

Ioanna K. Sideri

LIST OF PUBLICATIONS

Peer-review Journal Publications

- 1) I. Triandafillidi, **I. K. Sideri**, D. I. Tzaras, N. Spiliopoulou and C. G. Kokotos "Green organocatalytic synthesis of dihydrobenzofurans by oxidation–cyclization of allylphenols" *Synthesis* **2017**, 49 (18), 4254; DOI: [10.1055/s-0036-1588998](https://doi.org/10.1055/s-0036-1588998)
- 2) **I. K. Sideri**, E. Voutyritsa and C. G. Kokotos, "Photoorganocatalysis, small organic molecules and light in the service of organic synthesis: the awakening of a sleeping giant" *OBC* **2018**, 16 (25), 4596; DOI: [10.1039/C8OB00725J](https://doi.org/10.1039/C8OB00725J)
- 3) **I. K. Sideri**, E. Voutyritsa and C. G. Kokotos, "Green photoorganocatalytic synthesis of phenols from arylboronic acids", *Synlett* **2018**, 29 (10), 1324; DOI: [10.1055/s-0036-1591837](https://doi.org/10.1055/s-0036-1591837)
- 4) T. Duhamel, M. D. Martinez, **I. K. Sideri** and K. Muniz, "1,3-Diamine formation from an interrupted Hofmann–Löffler reaction: Iodine catalyst turnover through Ritter-type amination" *ACS Catal.* **2019**, 9 (9), 7741; DOI: [10.1021/acscatal.9b01566](https://doi.org/10.1021/acscatal.9b01566)
- 5) **I. K. Sideri**, E. Voutyritsa and C. G. Kokotos, "Photochemical hydroacylation of Michael acceptors utilizing an aldehyde as photoinitiator", *ChemSusChem* **2019**, 12 (18), 4194; DOI: [10.1002/cssc.201901725](https://doi.org/10.1002/cssc.201901725)
- 6) **I. K. Sideri**, R. Arenal, and N. Tagmatarchis, "Covalently functionalized MoS₂ with dithiolenes", *ACS Mater. Lett.* **2020**, 2, 832; DOI: [10.1021/acsmaterialslett.0c00108](https://doi.org/10.1021/acsmaterialslett.0c00108)
- 7) H. Nakajima, T. Morimoto, K. Kobashi, M. Zhang, **I. K. Sideri**, N. Tagmatarchis, and T. Okazaki, "Outer surface covalent functionalization of carbon nanohorn spherical aggregates assessed by highly spatial-resolved energy dispersive X-ray spectrometry in scanning electron microscopy", *J. Phys. Chem. C* **2020**, 124, 25142; DOI: [10.1021/acs.jpcc.0c07986](https://doi.org/10.1021/acs.jpcc.0c07986)
- 8) **I. K. Sideri**, and N. Tagmatarchis, "Noble-metal-free doped carbon nanomaterial electrocatalysts", *Chem. Eur. J.* **2020**, 26, 15397; DOI: [10.1002/chem.202003613](https://doi.org/10.1002/chem.202003613)
- 9) **I. K. Sideri**, and N. Tagmatarchis, "Chemically modified carbon nanostructures and 2D nanomaterials for fabrics performing under operational tension and extreme environmental conditions", *Mater. Horiz.* **2021**, 8 (12), 3187; DOI: [10.1039/D1MH01077H](https://doi.org/10.1039/D1MH01077H)

- 10)** **I. K. Sideri**, Y. Jang, J. Garcés-Garcés, A. Sastre-Santos, R. Canton-Vitoria, R. Kitaura, F. Fernández-Lazaro, F. D'Souza, and N. Tagmatarchis, "Unveiling the photoinduced electron-donating character of MoS₂ in covalently linked hybrids featuring perylenediimide", *Angew. Chem. Int. Ed.* **2021**, *60*, 9120; DOI: [10.1002/anie.202016249](https://doi.org/10.1002/anie.202016249)
- 11)** A. Plantzopoulou, **I. K. Sideri**, A. Stergiou, M. Kafetzi, S. Pispas, R. Arenal, and N. Tagmatarchis, "A solution-processed MoS₂/graphene heterostructure mediated by a bifunctional block copolymer as a non-noble metal platform for hydrogen evolution", *Sustainable Energy Fuels* **2022**, *6*, 2858; DOI: [10.1039/D2SE00218C](https://doi.org/10.1039/D2SE00218C)
- 12)** A. Stergiou, **I. K. Sideri**, M. Kafetzi, A. Ioannou, R. Arenal, G. Mousdis, S. Pispas, and N. Tagmatarchis, "Methylammonium lead bromide perovskite nanocrystals grown in a poly[styrene-co-(2-(dimethylamino)ethyl methacrylate)] matrix immobilized on exfoliated graphene nanosheets", *Nanomaterials* **2022**, *12*, 1275; DOI: [10.3390/nano12081275](https://doi.org/10.3390/nano12081275)
- 13)** M.-L. Vorvila,[#] **I. K. Sideri**,[#] A. Stergiou, M. Kafetzi, R. Arenal, S. Pispas, and N. Tagmatarchis, "Graphene featuring imidazolium rings and electrostatically immobilized polyacrylate chains as metal-free electrocatalyst for selective oxygen reduction to hydrogen peroxide", *Colloids Surf. A: Physicochem. Engin. Aspects* **2022**, *648*, 129252; DOI: [10.1016/j.colsurfa.2022.129252](https://doi.org/10.1016/j.colsurfa.2022.129252) [#] *Equally contributed*
- 14)** **I. K. Sideri**, G. Charalambidis, A. G. Coutsolelos, R. Arenal, and N. Tagmatarchis, "Pyridine vs imidazole axial ligand on cobaloxime grafted graphene: Hydrogen evolution reaction insights", *Nanomaterials* **2022**, *12*, 3077; DOI: [10.3390/nano12173077](https://doi.org/10.3390/nano12173077)
- 15)** R. Canton-Vitoria, T. Hotta, Y. Tanuma, **I. K. Sideri**, N. Tagmatarchis, C. Ewels and R. Kitaura, "Localized excitons in Zn-porphyrin covalently functionalized MoS₂ and WS₂", *J. Phys. Chem. C* **2023**, *127*, 10699; DOI: [10.1021/acs.jpcc.2c08009](https://doi.org/10.1021/acs.jpcc.2c08009)
- 16)** **I. K. Sideri**, C. Stangel, A. Stergiou, A. Liapi, H. J. Ojeda-Galván, M. Quintana, N. Tagmatarchis, "Covalently modified MoS₂ bearing a Hamilton-type receptor for recognizing a redox-active ferrocene-barbiturate guest via multiple H-bonds", *Chem. Eur. J.* **2023**, *45*, e202301474; DOI: [10.1002/chem.202301474](https://doi.org/10.1002/chem.202301474)
- 17)** **I. K. Sideri**, R. Canton-Vitoria, H. J. Ojeda-Galvan, M. Quintana, N. Tagmatarchis, "Sustainable photocatalytic acylation of transition metal dichalcogenides with atom economy" *Small* **2024**, 2311045; DOI: [10.1002/smll.202311045](https://doi.org/10.1002/smll.202311045)