

## Brief CV of Ioannis E. Kosmadakis

Ioannis E. Kosmadakis serves since 2018 as a member of the Laboratory Teaching Staff (LTS), at the Department of Environmental Engineering (DEE) of the Democritus University of Thrace, in Greece. He carries out laboratory-applied teaching work which primarily involves experimental and practical exercises in the undergraduate courses in “Renewable Energy Technologies”, “Design of Renewable Energy Systems”, “Computer Programming with R”, and “Data Engineering with Python”. From February 2004 to February 2018, he served as a member of the Special Technical Laboratory Staff (STLS) at the DEE, gaining extensive experience in the design and development of experimental instrumentation systems, data acquisition, data management, and control systems design. He has participated in various research projects and in two international environmental research campaigns, namely, "ScoutO3\_2006" and "Thermopolis\_2009". He holds an integrated MSc degree in Electrical and Computer Engineering, from the Democritus University of Thrace. He also received an MSc and a PhD from the Department of Environmental Engineering at the same university. His research interests lie in the fields of Renewable Energy Generation and Demand Management, Data-driven Energy Analytics, and Renewable Energy Economics. He co-authored and published six peer-reviewed articles in international scientific journals (Citations: 70, h-index:4) and speaks fluently English and German, in addition to his mother tongue Greek.

## Recent Publications

1. Kosmadakis, I.E.; Elmasides, C. “A Sizing Method for PV–Battery–Generator Systems for Off-Grid Applications Based on the LCOE”, *Energies* 2021, 14, 1988. <https://doi.org/10.3390/en14071988>.
2. Ioannis E. Kosmadakis, Costas Elmasides, Georgios Koulinas, Konstantinos P. Tsagarakis, “Energy unit cost assessment of six photovoltaic-battery configurations”, *Renewable Energy*, 2021, Pages 24-41, ISSN 0960-1481, <https://doi.org/10.1016/j.renene.2021.03.010>.
3. “A Techno-Economic Analysis of a PV-Battery System in Greece”, **Kosmadakis I.**, Elmasides, C., Eleftheriou, D., & Tsagarakis, K. (2019). *Energies*, 12(7), 1357. <https://doi.org/10.3390/en12071357>.
4. “Towards performance enhancement of hybrid power supply systems based on renewable energy sources” by **I. Kosmadakis**, C. Elmasides, (2019) *ScienceDirect Energy Procedia*, vol. 157, no. 2018, pp. 977–991.
5. "Indoor/Outdoor PM2.5 elemental composition and organic fraction medications, in a Greek hospital.", G.Loupa, A.M.Zarogianni, D.Karali, **I.Kosmadakis**, S.Rapsomanikis, (2016), *Science of the Total Environment*.

6. "Optical properties of aerosol over a South European urban environment", Kelektoglou K., Rapsomanikis S., Karageorgos E.T., **Kosmadakis I.**, International Journal of Remote Sensing, Volume 33, Issue 24, December 2012, Pages 1214-1233.