Conference on Coordination Chemistry*, Edinburgh, UK, 9-14 July, **2000**, p. P0096 in the book of Abstracts, Poster Presentation.

8. Catsoulakou E. ; Papaefstathiou G. S.; Angeli A. ; Raptopoulou C. P. ; Terzis A.; Perlepes S. P.; Manessi-Zoupa E. "An Investigation of Zn(II) Sites in Hydrolytic Enzymes Using a Bioinorganic Model Compound Approach" *2<sup>nd</sup> International Conference of the Chemical Societies of the South-Eastern European Countries on Chemical Sciences for Sustainable Development*, Halkidiki, Greece, 6-9 June, **2000**, p.211 in the book of Abstracts, Vol.1, Poster Presentation.
7. Papaefstathiou G. S.; Tangoulis V.; Tsohos A.; Raptopoulou C. P.; Terzis A.; Perlepes S. P. "3d-Metal Coordination Polymers Based on 2,1,3-benzothiadiazole" *5<sup>th</sup> France, Greece, Italy, Portugal, Spain Meeting in Inorganic Chemistry (5<sup>th</sup> FGIPS)*, Toulouse, France, 26-31 October, **1999**, p. PC25 in the book of Abstracts, Poster Presentation.
6. Papaefstathiou G. S.; Raptopoulou C. P.; Terzis A.; Perlepes S. P. "Controlled Substitution of Benzotriazolate Ligands by Halogenide Ions in Hexakis(benzotriazolato)tetrakis( $\beta$ -diketonato)pentacopper(II) Complexes" *5<sup>th</sup> France, Greece, Italy, Portugal, Spain Meeting in Inorganic Chemistry (5<sup>th</sup> FGIPS)*, Toulouse, France, 26-31 October, **1999**, p. PA76 in the book of Abstracts, Poster Presentation.
5. Papaefstathiou G. S.; Raptopoulou C. P.; Terzis A.; Perlepes S. P. "Preparation and Characterization of Copper(I) and Copper(II) Coordination Polymers Based on Halogeno Ligands and 2,1,3-benzothiadiazole" *International School of Crystallography, 28<sup>th</sup> Course "Crystal Engineering: From Molecules and Crystals to Materials"*, Erice, Italy, 12-23 May, **1999**, p. P40 in the book of Short Talks and Poster Abstracts, Poster Presentation.
4. Papaefstathiou G. S.; Skorda K.; Tsohos A.; Raptopoulou C. P.; Terzis A.; Bakalbassis E. G.; Perlepes S. P. "Copper(II) and Copper(I) Complexes of the Antimicrobial Compound 2,1,3-benzothiadiazole" *5<sup>th</sup> International Symposium on Applied Bioinorganic Chemistry*, Corfu, Greece, 13-17 April, **1999**, p. 167 in the book of Abstracts, Poster Presentation.
3. Papaefstathiou G. S.; Tsohos A.; Raptopoulou C. P.; Terzis A.; Bakalbassis E. G.; Perlepes S. P. "Planar Pentanuclear Copper(II) Complexes" *1<sup>st</sup> International Conference of the Chemical Societies of the South-East European Countries*, Halkidiki, Greece, 1-4 June, **1998**, p. PO105 in the book of Abstracts, Vol. I, Poster Presentation.
2. Papaefstathiou G. S.; Tangoulis V.; Tsohos A.; Skorda K.; Raptopoulou C. P.; Terzis A.; Bakalbassis E. G.; Perlepes S. P. "Cu(I) and Cu(II) Complexes of 2,1,3-benzothiadiazole" *4<sup>th</sup>*

France, Greece, Italy, Portugal, Spain Meeting in Inorganic Chemistry (4<sup>th</sup> FGIPS), Corfu, Greece, 14-18 October, **1997**, p. PA 67 in the book of Abstracts, Poster Presentation.

1. Papaefstathiou G. S.; Perlepes S. P.; Raptopoulou C. P.; Terzis A.; De Beukeleer S.; Desseyn H. O. "Pd(II) and Pt(II) Complexes of Monothiomalonamide" *17<sup>th</sup> National Chemistry Conference of Greece*, Patras, Greece, 1-5 December, **1996**, pp. 322-325 in the Book of Proceedings, Poster Presentation.

#### **WORKSHOPS & ADVANCED TRAINING COURSES:**

- Theoretical Aspects of Design of Periodic Materials, Centre Européen de Calcul Atomique et Moléculaire (CECAM), Lyon, France, 19-20 July **2007**.
- Simulation, Design and Crystal Engineering of Metal-Organic Frameworks, Centre Européen de Calcul Atomique et Moléculaire (CECAM), Lyon, France, 16-18 July **2007**.
- A NATO Advanced Study Institute and a Euroconference: International School of Crystallography, 28<sup>th</sup> Course "Crystal Engineering: From Molecules and Crystals to Materials", Erice, Italy, May 12-23, **1999**.
- Development of Management and Communication Skills, University of Patras, Department of Chemistry, Patras, Greece, July 7-14, **1999**.

#### **OTHER PROFESSIONAL and ADMINISTRATIVE ACTIVITIES:**

- 2013-today: Editorial Board Member: Journal of Coordination Chemistry (Taylor & Francis).
- 2007-today: Reviewer/evaluator for research programs: [ACENET ERA-NET (EU), e-GAP (Royal Society of Chemistry, UK), EPSRC (Engineering and Physical Sciences Research Council, UK), Petroleum Foundation (USA), RPF (Cyprus), GSRT (Greece), IKY (Greece)].
- 2007-today: Reviewer for Scientific Journals:

Τίτλος Περιοδικού	Number of papers	
		verified by publons
ACS Applied Nano Materials	1	1
ACS Omega	1	1
Bioinorganic Chemistry and Applications	10	9
Chemical Communications	65	63
Chemical Science	1	1
Chemistry A European Journal	1	1
Chemistry Letters	1	1

Crystal Growth & Design	16	15
Crystals	2	2
CrystEngComm	95	95
Dalton Transactions	95	95
European Journal of Inorganic Chemistry	2	2
Frontiers in Chemistry	1	1
Inorganic Chemistry	33	30
Inorganic Chemistry Communications	15	14
Inorganic Chemistry Frontiers	1	1
Inorganica Chimica Acta	4	4
International Journal of Analytical Chemistry	1	1
Journal of Chemical Crystallography	1	1
Journal of Cluster Science	1	1
Journal of Coordination Chemistry	63	42
Journal of Hazardous Materials	2	2
Journal of Inclusion Phenomena	6	2
Journal of Inclusion Phenomena and Macrocyclic Chemistry	3	3
Journal of Inorganic Biochemistry	1	1
Journal of Materials Chemistry	2	1
Journal of Materials Chemistry A	2	2
Journal of Organometallic Chemistry	1	1
Journal of Solid State Chemistry	2	2
Journal of the American Chemical Society	2	2
Materials Letters	1	1
Molecular Crystals and Liquid Crystals	2	1
Molecules	2	2
Nature Chemistry	2	2
Nature Communications	2	2
New Journal of Chemistry	5	5
Optical Materials	1	1
Physical Chemistry Chemical Physics	1	1
Physical Science International Journal	2	2
Polyhedron	15	13
Polymers	1	1
RSC Advances	9	9
Sensors	2	1
Supramolecular Chemistry	2	2
Zeitschrift für Anorganische und Allgemeine Chemie	2	2
<b>Number of Journals: 45</b>	<b>Total: 480</b>	<b>Total: 442</b>

- 1998-today: Member of the Greek Chemical Society.
- 2004-today: Member of the Hellenic Green Chemistry Network.
- 2001-2004: Member of the American Chemical society.

- Member of the Scientific Committee of the: *5<sup>th</sup> Panhellenic Symposium on Porous Materials (2011)*; *6<sup>th</sup> Panhellenic Symposium on Porous Materials (2013)*; *7<sup>th</sup> Panhellenic Symposium on Porous Materials (2016)*.
- Member of the Organizer Committee of the: *Green Chemistry and Sustainable Development 6<sup>th</sup> Panhellenic Symposium with International Participation, Athens, Greece, 18-20 October, 2019*.
- Member of the Senate of NKUA 2010-2011.
- Director of Sector III (Inorganic and Environmental Chemistry and Technology), Department of Chemistry, NKUA 2019-2020.
- Director of the Environmental Chemistry Laboratory, Department of Chemistry, NKUA 2/2020-today.
- Member of the Departmental General Assembly 2008-2009, 2013-today.
- Supervisor of the Chemistry building 2017-2022.
- Regular Member of the General Assembly of Hellenic Foundation for Research and Innovation (HF.R.I.) 2018-2020; Substitute member 2020-today.
- Member of the Departmental Internal Assessment Group 2016-2018.
- Member of the Departmental Health and Safety Committee 2009-2014.
- In charge of the management of laboratory waste for Inorganic Chemistry Lab 2009-today.
- Military Service 2004-2005.
- Languages: Greek, English.