

MAXIE MAGDALENA RÖßLER

IMPERIAL COLLEGE LONDON

Department of Chemistry

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EDUCATION AND TRAINING

University of Oxford	Chemistry	MChem (1 st Class)	2006
Beijing Foreign Studies University	Mandarin	Best student of class award	
German Academic Exchange Service			2008
Scholar (Beijing, China)			
University of Oxford	Inorganic Chemistry (Prof. Fraser Armstrong FRS)	DPhil	2012

Two career breaks (children born 2013 and 2018).

PROFESSIONAL APPOINTMENTS

Postdoctoral Research Associate	University of Oxford (Prof. Fraser Armstrong FRS)	2012 - 2013
Lecturer	Queen Mary University of London	2013 - 2018
Senior Lecturer	Queen Mary University of London	2018 - 2019
Senior Lecturer	Imperial College London	2019 - 2022
Reader in EPR Spectroscopy	Imperial College London	2022 - 2025
Professor of Chemistry	Imperial College London	from 09/2025

HONORS AND AWARDS

Royal Society of Chemistry Joseph Black Prize	2024
Imperial College President's Medal for Excellence in Research	2023
European Bioinorganic Chemistry EuroBIC Medal	2022
International EPR Society Best Paper Award (for paper in Nat. Commun. 2021)	2022
Outstanding Contribution to Teaching Award, Queen Mary University of London	2016
DPhil thesis commendation based on exceptional examiner's comments	2012
Jeol prize (Runner Up) of the Electron Spin Resonance Group of the Royal Society of Chemistry	2011
Vice Chancellor's Award for DPhil work, University of Oxford	2011
PhD scholarship, University of Oxford	2008-2012
Margaret K B Day Scholarship for excellence in doctoral research	2010
Scholarship "Language and professional training in China" German Academic Exchange Service (DAAD)	2006-2008
Academic Scholarships from University College, University of Oxford	2002-2006
Turbutt prizes for practical organic chemistry, University of Oxford	2003 & 2004

RESEARCH SUPPORT

Total funding: >£4M (of which £3.8M as Principal Investigator, PI) – grants >£100k listed:

Co- I	Leverhulme Trust. Decoding ACS Enzyme Mechanisms: A biomimetic Approach to Carbon Fixation. £437k, 2025-2028 (equal share of funding)
PI	European Union. Marie Skłodowska-Curie Individual Fellowship to Dr Blaise Geoghegan. £197k, 2024-2026
PI	EPSRC. Spins and Superconducting Circuits for Advanced Spectroscopy, £1.05M, 2022-2025
Co-I	Leverhulme Trust. Synchronized Structure & Dynamics Investigations of Ionic Liquids by Pulse EPR, £307k, 2022-2024 (equal share of funding)
PI	EPSRC. PEPR - A Centre for Pulse Electron Paramagnetic Resonance Spectroscopy, £2.3M, 2020-2024
PI	Leverhulme Trust. Film-Electrochemical EPR: A New Method to Investigate Redox-Based Catalysis, £271k, 2019-2023

PI EPSRC "First Grant": How does respiratory complex I pump protons? £125k (capped at this threshold at that time), 2015-2018.

SCIENTIFIC LEADERSHIP

Director of the Centre for Pulse EPR (PEPR), Imperial College London, since 2021

Prize Committee Member: Royal Society of Chemistry Analytical Division, since 2025

External Advisory Board Member: UK National EPR Facility (University of Manchester) since 2024;
Institute of Microbiology, Bioenergetics and Biotechnology (Aix-Marseille University) since 2022

Vice-President (for Europe), International EPR Society, 2021-2024

Panel member for UKRI: Engineering and Physical Sciences Research Council, National Research Facility Panel (2021)

Peer Reviewer for Journals: Nature, Science, Journal of the American Chemical Society, Angewandte Chemie, Nature Communications, Nature Reviews Chemistry, Energy and Environmental Science, etc.

Reviewer for Funding Agencies: UKRI (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, The Leverhulme Trust

Conference organization: Centre for Pulse EPR (PEPR) symposium, Imperial College, 06/2023, >120 participants; 51st Annual International Meeting of the Royal Society of Chemistry Electron Spin Resonance Group (04/2018), >150 delegates

External PhD thesis examiner: University of York, University of St. Andrews (twice), University of Manchester, University of Halle (Germany), University of Dortmund (Germany), Aix-Marseille University (France)

Outreach activities: Great Exhibition Road Festival (2019 & 2022) Engaged >60,000 attendees; Imperial Lates (2019) Engaged >800 attendees; hosted secondary school students in my laboratory (twice in 2024); PhD student appeared on local radio, with the recording now available on all major podcast platforms (2025)

INVITED TALKS AND LECTURES (selection)

Plenary, Opening and Prize Talks

Plenary Talk at 13th European Federation of EPR (EFEPR) conference, Brno, Czech Republic, 08/2026 (upcoming)

RSC Joseph Black Prize Award, Royal Society of Chemistry Analytical Research Forum, London, UK, 06/2025

Prize Lecture (part of RSC Joseph Black Prize tour), University of Warwick, 03/2025

Opening speaker at 6th Reaction Monitoring Symposium at the University of Bath, 01/2025

Sole External Speaker at Essex University Annual Life Sciences Away Day, 10/2024

Royal Society of Chemistry, Inorganic Chemistry Dalton Conference, Warwick, 04/2023

St. Andrews Centre of Magnetic Resonance Meeting, University of St. Andrews, 06/2023

Prize Lecture (for EuroBIC medal): European Bioinorganic Chemistry Conference (EuroBIC), Grenoble, 07/2022

German Chemical Society Discussion Meeting, 09/2022

Invited (recent selection from >30)

The 2025 World Laureates Association (WLA) Forum (Asia's highest-profile global conference), Shanghai, China, 10/2025 (upcoming)

International Conference on Magnetic Resonance Spectroscopy (ISMAR), California, USA, 04/2025

2nd Advanced Catalysis and Materials for Energy Conversion Conference 2025 (student-led conference), Muelheim, Germany 03/2025

8th Ringberg Workshop on Structural Biology, Max Planck institute for Medical Research, Ringberg Castle, Germany, 02/2025

Rocky Mountains Conference on Magnetic Resonance, Colorado, USA, 08/2024

EPR in Catalysis Workshop, Max Planck Institute for Chemical Energy Conversion, Ringberg Castle, Germany, 09/2023

European Magnetic Resonance Conference (Euromar), Glasgow, UK, 07/2023

European Bioenergetics Conference, Aix-en-Provence, France, 08/2022

Invited Seminars (recent selection from >40)

Eidgenössische Technische Hochschule (ETH), Switzerland, 09/2025 (upcoming)

University of Nottingham, UK, 06/2025 (upcoming)

Massachusetts Institute of Technology, USA, 04/2025

Boston University, USA, 04/2025

University of California Santa Barbara, USA, 04/2025

University of California Davis, USA, 04/2025

University of Bonn, Germany, 07/2024

University of York, 06/2024

University of Cambridge, 08/2023

Max Planck Institute for Chemical Energy Conversion, 05/2021

TEACHING AND MENTORSHIP

Fellow of the Higher Education Academy (since 2015)

Undergraduate and Practical Course Development:

- Electron paramagnetic resonance spectroscopy introduced into 2nd year undergraduate core curriculum (Imperial)
- Electrochemistry introduced as practical course into undergraduate core curriculum (Queen Mary University)
- Redesign of 3rd year course on Bioinorganic Chemistry (Imperial)

Mentorship Track Record:

- All 6 PDRA's 'graduates' now have positions at top academic institutions, with 4 in permanent positions (Cambridge University, UK; CNRS Strasbourg, France; University of Turin, Italy; University of Stuttgart, Germany; University of Lisbon, Portugal; Tsinghua University, China)
- 7 PhD graduates moved on to positions in research or industry; first PhD student now a permanent researcher at Medical Research Council (Cambridge)
- 17 current group members: 1 permanent facility manager (for Centre for Pulse EPR), 2 PDRA's, 9 PhDs, 5 MRes

Summer Training Schools:

- Organised 3-day workshop on EPR spectroscopy at PEPR (Centre for Pulse EPR) for PhD students from across Europe, as part of the European Cooperation in Science and Technology (COST) action "Iron-sulphur clusters: from chemistry to immunology" (2024)
- Invited to teach at EFEPR (European Federation of EPR) week-long training school in EPR Spectroscopy for PhD students at the University of Geneva, Switzerland (2023)
- Invited to teach EPR spectroscopy at "Metals in Biology" training school at Aix-en-Provence University, Marseille, France (2020 & 2022)

LANGUAGES

German – native

English – fluent (near-native fluency, full professional proficiency)

French – fluent

Italian – fluent

Mandarin Chinese – conversational

1. **Rogers, C.J., Koutsoukos, S., Eisermann, J., Wylie, L., Smith, G.J., Welton, T., Roessler*, M.M.**, Revealing the Nature of Non-Covalent Interactions in Ionic Liquids by Combined Pulse EPR and 19F NMR Spectroscopy, *Angew. Chem. Int. Ed.*, 2025, e202504882, DOI: [10.1002/anie.202504882](#)
2. **Hoang, T.N., Wu-Lu, M., Collauto, A., Hagedoorn, P.-L., Alexandru, M., Henschel, M., Kordasti, S., Mroginski, M.A., Roessler, M.M., Ebrahimi, K.H.** The [2Fe-2S] cluster of mitochondrial outer membrane protein mitoNEET has an O₂-regulated nitric oxide access tunnel, *FEBS Letters*, 2025, 599, 952-970 DOI: [10.1002/1873-3468.15097](#), with cover feature, DOI: [10.1002/1873-3468.14916](#)
3. **Perez-Jimenez, M., Geoghegan, B.L., Collauto, A., Roessler*, M.M., Crimmin, M.R.** A Paramagnetic Nickel–Zinc Hydride Complex, *Angew. Chem. Int. Ed.*, 2024, 63, e202411828, DOI: [10.1002/anie.202411828](#)
4. **Eisermann, E., Liang, Y., Wright, J.J., Clifford, E., Wilton-Ely, J.D.E.T., Kuimova, M.K., Roessler*, M.M.** The Effect of Reactive Oxygen Species on Respiratory Complex I Activity in Liposomes, *Chem. Eur. J.*, 2024, 30, e202402035, DOI: [10.1002/chem.202402035](#); with cover feature: [10.1002/chem.202485504](#)
5. **Wilson, D.W.N., Thompson, B.C., Collauto, A., Hooper, R.X., Knapp, C.E., Roessler*, M.M., Musgrave, R.A.** Mixed Valence {Ni²⁺Ni¹⁺} Clusters as Models of Acetyl Coenzyme A Synthase Intermediates, *J. Am. Chem. Soc.*, 2024, 146, 21034-21043, DOI: [10.1021/jacs.4c06241](#)
6. **Facchetti, D., Dang, Y., Seif-Eddine, M., Geoghegan, B.L., Roessler*, M.M.**, Film-electrochemical EPR spectroscopy to investigate electron transfer in membrane proteins in their native environment, *Chem. Commun.*, 2024, 60, 12690-12693, DOI: [10.1039/D4CC04013A](#), with cover feature; invited contribution to 60th anniversary edition with author feature.
7. **Neumann, T., Thompson, B.C., Hebron, D., Graycon, D.M., Collauto, A., Roessler, M.M., Wilson, D.W.N., Musgrave, R.A.** Heterobimetallic 3d–4f complexes supported by a Schiff-base tripodal ligand, *Dalton Trans.*, 2024, 53, 9921-9932
8. **Raabe, J.-C., Hombach, L., Poller, M.J., Collauto, A., Roessler, M.M., Vorholt, A., Beine, A.K., Albert, J.** Synthesis and Characterization of Co (II) Substituted Keggin-Type Polyoxometalates as Novel Catalysts for the Hydroformylation of 1-Hexene in a Thermomorphic Solvent System, *ChemCatChem*, 2024, 16, e202400395, DOI: [10.1002/cctc.202400395](#)
9. **Seif-Eddine, M., Cobb, S.J., Dang, Y., Abdiaziz, K., Bajada, M., Reisner, E & Roessler*, M. M.** Operando film-electrochemical EPR spectroscopy tracks radical intermediates in surface-immobilized catalysts. *Nat. Chem.* 2024, 16, 1015–1023. DOI: [10.1038/s41557-024-01450-y](#)
10. **Dobre, A., Koutsoukos, S., Philippi, F., Rauber, D., Kay, C.W.M., Palumbo, O., Roessler, M.M., & Welton, T.** Understanding the effects of targeted modifications on the 1 : 2 Choline And GErnate structure. *Phys. Chem. Chem. Phys.*, 2024, 26, 8858-8872. DOI: [10.1039/d3cp05271k](#)
11. **Eisermann, J., Wright, J.J., Wilton-Ely, J.D.E.T, Hirst, J., & Roessler*, M. M.** Using light scattering to assess how phospholipid–protein interactions affect complex I functionality in liposomes. *RSC Chem. Biol.*, 2023, 4, 386-398. DOI: [10.1039/d2cb00158f](#)
12. **Pichler, C.M., Bhattacharjee, S., Lam, E., Su, L., Collauto, A., Roessler, M.M., Cobb, S.J., Badiani, V.M., Rahaman, M., & Reisner, E.** Bio-Electrocatalytic Conversion of Food Waste to Ethylene via Succinic Acid as the Central Intermediate. *ACS Catal.* 2022, 12, 21, 13360–13371. DOI: [10.1021/acscatal.2c02689](#)
13. **Ji, Y., Wei, L., Da, A., Stark, H., Hagedoorn, P.-L., Ciofi-Baffoni, S., Cowley, S.A., Louro, R.O., Todorovic, S., Mroginski, M.A., Nicolet, Y., Roessler, M.M., Le Brun, N.E., Piccioli, M., James, W.S., Hagen, W.R. and Ebrahimi, K.H.** Radical-SAM dependent nucleotide dehydratase (SAND), rectification of the names of an ancient iron-sulfur

enzyme using NC-IUBMB recommendations. *Front. Mol. Biosci.*, 2022, 9: 1032220.

DOI: [10.3389/fmolb.2022.1032220](https://doi.org/10.3389/fmolb.2022.1032220)

14. **Richardson, K.H., Seif-Eddine, M., Sills, A., Roessler*, M.M.** Chapter Eight: Controlling and exploiting intrinsic unpaired electrons in metalloproteins. *Methods Enzymol.*, 2022, 6, 233-296. DOI: [10.1016/bs.mie.2022.02.014](https://doi.org/10.1016/bs.mie.2022.02.014)
15. **Richardson, K.H., Wright, J.J., Šimėnas, M., Thiemann, J., Esteves, A.M., McGuire, G., Myers, W.K., Morton, J.J.L., Hippler, M., Nowaczyk, M.M., Hanke, G.T., & Roessler*, M.M.** Functional basis of electron transport within photosynthetic complex I. *Nat. Commun.* 2021, 12, 5387. DOI: [10.1038/s41467-021-25527-1](https://doi.org/10.1038/s41467-021-25527-1)
16. **Cirulli, M., Salvadori, E., Zhang, Z.-H., Dommett, M., Tuna, F., Bamberger, H., Lewis, J. E. M., Kaur, A., Tizzard, G. J., van Slageren, J., Crespo-Otero, R., Goldup, S. M., Roessler*, M. M.** Rotaxane Co^{II} Complexes as Field-Induced Single-Ion Magnets. *Angew. Chem. Int. Ed.* 2021, 60, 16051. DOI: [10.1002/anie.202103596](https://doi.org/10.1002/anie.202103596)
17. **Eisermann, J., Seif-Eddine, M., Roessler*, M.M.** Insights into metalloproteins and metallodrugs from electron paramagnetic resonance spectroscopy. *Curr. Opin. Chem. Biol.*, 2021, 61, 114-122. DOI: [10.1016/j.cbpa.2020.11.005](https://doi.org/10.1016/j.cbpa.2020.11.005)
18. **Hameedi, M.A., Grba, D.N., Richardson, K.H., Jones, A.J.Y., Song, W., Roessler*, M.M., Wright, J.J., Hirst, J.,** A conserved arginine residue is critical for stabilizing the N2 FeS cluster in mitochondrial complex I. *J. Biol. Chem.*, 2021, 296, 100474. DOI: [10.1016/j.jbc.2021.100474](https://doi.org/10.1016/j.jbc.2021.100474)
19. **Šimėnas, M., O'Sullivan, J., Zollitsch, C.W., Kennedy, O., Seif-Eddine, M., Ritsch, I., Hülsmann, M., Qi, M., Godt, A., Roessler, M.M., Jeschke, G., Morton, J.J.L.** A sensitivity leap for X-band EPR using a probehead with a cryogenic preamplifier. *J. Magn. Reson.*, 2021, 322, 106876. DOI: [10.1016/j.jmr.2020.106876](https://doi.org/10.1016/j.jmr.2020.106876)
20. **Wright, J.J., Fedor, J.G., Hirst, J. & Roessler*, M.M.** Using a chimeric respiratory chain and EPR spectroscopy to determine the origin of semiquinone species previously assigned to mitochondrial complex I. *BMC Biol* 2020, 18, 54 DOI: [10.1186/s12915-020-00768-6](https://doi.org/10.1186/s12915-020-00768-6)
21. **Bridges, H.R., Fedor, J.G., Blaza, J.N., Di Luca, A., Jussupow, A., Jarman, O.D., Wright, J.J., Agip, A-H, A., Gamiz-Hernandez, A.P., Roessler, M.M., Kaila, V.R.I. & Hirst, J.** Structure of inhibitor-bound mammalian complex I. *Nat Commun.*, 2020, 11, 5261. DOI: [10.1038/s41467-020-18950-3](https://doi.org/10.1038/s41467-020-18950-3)
22. **Bajada, M.A., Roy, S., Warnan, J., Abdiaziz, K., Wagner, A., Roessler, M.M. & Reisner, A** Precious-Metal-Free Hybrid Electrolyzer for Alcohol Oxidation Coupled to CO₂-to-Syngas Conversion. *E. Angew. Chem. Int. Ed.* 2020, 59, 15633. DOI: [10.1002/anie.202002680](https://doi.org/10.1002/anie.202002680).
23. **Luo, H., Papaioannou, N., Salvadori, E., Roessler, M.M., Ploenes, G., van Eck, E.R.H., Tanase, L.C., Feng, J., Sun, Y., Yang, Y., Danaie, M., Belen Jorge, A., Sapelkin, A., Durrant, J., Dimitrov, S.D., Titirici, M-M.** Manipulating the Optical Properties of Carbon Dots by Fine-Tuning their Structural Features. *ChemSusChem* 2019, 12, 4432, DOI: [10.1002/cssc.201901795](https://doi.org/10.1002/cssc.201901795)
24. **Mellor, S.B., Vinde, M.H., Nielsen, A.Z., Hanke, G.T., Abdiaziz, K., Roessler, M.M., Burow, M., Motawia, M.S., Møller, B.M., Jensen, P.E.** Defining optimal electron transfer partners for light-driven cytochrome P450 reactions. *Metab. Eng.*, 2019, 55, 33-43, DOI: [10.1016/j.ymben.2019.05.003](https://doi.org/10.1016/j.ymben.2019.05.003)
25. **Cirulli, M., Kaur, A., Lewis, J.E.M., Zhang, Z., Kitchen, J.A., Goldup, S.M. & Roessler*, M.M.** Rotaxane-Based Transition Metal Complexes: Effect of the Mechanical Bond on Structure and Electronic Properties. *J. Am. Chem. Soc.*, 2019, 141, 879-889. DOI: [10.1021/jacs.8b09715](https://doi.org/10.1021/jacs.8b09715)
26. **Abdiaziz, K., Salvadori, E., Sokol, K.P., Reisner, E. & Roessler*, M.M.** Protein film electrochemical EPR spectroscopy as a technique to investigate redox reactions in biomolecules. *Chem. Commun.*, 2019, 55, 8840-8843. DOI: [10.1039/c9cc03212f](https://doi.org/10.1039/c9cc03212f); invited contribution to Emerging Investigator Issue
27. **Martínez-Lumbreras, S., Krysztofinska, E.M., Thapaliya, A., Spilotros, A., Dijana, M-V., Salvadori, E., Roboti, P., Nyathi, Y., Muench, J.H., Roessler, M.M., Svergun, D.I., High, S., Isaacson, R.L.** Structural complexity of the co-

- chaperone SGTA: a conserved C-terminal region is implicated in dimerization and substrate quality control. *BMC Biol* 2018, 16, 76. DOI: [10.1186/s12915-018-0542-3](https://doi.org/10.1186/s12915-018-0542-3)
28. **Roessler*, M.M., & Salvadori, E.** Principles and applications of EPR spectroscopy in the chemical sciences. *Chem. Soc. Rev.*, 2018, 47, 2534-2553. DOI: [10.1039/c6cs00565a](https://doi.org/10.1039/c6cs00565a)
 29. **Volbeda, A., Mouesca, J.M., Darnault, C., Roessler, M.M., Parkin, A., Armstrong, F.A., Fontecilla-Camps, F.** X-ray structural, functional and computational studies of the O₂-sensitive E. coli hydrogenase-1 C19G variant reveal an unusual [4Fe–4S] cluster. *Chem. Commun.*, 2018, 54, 7175-7178. DOI: [10.1039/c8cc02896f](https://doi.org/10.1039/c8cc02896f)
 30. **Le Breton, N., Wright, J.J., Jones, A.J.Y., Salvadori, E., Bridges, H.R., Hirst, J. & Roessler*, M.M.** Using Hyperfine Electron Paramagnetic Resonance Spectroscopy to Define the Proton-Coupled Electron Transfer Reaction at Fe–S Cluster N₂ in Respiratory Complex I. *J. Am. Chem. Soc.* 2017, 139, 45, 16319–16326. DOI: [10.1021/jacs.7b09261](https://doi.org/10.1021/jacs.7b09261),
selected by editor as a feature article
 31. **Adamson, H., Robinson, M., Wright, J.J., Flanagan, L.A., Walton, J., Elton, D., Gavaghan, D.J., Bond, A.M., Roessler, M.M. & Parkin, A.** Retuning the Catalytic Bias and Overpotential of a [NiFe]-Hydrogenase via a Single Amino Acid Exchange at the Electron Entry/Exit Site. *J. Am. Chem. Soc.* 2017, 139, 31, 10677–10686, DOI: [10.1021/jacs.7b03611](https://doi.org/10.1021/jacs.7b03611)
 32. **Flanagan, L.A., Wright, J.J., Roessler, M.M., Moir, J.W. & Parkin, A.** Re-engineering a NiFe hydrogenase to increase the H₂ production bias while maintaining native levels of O₂ tolerance. *Chem. Commun.*, 2016, 52, 9133-9136. DOI: [10.1039/c6cc00515b](https://doi.org/10.1039/c6cc00515b)
 33. **Wright, J.J., Salvadori, E., Bridges, H.R., Hirst, J., Roessler*, M.M.** Small-volume potentiometric titrations: EPR investigations of Fe-S cluster N₂ in mitochondrial complex I. *J. Inorganic Biochem.*, 2016, 162, 201-206. DOI: [10.1016/j.jinorgbio.2016.04.025](https://doi.org/10.1016/j.jinorgbio.2016.04.025)
 34. **Hirst, J. & Roessler*, M.M.** Energy conversion, redox catalysis and generation of reactive oxygen species by respiratory complex I. *BBA*, 2016, 7, 872-883. DOI: [10.1016/j.bbabbio.2015.12.009](https://doi.org/10.1016/j.bbabbio.2015.12.009)

OTHER PUBLICATION

1. Invited contribution to “Voices Article” in *Cell Structure*: “Introducing Bonnie Murphy, Ville Kaila, Maxie Roessler, Volha Chukhutsina, Alisia Fadini, Sonya Hanson, Filipe Maia, and Kirill Kovalev”, *Cell Structure*, 33, 829-835, May 2025, DOI: [10.1016/j.str.2025.04.003](https://doi.org/10.1016/j.str.2025.04.003)

PREPRINTS

1. **Fang, F., Li, A., Geoghegan, B. L., Webb, T., Dang, Y., Bennett, T. L., Fu, K., Azaden, A., Vanin, F., Sills, A.J., Long, N.J., Haque, S.A., Roessler, M. M.*** Conjugated molecular wires on indium-tin oxide: investigation of the electron transfer mechanism and application in tin perovskite solar cells, under revision in *Nature Chemistry*, ChemRxiv. 2024; doi:10.26434/chemrxiv-2024-gqwk5
2. **Eleanor Clifford, John Wright, Alberto Collauto, Judy Hirst, Maxie M. Roessler*** A key radical intermediate in the active site of respiratory complex I defined by pulse EPR spectroscopy, under review in *Angewandte Chemie*, ChemRxiv. 2025; doi:10.26434/chemrxiv-2025-br3z5
3. **Lars Stevens-Cullinane, Thomas W Rees, Calum Evans, Po-Yu Ho, Mika Kintzel, Yew Mun Yip, Ruoning Jia, Jonathan Bailey, Eleanor Clifford, Ruqaiya Alam, Sarah Maslen, Stephane Mouilleron, Adrien Pasquier, Ok-Ryul Song, Scott Warchal, Joanna Redmond, Michael Howell, Svend Kjaer, Mark Skehel, Manuel M Müller, Echan O Johnson, Maxie M Roessler, Jeannine Hess,** Light-Activated Metal-dependent Protein Degradation (LAMP-D): A Heterobifunctional Ruthenium (II) Photosensitizer Targeting New Delhi Metallo-β-lactamase 1, under review in *J. Am. Chem Soc.*, ChemRxiv. 2025; doi:10.26434/chemrxiv-2025-jx9jt

4. **Gediminas Usevicius, Mantas Simenas, Blaise L Geoghegan, Oscar W Kennedy, Ignas Pocius, Patrick Hogan, Ana Villanueva Ruiz de Temino, Jean-Baptiste Verstraete, Paulina Verbaityte, Angeliki Chatziathanasiou, G Antilen Jacob, Mindaugas Kamarauskas, Marius Treideris, Paulius Gecys, Joseph Alexander, Vidmantas Kalendra, Juras Banys, Maxie M Roessler, John JL Morton**, Versatile high-sensitivity EPR using superconducting spiral microresonators, under review in Nature Sensors; ChemRxiv. 2025; doi:10.26434/chemrxiv-2025-c3qv1