

Dr Salvador Eslava

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www.imperial.ac.uk/people/s.eslava

<https://www.imperial.ac.uk/eslava-group/>

• EDUCATION

- 2015 – 2017 Fellow of the Higher Education Academy, UK
2005 – 2009 PhD, Centre for Surface Chemistry and Catalysis (COK), Katholieke Universiteit Leuven, Belgium and IMEC, Leuven, Belgium. Profs K Maex, CEA Kirschhock, and JA Martens. PhD thesis with largest number of publications in IMEC, Belgium, in 2009 (12 articles)
2004 – 2005 Taught Master in Materials Science, Università degli Studi di Pavia, Italy
1998 – 2003 MEng in Chemical Engineering (1st class), Universitat Autònoma de Barcelona, Spain

• CURRENT AND PREVIOUS POSITIONS

- 2022 – date Reader (Assoc. Prof.), Dept. Chemical Engineering, Imperial College London, UK
2019 – 2022 Senior Lecturer, Dept. Chemical Engineering, Imperial College London, UK
2014 – 2019 Lecturer, Dept. Chemical Engineering, University of Bath, UK
2011 – 2014 Postdoctoral research associate, Dept. Materials, Imperial College London, UK
2008 – 2011 Postdoctoral research associate, Dept. Chemistry, University of Cambridge, UK

• FELLOWSHIPS AND AWARDS

- To date More than 40 invited or keynote talks at e.g. MATSUS23 and E-MRS Fall 2021
2023 Recognised outstanding reviewer for *RSC Sustainable Energy & Fuels*
2021 Warner Medal for 2021, unanimously awarded by the Institution of Chemical Engineers IChemE's Medals & Prizes Committee, for my research work on solar fuels
2020 Student Choice Award nomination for my teaching in Chem. Eng. at Imperial.
2019 – 2024 £1.3m Engineering Physical Sciences Research Council (EPSRC) Early Career Fellowship, UK. Most highly competitive Fellowship scheme for early-career academics in the UK
2018 – 2019 Guest professor at University of Chile, Santiago, Chile (Mar 2018 and Jun 2019)
2018 – 2019 Guest professor at Yonsei University, Seoul, South Korea (Jan 2018 and Jan 2019)

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2019 – date 4 Postdocs / 9 PhD / 16 MSc, Dept. Chem. Eng., Imperial College London, UK
2015 – 2019 3 Postdocs / 8 PhD / 1 MPhil / 8 MRes, Dept. Chem. Eng., University of Bath, UK. One PhD won the Ede & Ravenscroft Best PhD student (Dr Poli), and others prizes at conferences.
2012 – 2013 4 MSc, Dept. Materials, Imperial College London, UK. Two of them won best oral research presentations in their cohort

• TEACHING ACTIVITIES

- 2020 – date Lecturer in Heat Transfer (TP2) and Mastery exam Y2, Imperial College London, UK
2014 – 2019 Lecturer in Chem. Eng. undergraduate and PhD modules including Transport Phenomena, Catalytic Reaction Engineering and Photoelectrochemistry, Uni. of Bath, UK
2011 – 2014 Lab demonstrator in Y1-Y2 Mater. Eng., Dept. Materials, Imperial College London, UK
2009 – 2011 Teacher of “supervisions”/tutorials in Y1 Chemistry, Dept. Chem., Uni. Cambridge, UK

• ORGANISATION OF SCIENTIFIC MEETINGS

- 2023 Symposium organiser of the NanoGe MATSUS Fall 2023, Torremolinos, Spain
2023 Symposium organiser of the FEMS EUROMAT 2023, Frankfurt, Germany
2019 – 2022 Member of the scientific committee of the E-MRS Fall 2019 Symposium N, Warsaw, Poland
2019 Organiser of Workshop on Gas Adsorption, Membranes and (Photo)Catalysis between Bath, Yonsei, and Korea Universities
2018 Session chair in the European Materials Research Society (E-MRS), Warsaw, Poland
2018 Session chair in the RSC Recently Appointed in Materials Science conference, Cardiff, UK
2010 – 2019 **Outreach activities, stands:** GERF stand on H₂ (2022-23), Bath Taps into Science (2016-19), Pint of Science Festival pub presentation (2017), Imperial Festival (2013),

• INSTITUTIONAL RESPONSIBILITIES

- 2019 – date Meeting Secretary of the Clean Energy special interest group of the IChemE
2018 – 2019 Undergraduate Admissions Tutor for the Dept. of Chem. Eng. at University of Bath, UK

2015 – 2018 Equality and Diversity Coordinator for the Dept. of Chem. Eng. at University of Bath, UK
 2012 – 2014 Postdoctoral rep in the Centre for Advanced Structural Ceramics at Imperial College London

• EDITORIAL AND REVIEWING ACTIVITIES

2019 – 2021 Guest editor in the journal *Current Opinion in Green and Sustainable Chemistry*, Elsevier.
 2020 – date Editorial Board member of the journal *Hydrogen*, MDPI
 2010 – date Proposals evaluator of the UK EPSRC, EU ERC, EU MSCA, German DAAD, Romanian National Research Council, FONDECYT-CHILE, and United Arab Emirates (UAE)
 2019 – 2020 Assessor of Research Fellowships for Gonville & Caius and St John's Colleges, Cambridge
 2018 – date External PhD examiner at York, Liverpool, Heriot-Watt Uni., Uni. Cambridge and Bristol U.
 2006 – date Peer-reviewer of ~ 20 journal articles per year in *Nature Comm.*, *Chem. Soc. Rev.*, *Angew. Chem. Int. Ed.*, *Adv. Mater.*, *Chem. Eng. J.*, *J. Mater. Chem. A*, and ACS journals

• MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2015 – date Associate Member of The Institution of Chemical Engineers (AMIChemE)
 2006 – date Member of the American Chemical Society ACS and the Materials Research Society MRS
 2011 – date Member of Royal Society of Chemistry (MRSC)
 2013 – date Member of EPSRC Solar Fuels and Chemicals network, CO2Chem, MISE and UK&I Semicon. Photochem.

• MAJOR COLLABORATIONS

Current collaborations include academics at Imperial, UK (Prof. J. Durrant's group, Prof. Nic Harrison, Dr. Camille Petit, Prof. Jerry Heng, Prof. Ji-Seon Kim,...), Yonsei University, South Korea (Prof. J.H. Kim), Bath, UK (Prof. K Edler, Prof. S. Parker, Prof. D. Mattia, Dr P. Cameron, Dr A. Johnson, etc.), University of Cambridge, UK (Dr L. Torrente-Murciano), University of Surrey, UK (D. T. Reina-Ramirez), University of Bristol, UK (Prof. D. Fermin), Helmholtz-Zentrum Berlin, Germany (Dr I.Y. Ahmet), Cardiff University, UK (Dr E. Richards). All these collaborations resulted in scientific articles. Companies I have collaborated with include BASF (Ge), bp (UK), SAIC Motor (China), EMET Technologies Ltd. (UK), Advanced Fuel Technologies (UK), SPECIFIC (UK), Intel (US), Axcelis (US), TNSC (Japan), and Honeywell (US)

• FUNDING (total £2.7m, at full economic cost)

BASF + CDT ACM	£135k	PI	Photo(electro)catalyst development for sustainable C-C coupling	10/23-09/27
BP-ICAM seed funds + CTD-ACM	£167k	PI	Novel photocathodes for hydrogen production	10/21-09/25
EPSRC CoA Phase 2	£26k	PI	Engineering halide perovskites for artificial leaves	03/21-06/21
Imperial-IMSE seed funds	£11k	PI	Oxide perovskites for solar-to-fuel conversion	06/20-07/20
EPSRC Early Career Fellowship	£1.3m	PI	Interface Engineering for Solar Fuels	11/19-10/24
EPSRC Capital Award	£275k	Co-I	Capital Equipment Award (Chemisorption analyser)	10/18-10/19
Leverhulme award	£125k	Co-I	Pyroelectric H ₂ O splitting and water treatment using ferroelectrics	09/18-08/20
EPSRC Bright Ideas	£313k	PI	Engineering halide perovskites for artificial leaves	04/18-02/21
EPSRC Network MISE	£33k	PI	PEC hydrogen production with bimetallic phosphide electrocatalysts	08/18-11/18
EPSRC First Grant	£125k	PI	Nanostructured metal oxides for solar fuels	03/17-07/18
Innovate UK	£261k	Co-I	AFT-low emission, fuel enrichment technology for freight vehicles	04/17-03/18
Roy Soc Research Grant	£15k	PI	Novel mesostructured photoanodes using GO as sacrificial support	03/16-02/17

• RESEARCH METRICS

Peer-reviewed journal publications: 73; Patents: 1
 Conference presentations: >70
 Google Scholar citations on 16th Nov 2023: 3382
 Google Scholar h-index: 32 (see Fig. 1)

• RECENT PUBLICATIONS AND FULL LIST

[Chemistry of Materials 2023](#)

[Small 2023](#)

[Advanced Materials 2023](#)

[Advanced Functional Materials 2022](#)

[Journal of Materials Chemistry A 2021](#)

[Advanced Energy Materials 2021](#)

[Nature Communications 2019](#)

Ful list on [Imperial Web](#) and [Google Scholar](#)

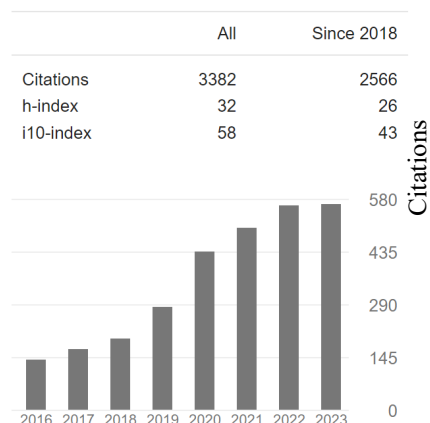


Fig. 1. [Google Scholar](#) results on 16th Nov 2023