

Curriculum Vitae **Ioannis Katsounaros**
Associate Professor of Physical Chemistry & Electrochemistry



Affiliation Aristotle University of Thessaloniki
Department of Chemistry
Laboratory of Physical Chemistry

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Professional Experience

2024-present Associate Professor at the Aristotle University of Thessaloniki, Department of Chemistry (Greece)
2022-2024 Electrochemistry Scientist at ExxonMobil Corp., ExxonMobil Chemical Europe (Belgium)
2016-2021 Group leader at the Research Center Jülich, Helmholtz Institute Erlangen-Nuremberg for Renewable Energy (Germany)
2015-2016 Marie Curie Fellow (Return phase) at the Leiden University, Leiden Institute of Chemistry (The Netherlands)
2013-2015 Marie Curie Fellow (Outgoing phase) at the US DoE Argonne National Lab, Materials Science Division (United States)
2010-2013 Postdoc at the Max Planck Institute for Iron Research, Interface Chemistry and Surface Engineering (Germany)

Education

2005-2009 PhD in Chemical Engineering at the Aristotle University of Thessaloniki (Greece)
2000-2005 Diploma in Chemical Engineering at the Aristotle University of Thessaloniki (Greece)

Research areas

- Physical electrochemistry & electrocatalysis
- Low-carbon electrochemical technologies
- Electrolyzers and fuel cells
- Sustainable synthesis of fuels and chemicals
- Electrochemical carbon capture & utilization

Summary of scientific output

64 journal papers, >9,600 citations (h-index: 41), 2 patents, 3 book chapters

Full publication list: [Google scholar](#); ORCID: [0000-0001-6462-710X](https://orcid.org/0000-0001-6462-710X)

Selected publications

- [1] van Langevelde, P.; Katsounaros, I.; Koper, M.T.M.: [Electrocatalytic nitrate reduction for sustainable ammonia production](#); **Joule** (2021)
- [2] Löffler, M.; Mayrhofer, K.J.J.; Katsounaros, I.: [Oxide reduction precedes carbon dioxide reduction on oxide-derived copper electrodes](#); **Journal of Physical Chemistry C** (2021)
- [3] Khanipour, P.; Löffler, M.; Reichert, A.M.; Haase, F.T.; Mayrhofer, K.J.J.; Katsounaros, I.: [Electrochemical real-time mass spectrometry \(EC-RTMS\) – monitoring electrochemical reaction products in real time](#); **Angewandte Chemie – International Edition** (2019)
- [4] Katsounaros, I.; Figueiredo, M.C.; Chen, X.; Calle-Vallejo, F.; Koper, M.T.M.: [Structure- and coverage-sensitive mechanism of NO reduction on platinum electrodes](#); **ACS Catalysis** (2017)
- [5] Katsounaros, I.; Cherevko, S.; Zeradjanin, A.R.; Mayrhofer, K.J.J.: [Oxygen electrochemistry as a cornerstone for sustainable energy conversion](#); **Angewandte Chemie – International Edition** (2014)

Supervision

Past: 6 PhD students, 4 undergraduate/MSc students, 3 postdocs, 2 guests

Delivered talks

>50 talks (invited talks to conferences, industry or academic institutions, and other regular conference talks)

Funding

- 6x projects managed as participant while at HI ERN (1.6 M€ total)
- 2x Individual fellowships (340 k€ total)
- 2x Host scientist to Fulbright and Humboldt fellows (117 k€ total)

Teaching

2017-2021 Advanced Electrochemistry (Master's course)
 FAU Erlangen-Nürnberg, Chemical and Biological Engineering

Awards and recognitions

- ISE Travel Award for Young Electrochemists (International Society of Electrochemistry, 2014)
- Marie Curie International Outgoing Fellowship (European Commission, 2013)
- Max-Planck-Society postdoctoral fellowship (Max-Planck-Gesellschaft, 2010)

Commissions of trust

- Peer reviewer of ~30 manuscripts annually (>280 since 2012) in journals such as Electrochimica Acta (>70), ACS Catalysis (>20), Angewandte Chemie (>20), Journal of the Electrochemical Society (>10) etc. Reviews are verified by Clarivate: <https://bit.ly/3gbiDhy>
- Expert reviewer for EU proposals (>25 since 2018)
- Expert evaluator of proposals submitted to funding organizations in Germany, Austria, The Netherlands, Belgium, Slovenia or Saudi Arabia