

CURRICULUM VITAE

Eleftherios Christopoulos

PhD Student

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EDUCATION

- PhD. Development of hybrid tin-based perovskites and application in solar cells, Department of Physics, University of Patras, Greece (Present)
- M.Sc. in Materials engineering and Nanotechnology, Politecnico di Milano, Italy (2018)
- B.Sc. in Physics, Department of Physics, University of Patras, Greece (2014)

PROFESSIONAL EXPERIENCE

08/2021 – present: PhD researcher, Theoretical and Physical Chemistry Institute of the National Hellenic Research Foundation (NHRF), Athens, Greece

02/2019-07/2021: Early-Stage Researcher, Institute of Nanoscience and Nanotechnology, National Centre for Scientific Research (NCSR) "Demokritos", Athens, Greece

03/2013-07/2013: Internship, Museum of Science and Technology University of Patras, Greece

2010 - 2013: Physics professor, High School Students Preparation, Patra, Greece

MAIN RESEARCH INTERESTS

- Synthesis in Solution of Inorganic and Organic-Inorganic Compounds
- Photoelectrochemical, Spectroscopic analysis (UV-Vis, PL, Raman)
- Solar cell materials, Solar cell devices

AWARDS AND DISTINCTIONS

- Hellenic Foundation for Research and Innovation (H.F.R.I.) Scholarship for PhD Candidates, Institute of Nanoscience and Nanotechnology, National Centre for Scientific Research (NCSR) "Demokritos", Athens, Greece
- EU Marie-Curie Scholarship for Doctoral Studies (H2020-MSCA-ITN2017), Institute of Nanoscience and Nanotechnology, National Centre for Scientific Research (NCSR) "Demokritos", Athens, Greece

SELECTED PUBLICATIONS

1. Energy efficiency improvement of water pumping system using synchronous reluctance motor fed by perovskite solar cells, A.A. Zaky, M.N. Ibrahim, H. Rezk, E. Christopoulos, R.A.El Sehiemy, E. Hristoforou, A. Kladas, P. Sergeant, P. Falaras, Int J Energy Res., 1–14, 2020, <https://doi.org/10.1002/er.5788> .
2. Enhancing efficiency and decreasing photocatalytic degradation of perovskite solar cells using a hydrophobic copper-modified titania electron transport layer, A.A. Zaky, E. Christopoulos, K. Gkini, M. Arfanis, L. Sygellou, A. Kaltzoglou, A. Stergiou, N. Tagmatarchis, N. Balis, P. Falaras, Applied Catalysis B: Environmental, 119714, 2020, <https://doi.org/10.1016/j.apcatb.2020.119714>.