

EMPLOYMENT

Assistant Professor <i>Department of Chemistry, National and Kapodistrian University of Athens</i>	June 2025 – present <i>Athens, Greece</i>
Special Teaching Scientist <i>Contract work, Department of Chemistry, University of Cyprus</i> <i>Courses: Organic Chemistry Laboratory I, Organic Chemistry II, Organic Chemistry III</i>	Sep 2021 – Dec 2024 <i>Nicosia, Cyprus</i>
Principal Investigator <i>Department of Chemistry, University of Cyprus</i>	Dec 2019 – May 2022 <i>Nicosia, Cyprus</i>
Research and Technical Specialist <i>Centre of Molecular and Macromolecular Studies</i>	May 2019 – Nov 2019 <i>Łódź, Poland</i>
Postdoctoral Research Associate <i>Chemistry Research Laboratory, Department of Chemistry, University of Oxford</i>	Feb 2017 – Jan 2018 <i>Oxford, UK</i>

EDUCATION

PhD in Organic Chemistry <i>Department of Chemistry, University of Cyprus</i> <i>Thesis: New Ring Transformations of 1,2,3-Dithiazoles</i>	Sep 2010 – Dec 2016 <i>Nicosia, Cyprus</i>
BSc in Chemistry <i>Department of Chemistry, University of Cyprus</i> <i>Thesis: Synthesis of New Dithiazolylidenes</i>	Sep 2006 – June 2010 <i>Nicosia, Cyprus</i>

FUNDS AND AWARDS

POSTDOCTORAL RESEARCH GRANT "DIDAKTOR" – POST-DOC/0718/0005 – €159,760 <i>Cyprus Research & Innovation Foundation</i>	Dec 2019 – May 2022
COST FELLOWSHIP FOR CONFERENCE PARTICIPATION <i>ASSOS 2022 Summer School on Organic Synthesis</i>	Jul 2022
EuChemS YOUNG INVESTIGATOR WORKSHOP (YIW) NOMINEE <i>Represented Cyprus twice at the YIW after nomination</i>	2019 & 2020
PhD SCHOLARSHIP AWARD – €8000 <i>Department of Chemistry, University of Cyprus</i>	2015-2016
1st PLACE UNDERGRADUATE RESEARCH AWARD – €3000 <i>Cyprus Research & Innovation Foundation</i>	2010

MENTORING AND OUTREACH

Head Mentor – Cyprus Chemistry Olympiad Team	2022 – present
Coordinator – Pancyprian Chemistry Olympiad	2022 – present
Science Communicator – Nutty Scientists Cyprus	2022-2024

PROFESSIONAL AFFILIATIONS

Royal Society of Chemistry (MRSC), Member	2019 – present
American Chemical Society (ACS), Member	2019 – present
Pancyprian Association of Chemical Scientists (ΠΕΕΧ), Member	2021 – present

GRANTS

- **2019-2021:** "Synthesis of canthin-4-ones and azepino fused quinolones." Funded by the *Cyprus Research Promotion Foundation* ("DIDAKTOR" – POST-DOC/0718/0005). €159,760. Principal Investigator. *Developed novel synthetic routes to canthin-4-ones and azepino-fused quinolones, exploring their potential biological activity.*

INVITED DEPARTMENTAL SEMINARS

- **2024:** "Exploring the Frontiers of Heterocyclic Chemistry" Department of Chemistry, University of Cyprus, November 13 (45 mins).
- **2019:** "Recent advances on the synthesis of S,N-rich heterocycles and alkaloids." Invited Seminar, Faculty of Chemistry, University of Łódź, Poland, January 15 (45 mins).

PUBLICATIONS LIST

Reviews (1) – Book Chapters (2)

- 1) "Direct C-H (Het)arylation of 1,2-Heteroazoles, Heterodiazoles and Triazoles", M. Koyioni and P.A. Koutentis, in *Handbook of CH-Functionalization*; Editor-in-Chief Debabrata Maiti, Wiley-VCH: Weinheim, CHF-0219: 2022, <https://doi.org/10.1002/9783527834242.chf0219>
- 2) "Bicyclic 5-6 Systems: Six and Seven Heteroatoms", M. Koyioni, P. A. Koutentis, *Compr. Heterocycl. Chem. IV*, Volume 10, Chapter 10.14, Volume Editor F. Aldabbagh, 586-605, 2022.
- 3) "Metal-Catalysed Direct Arylation of 1,2-Azoles", M. Koyioni, P.A. Koutentis, *Adv. Heterocycl. Chem.*, 2019, **129**, 89-154.

Research Articles (20 published)

- 1) "Synthesis of ring expanded canthin-6-ones", M. Koyioni, E. Broumidis, A. Kourtellaris, P.A. Koutentis, *in preparation*.
- 2) "Unexpected Performance of a Bifunctional Sensitizer/Activator Component for Photon Energy Management via Upconversion", G. Antoniou, S. Athanasopoulos, M. Koyioni, P. A. Koutentis, P. E. Keivanidis, *J. Phys. Chem. Lett.* 2024, **15**, 5337.
- 3) "Synthesis of Canthin-4-ones and Isocanthin-4-ones via B Ring Construction", M. Koyioni, A. Kourtellaris, P.A. Koutentis, *J. Org. Chem.* 2024, **89**, 6444.
- 4) "Tunable intermolecular charge transfer in ionic liquid crystalline derivatives of the [closo-B₁₀H₁₀]²⁻ anion", L. Jacob, E. Rzeszotarska, M. Koyioni, R. Jakubowski, D. Pocięcha, A. Pietrzak, P. Kaszyński, *Chem. Mater.*, 2022, **34**, 6476.
- 5) "Synthesis and evaluation of 1,2,3-dithiazole inhibitors of the nucleocapsid protein of feline immunodeficiency virus (FIV) as a model for HIV infection", T. Meili, T. Laitinen, M. Koyioni, P. A. Koutentis, A. Poso, R. Hofmann-Lehmann, C. R. M. Asquith, *Bioorg. Med Chem.*, 2022, **68**, e116834 (1-10).
- 6) "Crystal Structure and Solid-State Packing of 4-Chloro-5*H*-1,2,3-dithiazol-5-one and 4-Chloro-5*H*-1,2,3-dithiazole-5-thione", C. P. Constantinides, M. Koyioni, F. Bazzi, M. Manoli, D. B. Lawson, P. A. Koutentis, *Molecules*, 2021, **26**, 5875.
- 7) "8,8'-(Benzo[c][1,2,5]thiadiazole-4,7-diyl)bis(quinolin-4(1*H*)-one): a twisted photosensitizer with AIE properties", E. Broumidis, C. M. S. Jones, M. Koyioni, A. Kourtellaris, G. O. Lloyd, J. Marques-Hueso, P. A. Koutentis, F. Vilela, *RSC Adv.*, 2021, **11**, 29102.
- 8) "Design and evaluation of 1,2,3-dithiazoles and fused 1,2,4-dithiazines as anti-cancer agents", K. A. Maffuidae, ^[+] M. Koyioni, ^[+] C. D. Torricea, W. A. Murphy, H. K. Mewada, P. A. Koutentis, D. J. Crona, C. R. M. Asquith, *Bioorg. Med. Chem. Lett.*, 2021, **43**, 128078 (^[+] equal contribution).
- 9) "The Reaction of 6-(4-Chloro-5*H*-1,2,3-dithiazol-5-ylidene)-4-methylcyclohexa-2,4-dien-1-one with Benzene-1,2-diamine: Synthesis and Chemistry of *N*-(2-Aminophenyl)-2-hydroxy-5-methylbenzimidoyl Cyanide", M. Koyioni, P. A. Koutentis, *Synlett*, 2020, **31**, 482.
- 10) "Synthesis of Lamellarin Alkaloids Using Orthoester-Masked α -Keto Acids", H.J. Shirley, ^[+] M. Koyioni, ^[+] F. Muncan, T.J. Donohoe, *Chem. Sci.*, 2019, **10**, 4334 (^[+] equal contribution).
- 11) "OBO Protected Pyruvates as Reagents for the Synthesis of Functionalized Heteroaromatic Compounds", C.H.A. Esteves, M. Koyioni, K.E. Christensen, P.D. Smith, T.J. Donohoe, *Org. Lett.*, 2018, **20**, 4048-4051. Included in *Synfacts*, 2018, **14**, 0909.
- 12) "Potent inhibitors of human LAT1 (SLC7A5) transporter based on dithiazole and dithiazine compounds for development of anticancer drugs", L. Napolitano, M. Scalise, M. Koyioni, P.A. Koutentis, M. Catto, I. Eberini, C. Parravicini, L. Palazzolo, L. Pisani, M. Galluccio, L. Console, A. Carotti, C. Indiveri, *Biochem. Pharmacol.*, 2017, **143**, 39.
- 13) "Synthesis of Quinoidal 5,5'-Diarylimino 2,2'-Bithiazoles", M. Koyioni and P.A. Koutentis, *Org. Lett.*, 2017, **19**, 174.
- 14) "The Reaction of DABCO with 4-Chloro-5*H*-1,2,3-dithiazoles: Synthesis and Chemistry of 4-[*N*-(2-Chloroethyl)piperazin-1-yl]-5*H*-1,2,3-dithiazoles", M. Koyioni, M. Manoli, P.A. Koutentis, *J. Org. Chem.*, 2016, **81**, 615.
- 15) "Ring transformations of 2-hydroxy-(4-chloro-5*H*-1,2,3-dithiazol-5-ylideneamino)arenes", A.S. Kalogirou, S.S. Michaelidou, M. Koyioni, P.A. Koutentis, *Tetrahedron*, 2015, **71**, 7181.
- 16) "1,2,3-Dithiazoles – new reversible melanin synthesis inhibitors: a chemical genomics study", A. Charalambous, M. Koyioni, I. Antoniadis, D. Pegeioti, I. Eleftheriou, S.S. Michaelidou, S.A. Amelichev, L.S. Konstantinova, O.A. Rakitin, P.A. Koutentis, P.A. Skourides, *MedChemComm*, 2015, **6**, 935. Included in themed collection "2015 *MedChemComm* Hot Articles"
- 17) "Synthesis of Fused 1,2,4-Dithiazines and 1,2,3,5-Trithiazepines", M. Koyioni, M. Manoli and P.A. Koutentis, *J. Org. Chem.*, 2014, **79**, 9717.
- 18) "Reinvestigating the reaction of 1*H*-pyrazol-5-amines with 4,5-dichloro-1,2,3-dithiazolium chloride: A route to pyrazolo[3,4-*c*]isothiazoles and pyrazolo[3,4-*d*]thiazoles", M. Koyioni, M. Manoli, M.J. Manolis and P.A. Koutentis, *J. Org. Chem.*, 2014, **79**, 4025.
- 19) "The conversion of [(4-chloro-5*H*-1,2,3-dithiazol-5-ylidene)amino]azines into azine fused thiazole-2-carbonitriles", P.A. Koutentis, M. Koyioni, S.S. Michaelidou, *Org. Biomol. Chem.*, 2013, **11**, 621.

- 20) "Inactivation of the glutamine/amino acid transporter ASCT2 by 1,2,3-dithiazoles: Proteoliposomes as a tool to gain insights in the molecular mechanism of action and of antitumor activity", F. Oppedisano, M. Catto, P.A. Koutentis, O. Nicolotti, L. Pochini, M. Koyioni, A. Introcaso, S.S. Michaelidou, A. Carotti, C. Indiveri, *Toxicol. Appl. Pharm.*, 2012, **265**, 93.
- 21) "Synthesis of [(4-Chloro-5*H*-1,2,3-dithiazol-5-ylidene)amino]azines", P.A. Koutentis, M. Koyioni and S.S. Michaelidou, *Molecules*, 2011, **16**, 8992.