Anastasia Louka

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Education

- **2017-2021**

PhD in Organic Chemistry / Department of Chemistry, University of Crete.

Title: Applications of metal nanoparticles and metal organic frameworks in the heterogenous catalysis of organic transformations.

- **2012-2014**

MSc Research Degree in Isolation and Synthesis of Natural Products with Biological Activity / Department of Chemistry, University of Crete.

Title: Reduction of quinolines to 1,2,3,4- tetrahydroquinolines with hydrosilane/ethanol catalyzed by TiO_2-supported gold nanoparticles under solvent free conditions.

- **2008-2012**

BSc Degree in Chemistry / Department of Chemistry, University of Crete.

Final year diploma thesis in catalysis in organic chemistry.

Title: Protection of phenols by hydrosilanes as silyl ethers catalyzed by Au/TiO_2.

Research/Teaching experience

- **2022 – 2023**

PostDoc Researcher / Department of Chemistry, University of Crete.

Academic Scholarship of the Department of Chemistry for the academic year 2022-2023 to carry out a research project in the subject "Modern methods of synthesis and chemical analysis"

- **2021 – 2022**

PostDoc Researcher / Department of Chemistry, University of Crete.

Participation in the research project "Development of new synthetic methodologies and their application in the synthesis of organic compounds with possible biological/anticancer activity"

- **2017 – 2019, 2012 – 2014**

Teaching assistant in the following undergraduate practical courses / Department of Chemistry, University of Crete.

2nd Year Organic Chemistry I Practicals
2nd Year Organic Chemistry II Practicals

- **2012**

Industrial Training Placement / Hospital Biochemical Laboratory.

Languages

English First Certificate in English (FCE) Cambridge
French Diplome d'etudes en langue francaise (DELF) B1

Seminars

- ISO 22000 and HACCP seminar series.
- Gas chromatography–mass spectrometry (GC-MS) technique.

Scholarships

- **2017 – 2020**

H.F.R.I

Hellenic Foundation for Research and Innovation and Greek Secretariat for Research and Technology (GRST), Three years scholarship awarded for Ph.D. studies.

Skills

- Nuclear Magnetic Resonance (NMR)
- Gas Chromatography-Mass Spectrometry (GCMS)
- High Performance Liquid Chromatography (HPLC)
- Liquid Chromatography-Mass Spectrometry (LCMS)
- Software: Origin 8.0, Topspin, MestreNova, ChemDraw, GCMSsolution, Microsoft Windows, Microsoft Office (Word, Excel, PowerPoint)

Conferences

- **Anastasia Louka,** Manolis Stratakis "Digermylation of alkynes and hydrogermylation of allenes catalyzed by Au nanoparticles" 21st Chemistry Postgraduates Conference, Department of Chemistry, University of Crete, Greece, May **2019** (Oral presentation)
- **Anastasia Louka,** Manolis Stratakis "Reductive amination of carbonyl compounds catalyzed by Au nanoparticles" 20th Chemistry Postgraduates Conference, Department of Chemistry, University of Crete, Greece, June **2018** (Oral presentation)

Publications

1. Kyriakakis, G.; Kidonakis, M.; **Louka, A.**; Stratakis, M. To be submitted. "Stereoselective synthesis of *trans*-disilylethylenes via chemoselective arylation of *cis*-disilylalkenes catalyzed by Pd nanoparticles"
2. **Louka, A.**; Tsangarakis, C.; Trikalitis, P.; Stratakis, M. In preparation. "CO_2-fixation on epoxides catalyzed by a Zr-MOF: A mechanistic approach"
3. **Louka, A.**; Stratakis, M. *Asian J. Org. Chem.* **2021**, *10*, 3364-3369 "Deoxygenation of Epoxides with Hexamethyldigermane Catalyzed by Au Nanoparticles" https://doi.org/10.1002/ajoc.202100581
4. **Louka, A.**; Stratakis, M. *Org. Lett.* **2021,** 23, 3599-3603 "Synthesis of Vinylgermanes via the Au/TiO_2-Catalyzed cis-1,2-Digermylation of Alkynes and the Regioselective Hydrogermylation of Allenes" https://doi.org/10.1021/acs.orglett.1c00997
5. **Louka, A.**; Kidonakis, M.; Saridakis, I.; Zantioti-Chatzouda, E.-M.; Stratakis, M. *Eur. J. Org. Chem.* **2020**, 3508–3514 "Diethylsilane as a powerful reducing agent in Au nanoparticle-catalyzed transformations" [Highlighted in SYNFACTS; *Synfacts* **2020**, *16*, 1205]) https://doi.org/10.1002/ejoc.202000483
6. Vasilikogiannaki, E.; **Louka, A.**; Stratakis, M. *Organometallics* **2016**, *35*, *23*, 3895 3902 "Gold nanoparticle-catalyzed silaboration of oxetanes and unactivated epoxides" https://doi.org/10.1021/acs.organomet.6b00465
7. **Louka, A.**; Gryparis, C.; Stratakis, M. *ARKIVOC* **2015**, (iii), 38 "Reduction of quinolines to 1,2,3,4-tetrahydroquinolines with hydrosilane/ethanol catalyzed by TiO_2-supported gold nanoparticles under solvent free conditions" http://dx.doi.org/10.3998/ark.5550190.p008.955
8. Vasilikogiannaki, E.; Titilas, I.; Gryparis, C.; **Louka, A.**; Lykakis, I. N.; Stratakis, M. *Tetrahedron Lett.* **2014**, *70*, 6106 "Efficient hydrosilylation of carbonyl compounds by 1,1,3,3-tetramethyldisiloxane catalyzed by Au/TiO_2" https://doi.org/10.1016/j.tet.2014.03.094