



**Dr. Luis Fernando
ARENAS M.**
BSc (Hons.), MSc,
PhD, MRSC

Electrochemist and Electrochemical Engineer

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www.researchgate.net/profile/Luis_Arenas3

scholar.google.com/citations?user=tYSo9IQAAAAJ

Curriculum vitae Highlights, November 2025.

Present Positions

- **Lecturer in Energy Engineering.** Faculty of Engineering and Physical Sciences, University of Southampton, UK. *Since February 2025.*
- **Electrochemical Technology Executive Committee.** SCI, UK. Since 2017.

Past Positions

- **Research Manager, Vanadium flow batteries.** Electrochemistry and Catalysis Group (ELCAT). University of Antwerp, Belgium. 2023 – 2025.
- **Humboldt Fellow, Organic systems.** Institute for Chem. and Electrochem. Process Eng. (ICVT). Clausthal University of Technology. Ger. 2021 – 2023.
- **R&D Consultant, Industrial electrochemical processes.** Chlor-Alkali, S. de R.L. Monterrey, Mexico. 2020 – 2021.
- **R&D Contractor, Electrodialysis-based energy storage.** National Institute of Electricity and Clean Energy (INEEL). Cuernavaca, Mexico. 2019 – 2020.
- **Research Fellow, PEM fuel cells and H₂ storage.** Electrochemical Engineering Laboratory, University of Southampton, UK. 2017 – 2019.

Education

- **PhD – Electrochemical Engineering (2017).** University of Southampton, United Kingdom. 2013 – 2017. Thesis: Zinc-cerium redox flow battery.
- **MSc – Chemical Science and Technology (2013).** Autonomous University of Coahuila, Mexico. 2011 – 2013. Thesis: Amperometric glucose biosensors.
- **BSc (Hons.) – Chemistry (2010).** Autonomous University of Coahuila, Mexico. 2006 – 2010. Thesis: Corrosion of weld seams in pipeline steel.

Selected awards

- **ISE Travel Award 2022.** International Society of Electrochemistry (ISE), Switzerland.
- **National Register of Researchers 2020.** (SNI) CONACYT, Mexico.
- **Schwäbisch Gmünd Prize 2019.** Eur. Academy of Surface Tech. Ger.

Scientific output

- Peer-reviewed articles: 47 (6 covers)
- Book chapters: 6
- Presentations: 53 talks, 34 posters.

Conference highlight

- **Invited talk - ECS Webinar Series.** Leaders in electrochemistry. 2022. USA. www.electrochem.org/webinars

Peer-review

- ACS Energy Letters, Nat. Commun., Angewandte Chemie, Nat. Sust., PNAS, Electrochim. Acta, Int. J. Hydrogen Energy, *many more.*

Memberships

- RSC, DECHEMA, SCI, ISE, ECS.