20 July 2025

LIN SU

School of Biological and Behavioural Sciences, Queen Mary University of London
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Interests: Bio-hybrid systems design within Engineering Biology, studying the electron transfer at the interfaces of microorganisms and (nano)materials, for bioelectrical communications, artificial photosynthesis, etc.

PROFESSIONAL

Queen Mary University of London (School of Biological and Behavioural Sciences), UK
Lecturer in Engineering Biology — Since 2025
University of Cambridge (Department of Chemistry), UK
Early Career Research Fellow; advisor: Prof. Erwin Reisner — 2021-2025
Fellow of Lucy Cavendish College — 2022-2025
Rice University (Department of BioSciences), USA
Research Specialist; advisor: Prof. Caroline Ajo-Franklin — 2020-2021
Lawrence Berkeley National Laboratory (Molecular Foundry), USA
Research Assistant; advisor: Prof. Caroline Ajo-Franklin — 2016-2020

EDUCATION

Southeast University (School of Biological Science and Medical Engineering), China
PhD Biomedical Engineering (advisors: Prof. Degang Fu, Prof. Caroline Ajo-Franklin) — 2014-2021
Topic: 'Engineering extracellular electron transport for sensing'
MS Biophysics (advisor: Prof. Degang Fu) — 2011-2014
Topic: 'Nanotechnology enhanced microbial fuel cells performance"
Nanjing Agricultural University (College of Life Sciences), China
BA Biotechnology (advisor: Dr. Yunzhi Zhu) — 2006-2010

FELLOWSHIPS AND SCHOLARSHIPS

2022-2025 Leverhulme Early Career Fellowship, Leverhulme Trust, UK.
2022-2025 Isaac Newton Trust Grant, Isaac Newton Trust, Trinity College, University of Cambridge, UK.
2016-2018 Chinese Government Scholarship, China Scholarship Council, China.

AWARDS

2024 Merit award for outstanding and sustained contribution, University of Cambridge.
2019 The 14th "Chunhui Cup" innovation and entrepreneurship competition for overseas Chinese scholars, Chinese Ministry of Education and the Chinese Ministry of Science and Technology.
2018 1st Place, NanoArt Image Contest, Molecular Foundry, Lawrence Berkeley National Laboratory.
2014 Outstanding Volunteer, Star Volunteer, 2nd Summer Youth Olympic Games Organizing Committee.
2014 Outstanding graduate student, Southeast University.
2012 Merit student, Southeast University.
2010 Outstanding graduate student, Nanjing Agriculture University.
2009 Outstanding student cadre, Nanjing Agriculture University.

TEACHING

Mentoring, co-supervised **10 postgraduate students**, **3 rotation student projects** and **1 undergraduate project**.
Module organiser, BIO753P - Genome Editing in Biotechnology and Synthetic Biology, MSc in Biotechnology & Synthetic Biology, Queen Mary University London, since 2025.
Teaching Associate, Centre for Doctoral Training in Nanoscience and Nanotechnology (NanoDTC), University of Cambridge, since 2024.
Supervision, Chemical Biology and Drug Discovery, Part III Chemistry, University of Cambridge, 2022-2023.

Graduate student advisor, International Genetically Engineered Machine class, Rice University, 2020.
Judge, Rice Undergraduate Research Symposium (RURS), Rice University, 2020.
Teaching assistant, Modern analytical instruments and experiments, Southeast University, 2014-2016.

GENERAL CONTRIBUTIONS

Council Member, Lucy Cavendish College, University of Cambridge, 2023-2025.
Governing Body Member and Trustee, Lucy Cavendish College, University of Cambridge, 2022-2025.
Committee Member, Cambridge Chem&Bio LTD, 2023-2025.
Organization Committee Member of 1st International SynBYSS Conference, 2024.
Academic Board Member, Cambridge Life Science Network, 2023-2024.
Organization Committee Member of Biophotoelectrochemical Workshop, 2023.
Interviewer for Admissions Selection, Lucy Cavendish College, University of Cambridge, 2022-2024.
PhD and Postdoc interview panel member, Reisner Lab, University of Cambridge, since 2022.
Committee Member, Engineering Biology Interdisciplinary Research Centre, University of Cambridge, 2021-2023.
Session Chair, Biological RIG Showcase, University of Cambridge, 2021.
Peer reviewer, Postgraduate Research Scholarship, Xi'an Jiaotong-Liverpool University, 2020.

Reviewer for: *ACS Nano, Microbial Biotechnology, Biotechnology for Biofuels and Bioproducts*, *ACS ES&T Water, STAR Protocols, Frontiers of Environmental Science & Engineering, Frontiers in Bioengineering and Biotechnology, Frontiers in Microbiology, Biomolecules, International Journal of Molecular Sciences*. **Youth Editorial Board Member** for: *Green Carbon* (since 2023), *Frontiers of Environmental Science & Engineering* (2023-2024). **Associate Editor** for: *Biotechnology for Food Future* (since 2025), *Frontiers in Microbiology* (since 2025).

CONFERENCE PRESENTATIONS

Invited Oral, *5th International Solar Fuels Conference*, Newcastle, UK, 2025.
Invited Oral, Workshop – PFAS and beyond, Cranfield University, 2025.
Invited Oral, *3rd International Outstanding Young Scholars Environment Forum*, Beijing, China, 2024.
Invited Oral, *The 3rd Europe-China Eco-Environmental Forum for Young Scholars*, online, 2024.
Invited Oral, Synthetic Biology Young Speaker Series (SynBYSS), online, 2023.
Invited Oral, *The 2nd Europe-China Eco-Environmental Forum for Young Scholars*, Leuven, Belgium, 2023.
Invited Oral, *1st International Conference on Green Carbon*, Qingdao, China, 2023.
Oral, *8th International Society for Microbial Electrochemistry and Technology*, Chania, Greece, 2022.
Invited Oral, *Engineering Biology Research Consortium 2022 Annual Meeting*, Berkeley, USA, 2022.
Oral, *5th Asia-Pacific International Society for Microbial Electrochemistry and Technology*, Harbin, China, 2021.
Oral, *1st Virtual International Society for Microbial Electrochemistry and Technology Meeting*, online, 2020.
Oral, *7th International Society for Microbial Electrochemistry and Technology*, Okinawa, Japan, 2019.
Oral, *Bioenergetics seminar*, Berkeley, USA, 2018.
Oral, *Materials Research Society Meeting*, Boston, USA, 2017.

PUBLICATIONS

Google Scholar profile: https://scholar.google.com/citations?user=XBwfd50AAAAJ (Citations = 1400, h-index = 16)

Representative ones:

1. **Su, L.**†, Rodríguez-Jiménez, S.†, Short, M. I. M. and Reisner, E., 2025. Adapting Gas Fermenting Bacteria for Light-driven Domino Valorization of CO_2. *Chemical Science*. (†Contributed equally) (Cover article)
2. Atkinson, J.T.†, **Su, L.**†, Zhang, X., Bennett, G.N., Silberg, J. and Ajo-Franklin, C.M., 2022. Real-time environmental monitoring of contaminants using living electronic sensors. *Nature*. (†Contributed equally)
3. **Su, L.**, Fukushima, T. & Ajo-Franklin, C. M. 2020. A hybrid cyt *c* maturation system enhances the bioelectrical performance of engineered *Escherichia coli* by improving the rate-limiting step. *Biosensors and Bioelectronics*.
4. **Su, L.** and Ajo-Franklin, C.M., 2019. Reaching full potential: bioelectrochemical systems for storing renewable energy in chemical bonds. *Current opinion in biotechnology*.
5. Light, S. H., **Su, L.**, Rivera-Lugo, R., Cornejo, J. A., Louie, A., Iavarone, A. T., Ajo-Franklin, C. M. & Portnoy, D. A. 2018. A flavin-based extracellular electron transfer mechanism in diverse Gram-positive bacteria. *Nature*.