

Maxie Magdalena Roessler MRSC | Imperial College London | Department of Chemistry
www.imperial.ac.uk/people/m.roessler | www.imperial.ac.uk/pulse-epr-facility/

CAREER and EDUCATION *Two career breaks (children born 2013 and 2018)*

2022 Reader in EPR Spectroscopy at Imperial College London
2019 Senior Lectureship at Imperial College London
2013 Lectureship at Queen Mary University of London (Senior Lectureship in 2018)
2012 DPhil in Inorganic Chemistry, University of Oxford
2008 German Academic Exchange Service Scholar (China) and Beijing Foreign Studies University Graduate
2006 MChem, University of Oxford, 1st Class

AWARDS and PRIZES *Independent career only:* **2024** Royal Society of Chemistry [Joseph Black Prize](#) | **2023** Imperial College [President's Medal](#) for Excellence in Research | **2022** European Bioinorganic Chemistry [EuroBIC Medal](#) | **2022** International EPR Society [Best Paper Award](#) (for Nat. Commun. 2021) | **2016** Outstanding contribution to teaching ADEPT award, Queen Mary University of London

GRANTS WON *Recent selection (total > £4 M of which £3.8 M as principal investigator, PI)*

“Spins and superconducting circuits for advanced spectroscopy”, EPSRC, **£1.05M**, PI (2022-2025) | “Synchronized Structure & Dynamics Investigations of Ionic Liquids by Pulse EPR”, *Leverhulme Trust*, **£307k**, Co-Investigator (2022-2024) | “PEPR - A centre for Pulse Electron Paramagnetic Resonance spectroscopy”, EPSRC, **£2.3M**, PI (2020-2024) | “Film-electrochemical EPR: a new method to investigate redox-based catalysis”, *Leverhulme*, **£271k**, PI (2019-2023)

INVITED TALKS and CONFERENCE ORGANISATION: Plenary Talks (4): 11th St. Andrews Centre of Magnetic Resonance Meeting (06/23) | RSC Dalton Conference, Warwick (04/23) | European Bioinorganic Chemistry Conference, Grenoble (07/22) | 43rd Discussion Meeting of the German Chemical Society (09/22). **Invited & Keynote* Talks (total >15) – selection:** EPR in Catalysis Workshop, Max Planck Institute Ringberg (09/23); 19th Euromar Glasgow (07/23); 56th RSC EPR meeting, Leeds (03/23); European Bioenergetic Conference, Aix-en-Provence (08/22); Perspectives in Bioenergetics, Bochum (09/21); ISMAR-APNMR, Osaka (online) (08/21); European Federations EPR meeting*, Brno, Czech Republic (09/2019); International Conference for Bioinorganic Chemistry (07/2019); Quantum Bio•Inorganic Chemistry Conference V* (07/2019). **Invited Seminars (total >25) – selection:** York Univ. (06/2024), Lonon NMR Forum (04/2024) Cambridge Univ. (08/2023); UniSysCat, Berlin (07/2023); Univ. of Stuttgart (06/2023), Leipzig Spin Resonance Colloquium (06/2023), Manchester (05/2023); Max Planck Institute Mülheim (05/2021), Astbury Centre Leeds (02/2021), Crick Institute (02/2021). **Conference Organisation:** PEPR symposium, Imperial, 06/23, >120 participants | 51st Annual International Meeting of the RSC ESR Group (04/2018), >150 delegates

SUPERVISION and MENTORSHIP: Track-record in students and PDRAs securing reserach positions: *all four* PDRAs now at top research institutions, with 4/5 now in *permanent positions* (Cambridge University, CNRS Strasbourg, University of Turin; University of Stuttgart; *all 6 graduated* PhD students either now PDRAs at top institutions or in R&D in industry – first PhD student permanent researcher at the Medical Research Council in Cambridge. **13 current group members (PEPR manager, 2 PDRAs, 10 PhDs)**

TEACHING and OUTREACH: Fellow of the Higher Education Academy | **Developed undergraduate lecture & practical courses** at Imperial and QMUL (EPR, electrochemistry, Bioinorganic Chemistry) | **Selected Outreach activities:** Great Exhibition Road Festival (2019 & 2022, >60k attendees), Imperial Lates (2019, >800 attendees)

POSITIONS OF RESPONSIBILITY: Director of the Centre for Pulse EPR (PEPR) at Imperial College | **Vice-president** (for Europe) of the International EPR Society | **External Advisory board** member for the Institute of Microbiology, Bioenergetics and Biotechnology at Aix-Marseille University | **Panel Member & Reviewer** for EPSRC, BBSRC, Human Frontiers Science Program, Boehringer Ingelheim Foundation, U.S. Department of Energy, Danish National Science Foundation, The Royal Society, Max Planck Institute, French National Research Agency | **Reviewer** for Science, Energy & Environmental Science, JACS, Angewandte Chemie, Chemical Science, Nature Reviews Chemistry, Nature Communications | **PhD external examiner** (Marseille, St. Andrew's, Manchester, Halle, Dortmund, York)

5 selected PUBLICATIONS (h-index 22, >2400 citations, [google scholar](#), ORCID ID [0000-0002-5291-4328](#))

1. M Seif-Eddine, S Cobb, Y Dang, K Abdiaziz, M Bajada, E Reisner, [MM Roessler*](#), *Nature Chemistry*, **2024**, 1-9
2. J Eisermann, JJ Wright, J Wilton-Ely*, J Hirst, [MM Roessler*](#), *RSC Chemical Biology*, **2023**, 6, 386-398
3. KH Richardson, JJ Wright, M Simenas, J Thiemann, AM Esteves, G McGuire, WK Myers, JLL Morton, M Hippler, [MM Nowaczyk](#), [GT Hanke*](#), [MM Roessler*](#), *Nature Communications*, **2021**, 12, 5387, Imperial [Press Release](#)
4. JJ Wright, JG Fedor, J Hirst, [MM Roessler*](#), *BMC Biology* **2020** 18, 1-13
5. K Abdiaziz, E Salvadori, KP Sokol, E Reisner, [MM Roessler*](#), *Chemical Communications*, **2019**, 55, 8840-8843