**DEPARTMENT OF CHEMICAL ENGINEERING – UNIVERSITY OF WESTERN MACEDONIA**

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| **Name and Surname:** | Maria Antoniadou |  |
| **Specialization/Position:** | Assistant Professor, Chemical Engineering Department, University of Western Macedonia | |
| **Short CV:** | Maria Antoniadou is Assistant Professor at the Chemical Engineering Department at University of Western Macedonia. She has received her diploma in Chemical Engineering at Patras University and completed her PhD at the Department of Engineering Sciences. Thesis title: «Study of the photoelectrochemical production of hydrogen and electricity by using hybrid organic-inorganic structures». She worked as a post-doctoral researcher at Chemical Engineering Department, Patras University, on many parallel projects in the field of photocatalysis, photoelectrochemical water splitting and solar energy conversion. Since March 2014 she has been working as a post-doctoral researcher at the Institute of Nanoscience and Nanotechnology, NCSR "Demokritos". Her research interests focus on advanced materials and devices for energy harvesting. She is also currently the author of 46 peer-reviewed scientific publications with over 1800 citations (h-index 23) according to Scopus. | |
| **Publications 2018-2023 (up to 5**) | 1. *"Nanotubular Structures for Photocatalytic Degradation of Pharmaceuticals and Organic Contaminants of Emerging Concern",* M. Antoniadou, P.P. Falara, V. Likodimos, Current Opinion in Green and Sustainable Chemistry, *29* **(2021)** *100470*<br>2. *"Graphene Quantum Dot-$TiO_2$ Photonic Crystal Films for Photocatalytic Applications",* M.A. Apostolaki, A. Toumazatou, M. Antoniadou, E. Sakellis,E. Xenogiannopoulou, S. Gardelis, N. Boukos, P. Falaras, A. Dimoulas, V. Likodimos, Nanomaterials 10 **(2020)** *2566*<br>**3.** *"Boosting visible light harvesting and charge separation in surface modified TiO2 photonic crystal catalysts by $CoO_x$ nanoclusters",* A. Toumazatou, M. Antoniadou, E. Sakellis, D. Tsoutsou, S. Gardelis, G. E. Romanos, N. Ioannidis, N. Boukos, A. Dimoulas, P. Falaras, V. Likodimos, Materials Advances, DOI: 10.1039/D0MA00510J **(2020)**<br>4. *"Stability Improvement and Performance Reproducibility Enhancement of Perovskite Solar Cells Following (FA/MA/Cs)$PbI_{3-x}Br_x$/$(CH_3)_3SPbI_3$ Dimensionality Engineering*", Mohamed Elsenety, Maria Antoniadou, Nikolaos Balis, Andreas Kaltzoglou, Labrini Sygellou, Anastasios Stergiou, Nikos Tagmatarchis, and Polycarpos Falaras, ACS Applied Energy Materials, 3**(2020)** 2465-2477<br>5. *«Synthesis, characterization of $((CH_3)_3S)_2SnI_{6-n}Cl_n$ and $((CH_3)_3S)_2SnI_{6-n}Br_n$ (n=1,2) perovskites and use in dye-sensitized solar cells»* M.M. Elsenety, M. Antoniadou, A. Kaltzoglou, A. G. Kontos, A.I. Philippopoulos, C.A. Mitsopoulou, P. Falaras, Materials Chemistry and Physics 239 **(2020)** 122310 | |
| **Research Projects 2013-2018 (up to 5)** | 1. 2022: "Autonomous system of uninterrupted production and storage of electricity using photovoltaics on highways" RESEARCH – CREATE – INNOVATE (project code:T1EDK-03547) INN, NCSR Demokritos<br>2. 2018-2021: *"Hydrogen and electricity production via water splitting in a tandem photoelectrochemical perovskite solar cell"*– granted by the Hellenic Foundation for Research and Innovation, INN, NCSR Demokritos<br>3. | |
| **Distinctions:** | 1. IKY fellowships of Excellence for Postgraduate Studies in Greece- Siemens Programme 2014-2015 in the framework of the Hellenic Republic-Siemens Settlement Agreement<br>2. IKY fellowships of Excellence for Postgraduate Studies in Greece- Siemens Programme 2017 | |