#### Erwin Reisner

Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge CB2 1EW, UK e-mail: reisner@ch.cam.ac.uk, dob: 22<sup>nd</sup> December 1979

Lab website: http://www-reisner.ch.cam.ac.uk/. Lab X handle: @ReisnerLab

# Current academic positions

| 2024       |            |                        | · - ·       |                |          | - 1 1 .      |
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2017 – present Royal Academy of Engineering Chair in Emerging Technologies

2017 – present Professor of Energy & Sustainability, Department of Chemistry, University of Cambridge

2011 – present Fellow of St. John's College, Cambridge

# Current entrepreneurial positions

2024 – present Co-Founder & Chief Scientific Officer, waste-to-fuel technology start-up, Protonera Ltd

# Previous academic appointments

| 2015 – 2017 | University Reader, Department of Chemistry, University of Cambridge                     |
|-------------|---|
| 2012 – 2019 | Director, Christian Doppler Laboratory for Sustainable SynGas Chemistry, Cambridge      |
| 2010 - 2024 | College Lecturer, Organic Chemistry, St. John's College, Cambridge                      |
| 2010 – 2015 | University Lecturer, Department of Chemistry, University of Cambridge                   |
| 2010 – 2015 | EPSRC Career Acceleration Fellow, Department of Chemistry, University of Cambridge      |
| 2009 – 2010 | EPSRC Career Acceleration Fellow, School of Chemistry, The University of Manchester, UK |

# Previous postdoc positions

| 2008 – 2009 | BBSRC Research Associate, Inorganic Chemistry Laboratory, University Oxford, UK |
|-------------|---|
|             | Supervisor: Prof. Fraser A. Armstrong   |
| 2008 - 2009 | College Lecturer, Inorganic Chemistry, St. John's College, Oxford, UK           |
| 2005 – 2007 | Erwin Schrödinger Research Fellow, Massachusetts Institute of Technology, USA   |
|             | Supervisor: Prof. Stephen J. Lippard  |

# **Education and degrees**

| 2010        | Habilitation (professorial qualification), Faculty of Chemistry, University of Vienna, Austria |  |
|-------------|--|--|
|             | Thesis Topic: 'Bio-inspired generation of sustainable energy carriers'                         |  |
| 2002 - 2005 | PhD with distinction (grade 1.0), Faculty of Chemistry, University of Vienna, Austria          |  |
|             | (including 1-year research at Instituto Superior Técnico, Lisbon, Portugal)                    |  |
|             | Thesis Topic: 'Redox activated ruthenium anticancer drugs'                                     |  |
|             | Supervisor: Prof. Bernhard K. Keppler  |  |
| 1998 – 2002 | Diploma with distinction, 5-year programme with integrated BSc (grade 1.0) and MSc             |  |
|             | (grade 1.0), Faculty of Chemistry, University of Vienna, Austria                               |  |
|             | (including Frasmus exchange semester, New University of Lishon, Portugal)                      |  |

#### Awards

| 2024        | Tilden Prize, Royal Society of Chemistry, UK   |
|-------------|--|
| 2023        | Hughes Medal, Royal Society, UK  |
| 2022        | Galvani Prize, The Bioelectrochemical Society, International                           |
| 2018        | Corday Morgan Prize, Royal Society of Chemistry, UK                                    |
| 2018        | Lee Hsun Young Scientist Award, Chinese Academy of Science, Shenyang, China            |
| 2017        | Japan Society of Coordination Chemistry International Award for Creative Work, Japan   |
| 2014        | Harrison-Meldola Memorial Prize, Royal Society of Chemistry, UK                        |
| 2014        | Grammaticakis-Neumann Prize, Swiss Chemical Society, Switzerland                       |
| 2014        | Young Investigator Award, Royal Society of Chemistry Bioinorganic Group, UK            |
| 2011        | 'Science Award', Federal State of Upper Austria, Austria                               |
| 2009        | Anton-Paar Science Award, Austrian Chemical Society, Austria                           |
| 2003        | National Award for academic excellence (Würdigungspreis), Ministry of Science, Austria |
| 2000 - 2004 | University Awards for academic excellence, University of Vienna, Austria               |

### Research Funding & Fellowships (>£1M)

#### **Principal Investigator Grants:**

• Source: Royal Academy of Engineering and UK Department of Science, Innovation & Technology Programme: Chair in Emerging Technologies

Title: Solar-powered Upcycling of Biomass and Plastic Waste to Sustainable Chemicals

Value: £2.5 million. Grant ID: CIET-2324-83. Duration: 2024-2034.

• Source: European Research Council (ERC) Advanced Grant (UKRI funded)

Title: Semi-biological Domino Catalysis for Solar Chemical Synthesis

Value: €2.5 million. Acronym: domino4chem. Grant ID: EP/X030563/1. Duration: 2023-2028.

• Source: European Union: FP7, Horizon 2020, UKRI underwrite; Marie Skłodowska-Curie Fellowships (16x) 16 individual postdoctoral fellowships on solar chemistry projects Value: €4.5 million. Duration: 2013-2026.

Source: European Research Council (ERC) Consolidator Grant (CoG) and Proof of Concept (PoC)
 Title CoG: Semi-artificial photosynthesis with wired enzymes (Acronym: MatEnSAP; Grant ID: 682833)
 Title PoC: Solar-driven reforming of waste into hydrogen (Acronym: SolReGen, Grant ID: 966581)
 Value: €2.15 million (€2M CoG, €0.15M PoC). Duration: 2016-2023.

• Source: United Kingdom Research & Innovation (UKRI)

Title: Cambridge Circular Plastics Centre (Circular Economy Approaches to Eliminate Plastic Waste)

Value: £1 million. Acronym: CirPlas. Grant ID: EP/S025308/1. Duration: 2019-2021.

• Source: Biotechnology & Biological Sciences Research Council (BBSRC) 3 projects on biohybrids for solar chemistry; Grant IDs: BB/S00159X/1, BB/K010220/1, BB/J000124/1 Value: £1 million. Duration: 2013-2023.

• Source: Christian Doppler Research Association and OMV Group, Austria Title: Christian Doppler Laboratory for Sustainable SynGas Chemistry Value: €2.3 million. Duration: 2012–2019.

• Source: EPSRC Career Acceleration Fellowship and EPSRC Research Leaders Award Title: Bio-inspired Solar Light Driven Hydrogen Production, Grant ID: EP/H00338X Value: £1 million. Duration: 2009-2015.

#### **Co-Investigator Grants:**

Source: Engineering & Physical Sciences Research Council (EPSRC)
 Title: EPSRC Centre for Doctoral Training in Integrated Functional Nano (i4Nano)
 Value: £6.3 million. Grant ID: EP/S022953/1. Duration: 2019-2028

• Source: European Union, Horizon 2020, EU ITN Network
Title: Solar chemicals for a sustainable Europe by hybrid molecule semiconductor devices
Value: €4 million. Acronym: Solar2Chem. Grant ID: 861151. Duration: 2020-2024

Source: European Union, Horizon 2020, EU FET OPEN
 Title: Soap Film based Artificial Photosynthesis
 Value: €3.2 million. Acronym: Sofia, Grant ID: 828838. Duration: 2019-2023

• Source: Engineering & Physical Sciences Research Council (EPSRC)
Title: EPSRC Centre for Doctoral Training in Sustainable and Functional Nano
Value: £4.6 million. Grant ID: EP/L015978/1. Duration: 2014-2023

| Scientific and research leadership at the University of Cambridge (current only)  Director (Pi) of URIC (ambridge Creative Circular Plastics Centre (CirPlas)  https://www.energv.cam.ac.uk/Plastic. Waste  Co-director (Co-l) of EPSRC Doctoral Training Centre for Nanotechnology https://www.energv.cam.ac.uk/Plastic. Waste  Co-director (Co-l) of EPSRC Doctoral Training in Automated Synthesis  Steering Committee Member of Energy Interdisciplinary Research Centre  Steering Committee Member of Global Challenges Strategic Research Initiative  Selection Committee Member of Junior Research Fellowships, St. John's College  Member (Cambridge lead) of Tohoku University (AIMR)-Cambridge Research Centre  International and national panel membership to support research excellence (recent only)  2019 – present  International and national panel membership to support research excellence (recent only)  Member (Co-l), EU EITN ETN consortium 'Solar2Chem'  Member and providing support for EU and UK solar fuel and chemistry initiatives (AMPEA, Energy-X., Surnise, Sunergy and Suner-C, Mission Innovation on Clean Energy)  Committee on Interdisciplinary Research, Novo Nordisk Foundation, Denmark  Advisory board, Fundamental Research Centre on Artificial Photosynthesis, China  Evaluation committee, Swedish Foundation for Strategic Research  Evaluation committee, Swedish Foundation for Strategic Research  Evaluation committee, Polish Ministry of Science  2019 – 2023  Evaluation committee, Polish Ministry of Science  Evaluation committee, Polish Ministry of Science  2019 – 2021  Evaluation committee, A*STAR, Singapore  Director, UK Solar Fuels Network (part of EPSRC SUPERGEN SuperSolar consortium)  Membership in scientific societies  2014 – present  International advisory board membership of scientific journals  Companism of the American Chemical Society (Gdch), Germany  Member (Otheris, Biophotoelectrochemical Workshop, Cambridge, UK  Co-Chair, Royal Society of Chemistry Chemical Science Symposium (online)  Co-organiser, "Hybrids for Solar F   |  |  |  |  |  |
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| https://www.energy.cam.ac.uk/Plastic Waste Co-director (Co.n) of EPSRC Doctoral Training Centre for Nanotechnology https://www.nanodic.cam.ac.uk/ 2019 – present 2017 – present 2017 – present 2018 – present 2018 – present 2019 – present 2019 – present 2010 – present 2011 – present 2011 – present 2012 – present 2012 – present 2013 – present 2014 – present 2015 – present 2015 – present 2016 – present 2016 – present 2017 – present 2018 – present 2018 – present 2019 – present 2010 – present 2010 – present 2010 – present 2011 – present 2012 – present 2013 – present 2014 – present 2015 – present 2015 – present 2016 – present 2016 – present 2017 – present 2018 – present 2018 – present 2019 – 2018 2019 – 2018 2019 – 2018 2019 – 2018 2019 – 2018 2019 – 2018 2019 – 2018 2019 – 2018 2019 – 2018 2019 – 2018 2019 – 2018 2019 – 2018 2019 – 2019 2019 – 2019 2019 – 2019 2019 – 2019 2019 – 2019 2019 – 2019 2019 – 2019 2019 – 2019 2019 – 2019 2019 – 2019 2010 – 2019 2010 – 2019 2010 – 2019 2010 – 2019 2010 – 2019 2011 – present 2011 – present 2012 – present 2013 – present 2014 – present 2014 – present 2015 – present 2015 – present 2016 – present 2016 – present 2017 – 2010 2018 – 2010 2019 – 2010 2019 – 2010 2019 – 2010 2019 – 2010 2019 – 2010 2019 – 2010 2010 – 2010 2010 – 2010 2010 – 2010 2010 – 2010 2010 – 2010 2010 – 2010 2010 – 2010 2010 – 2010 2010 – 2010 2010 – 2010 2010 – 2010 2010 – 2010 2010 – 2010 2010 – 2010 – 2010 2010 – 2010 – 2010 2010 – 2010 – 2010 2010 – 2010 – 2010 – 2010 2010 – 2010 – 2010 – 2010 – 2010 2010 – 2010  |  |  |  |  |  |
| 2014 - present   Co-director (Co-I) of EPSRC Dotoral Training Centre for Nanotechnology  | · · · · · · · · · · · · · · · · · · ·  | · · · · · · · · · · · · · · · · · · ·  |  |  |  |
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| 2013 − present   Steering Committee Member of Global Challenges Strategic Research Initiative   2013 − present   Member (Cambridge lead) of Tohoku University (AIMR)−Cambridge Research Centre   International and national panel membership to support research excellence (recent only) 2019 − present   Member (Co-I), EU ITN ETN consortium 'Solar-Zchem'   2012 − present   Member and providing support for EU and UK solar fuel and chemistry initiatives (AMPEA, Energy-X, Sunrise, Sunergy and Suner-C, Mission Innovation on Clean Energy) 2021 − present   Committee on Interdisciplinary Research, Novo Nordisk Foundation, Demark   2023 − 2024   Evaluation committee, Swedish Foundation for Strategic Research   2023 − 2024   Evaluation committee, Swedish Foundation for Strategic Research   2022 − 2023   Evaluation committee, Swiss Federal Office of Energy   2022 − 2023   Evaluation committee, Swiss Federal Office of Energy   2022 − 2023   Evaluation committee, Polish Ministry of Science   2022 − 2023   Evaluation committee, Research Council of Norway   2019 − 2021   Scientific Advisory Board, Max Planck Institute of Colloids & Interfaces, Germany   2019 − 2021   Director, UK Solar Fuels Network (part of EPSRC SUPERGEN Supersolar consortium)   2014 − present   Fellow of the Royal Society of Chemistry (FRSC), UK (Member from 2008−2014)   2015 − present   Chemical Science   2016 − present   Chemical Science   2018 − present   Chemical Science   2019 − present   Chemical Science   2010 − Co-organiser, Noval Society of Chemistry (Chemistry Congress, The Hague, The Netherlands   2021   Co-Chair, Biophotoelectrochemical Workshop, Cambridge, UK   2022   Co-Ordaniser, Noval Society of Chemistry Congress, The Hague, The Netherlands   2021   Co-Organiser, Noval Society of Chemistry Congress, The Hague, The Netherlands   2022   Co-Organiser, Noval Society of Chemistry Congress, The Hague, The Net  | •  |  |  |  |  |
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| Energy-X, Sunrise, Sunergy and Suner-C, Mission Innovation on Clean Energy)  2021 – present Advisory board, Fundamental Research Centre on Artificial Photosynthesis, China  2023 – 2024 Evaluation committee, Swedish Foundation for Strategic Research  2023 – 2024 Evaluation committee, Swiss Federal Office of Energy  Member (Co-1), EU FET OPEN consortium 'Soap Film Based Artificial Photosynthesis'  2022 – 2023 Evaluation committee, Polish Ministry of Science  2022 – 2023 Evaluation committee, Research Council of Norway  2019 – 2023 Scientific Advisory Board, Max Planck Institute of Colloids & Interfaces, Germany  2019 – 2021 Director, UK Solar Fuels Network (part of EPSRC SUPERGEN SuperSolar consortium)  Membership in scientific societies  2014 – present Fellow of the Royal Society of Chemistry (FRSC), UK (Member from 2008–2014)  Member of the German Chemical Society, USA  International advisory board membership of scientific journals  2019 – present Angewandte Chemie (previously Kuratorium)  Organisation and support of scientific meetings, colloquia and knowledge exchange  2023 Co-Chair, Biophotoelectrochemical Workshop, Cambridge, UK  2020 Co-organiser, 'Hybrids for Solar Fuel Generation' symposium, Pacifichem, USA (online)  2021 Co-Chair, Royal Society of Chemistry Chemical Science Symposium (online)  2022 Co-Chair, nanoGE symposium on Solar Fuels in Berlin, Germany  2039 Co-Chair, nanoGE symposium on Solar Fuels in Berlin, Germany  2040 Co-organiser, 4th UK Solar Fuels Network Symposium, Cambridge, UK  2050 Co-organiser, 2nd UK-Japan Solar Fuels Symposium, Tokyo, Japan  2061 Co-organiser, 2nd UK-Japan Solar Fuels Symposium, Tokyo, Japan  2071 Co-organiser, 2nd UK-Japan Solar Fuels Symposium, Tokyo, Japan  2072 Co-organiser, 2nd UK-Japan Solar Fuels Symposium, Tokyo, Japan  2073 Co-organiser, 2nd UK-Japan Solar Fuels Symposium, Tokyo, Japan  2074 Co-organiser, 2nd UK-Japan Solar Fuels Symposium, Tokyo, Japan  2075 Co-organiser, 2nd UK-Japan Solar Fuels Symposium, Decomption of Companiser, 2nd UK-Japan Solar Fue   | •  |  |  |  |  |
| 2021 – present Advisory board, Fundamental Research Centre on Artificial Photosynthesis, China 2023 – 2024 Evaluation committee, Swiss Federal Office of Energy 2019 – 2023 Member (Co-I), EU FET OPEN consortium 'Soap Film Based Artificial Photosynthesis' 2022 – 2023 Evaluation committee, Polish Ministry of Science 2022 – 2023 Evaluation committee, Research Council of Norway 2019 – 2023 Scientific Advisory Board, Max Planck Institute of Colloids & Interfaces, Germany 2019 – 2021 Director, UK Solar Fuels Network (part of EPSRC SUPERGEN SuperSolar consortium) 2017 – 2021 Director, UK Solar Fuels Network (part of EPSRC SUPERGEN SuperSolar consortium) 2017 – present Member of the Royal Society of Chemistry (FRSC), UK (Member from 2008–2014) 2017 – present Member of the American Chemical Society, USA 2019 – present Chemical Science 2018 – present Chemical Science 2018 – present Chemical Science 2019 – present Chemical Science 2018 – present Chemical Science 2019 – present Chemical S   | •  |  |  |  |  |
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| Co-Chair, Royal Society of Chemistry Chemical Science Symposium (online) Co-organiser, 'Hybrids for Solar Fuel Generation' symposium, Pacifichem, USA (online) Chair, 3 <sup>rd</sup> Faraday Discussions on Artificial Photosynthesis in Cambridge, UK Chair, 7 <sup>th</sup> UK Solar Fuels Network Symposium in Cambridge, UK Co-Chair, nanoGE symposium on Solar Fuels in Berlin, Germany Co-organiser, Symposium at 43 <sup>rd</sup> Int. Conference on Coordination Chemistry, Sendai, Japan Co-organiser, 4 <sup>th</sup> UK Solar Fuels Network Symposium, Cambridge, UK Co-convener, 6 <sup>th</sup> European Chemical Society (EuCheMS) Conference, Seville, Spain Organising committee, 1 <sup>st</sup> Energy & Environmental Materials Forum, Gold Coast, Australia Co-organiser, 2 <sup>nd</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan Co-organiser, 1 <sup>st</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan Co-organiser, RSC 'Challenges in Chemical Renewable Energy' Conference, Cambridge, UK   |  | · · · · · · · · · · · · · · · · · · ·  |  |  |  |
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| Chair, 3 <sup>rd</sup> Faraday Discussions on Artificial Photosynthesis in Cambridge, UK Chair, 7 <sup>th</sup> UK Solar Fuels Network Symposium in Cambridge, UK Co-Chair, nanoGE symposium on Solar Fuels in Berlin, Germany Co-organiser, Symposium at 43 <sup>rd</sup> Int. Conference on Coordination Chemistry, Sendai, Japan Co-organiser, 4 <sup>th</sup> UK Solar Fuels Network Symposium, Cambridge, UK Co-convener, 6 <sup>th</sup> European Chemical Society (EuCheMS) Conference, Seville, Spain Organising committee, 1 <sup>st</sup> Energy & Environmental Materials Forum, Gold Coast, Australia Co-organiser, 2 <sup>nd</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan Co-organiser, 1 <sup>st</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan Co-organiser, RSC 'Challenges in Chemical Renewable Energy' Conference, Cambridge, UK  | •  |  |  |  |  |
| Co-Chair, 7 <sup>th</sup> UK Solar Fuels Network Symposium in Cambridge, UK Co-Chair, nanoGE symposium on Solar Fuels in Berlin, Germany Co-organiser, Symposium at 43 <sup>rd</sup> Int. Conference on Coordination Chemistry, Sendai, Japan Co-organiser, 4 <sup>th</sup> UK Solar Fuels Network Symposium, Cambridge, UK Co-convener, 6 <sup>th</sup> European Chemical Society (EuCheMS) Conference, Seville, Spain Organising committee, 1 <sup>st</sup> Energy & Environmental Materials Forum, Gold Coast, Australia Co-organiser, 2 <sup>nd</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan Co-organiser, 1 <sup>st</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan Co-organiser, RSC 'Challenges in Chemical Renewable Energy' Conference, Cambridge, UK  | _  |  |  |  |  |
| Co-Chair, nanoGE symposium on Solar Fuels in Berlin, Germany Co-organiser, Symposium at 43 <sup>rd</sup> Int. Conference on Coordination Chemistry, Sendai, Japan Co-organiser, 4 <sup>th</sup> UK Solar Fuels Network Symposium, Cambridge, UK Co-convener, 6 <sup>th</sup> European Chemical Society (EuCheMS) Conference, Seville, Spain Organising committee, 1 <sup>st</sup> Energy & Environmental Materials Forum, Gold Coast, Australia Co-organiser, 2 <sup>nd</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan Co-organiser, 1 <sup>st</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan Co-organiser, RSC 'Challenges in Chemical Renewable Energy' Conference, Cambridge, UK  | •  | , , , , , , , , , , , , , , , , , , ,  |  |  |  |
| Co-organiser, Symposium at 43 <sup>rd</sup> Int. Conference on Coordination Chemistry, Sendai, Japan Co-organiser, 4 <sup>th</sup> UK Solar Fuels Network Symposium, Cambridge, UK Co-convener, 6 <sup>th</sup> European Chemical Society (EuCheMS) Conference, Seville, Spain Organising committee, 1 <sup>st</sup> Energy & Environmental Materials Forum, Gold Coast, Australia Co-organiser, 2 <sup>nd</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan Co-organiser, 1 <sup>st</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan Co-organiser, RSC 'Challenges in Chemical Renewable Energy' Conference, Cambridge, UK   | •  | , ,  |  |  |  |
| <ul> <li>Co-organiser, 4<sup>th</sup> UK Solar Fuels Network Symposium, Cambridge, UK</li> <li>Co-convener, 6<sup>th</sup> European Chemical Society (EuCheMS) Conference, Seville, Spain</li> <li>Organising committee, 1<sup>st</sup> Energy &amp; Environmental Materials Forum, Gold Coast, Australia</li> <li>Co-organiser, 2<sup>nd</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan</li> <li>Co-organiser, 1<sup>st</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan</li> <li>Co-organiser, RSC 'Challenges in Chemical Renewable Energy' Conference, Cambridge, UK</li> </ul>  |  |  |  |  |  |
| <ul> <li>Organising committee, 1<sup>st</sup> Energy &amp; Environmental Materials Forum, Gold Coast, Australia</li> <li>Co-organiser, 2<sup>nd</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan</li> <li>Co-organiser, 1<sup>st</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan</li> <li>Co-organiser, RSC 'Challenges in Chemical Renewable Energy' Conference, Cambridge, UK</li> </ul>  |  |  |  |  |  |
| <ul> <li>Co-organiser, 2<sup>nd</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan</li> <li>Co-organiser, 1<sup>st</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan</li> <li>Co-organiser, RSC 'Challenges in Chemical Renewable Energy' Conference, Cambridge, UK</li> </ul>  |  |  |  |  |  |
| 2014 Co-organiser, 1 <sup>st</sup> UK-Japan Solar Fuels Symposium, Tokyo, Japan<br>2013 Co-organiser, RSC 'Challenges in Chemical Renewable Energy' Conference, Cambridge, UK  | 2016 Organising committee, 1 <sup>st</sup> Energy & Environmental Materials Forum, Gold Coast, Australia |  |  |  |  |
| 2013 Co-organiser, RSC 'Challenges in Chemical Renewable Energy' Conference, Cambridge, UK   |  |  |  |  |  |
|  |  |  |  |  |  |
| 2011 Conganisar BSC Workshop 'Salar Water Splitting' Baston USA  |  |  |  |  |  |
| ZUII CU-UIRAIIISEI, NOC WUIKSIIUP OUIAI WALEI OPIILLIIIR, BUSLUII, USA   | 2011 Co-organ  | iser, RSC Workshop 'Solar Water Splitting', Boston, USA                          |  |  |  |
| 2020 – present International Committee, Conference on Photochemical Conversion and Storage (IPS)   | 2020 – present li  | nternational Committee, Conference on Photochemical Conversion and Storage (IPS) |  |  |  |
| 2013 – 2019 Organiser, Christian Doppler Lectures & Symposia, Cambridge, UK  |  |  |  |  |  |
| 2011 – 2014 Colloquium & Lord Lewis Lecture Organiser, Department of Chemistry, Cambridge, UK  |  |  |  |  |  |

2014 – 2017 Member, RSC Faraday Standing Committee on Conferences, London, UK

# **Presentations** (Total: >330 lectures presented with >270 invited/keynote/plenary/named/award lectures) **Selected research presentations since 2022 (in person talks only):**

#### Upcoming:

- Plenary. 46<sup>th</sup> International Conference on Coordination Chemistry, Odense, Denmark
- Plenary. Conference on Sustainable Chemistry for Net Zero, St. Andrews, UK
- Plenary. 5th International solar fuels conference (ISF2025), Newcastle, UK
- Keynote. ACS Spring National Meeting, San Diego, USA
- Plenary. 7<sup>th</sup> International Symposium on Solar Fuels and Solar Cells, Dalian, China

#### Completed:

- Distinguished lecture. German Chemical Society & Barbara Mez-Starck Colloquium, University of Ulm, Germany
- Plenary. 22<sup>nd</sup> Cardiff Chemistry Conference, Cardiff, UK
- Plenary. 25<sup>th</sup> Netherlands' Catalysis and Chemistry Conference (N3C), Noordwijkerhout, The Netherlands
- Keynote. 244<sup>th</sup> Electrochemical Society (ECS) Meeting, Gothenburg, Sweden
- Annual St. John's College Lecture. University of Hull, UK
- Keynote. Sunlight- and Power-to-X conference, Uppsala University, Sweden
- Plenary. 8th International Conference on Semiconductor Photochemistry, Strasbourg, France
- Plenary. EuChemS European Inorganic Chemistry Conference (EICC), Vienna, Austria
- Invited opening lecture. 'Electrocatalysis Meets Organic Electrosynthesis' Summerschool, Interlaken, Switzerland
- Gerhard Schmidt Lecture. Faculty of Chemistry, Weizmann Institute of Science, Israel
- Silliman Seminar in Inorganic Chemistry. Department of Chemistry, Yale University, USA
- Plenary. 'Frontiers in renewable fuels and chemicals' symposium, Tarragona (ICIQ), Spain
- Invited. Sungkyun International Solar Forum (SISF 2022), Seoul, South Korea
- Invited. Department of Chemistry and Applied Biosciences, ETH Zürich, Switzerland
- Keynote. SolTech 2022 Conference, Munich, Germany
- Plenary. Annual Meeting of German Catalysis Society, Weimer, Germany
- Plenary. 38<sup>th</sup> Biennial Meeting of the Spanish Royal Society of Chemistry (RSEQ), Granada, Spain
- Plenary. 4<sup>th</sup> Small Molecule Activation conference, Cancun, Mexico
- Galvani Prize Lecture. 27th International Symposium on Bioelectrochemistry & Bioenergectics, Antwerp, Belgium
- Plenary. RSC Chemical Nanoscience and Nanotechnology Annual Symposium, London, UK

#### International EIC Horizon Prize 'Fuel from the Sun: Artificial Photosynthesis' competition (£5M)

• Coordinator of Cambridge team that demonstrated a prototype solar-powered reactor ('artificial leaves') for direct CO<sub>2</sub> to syngas conversion in Joint Research Centre in Ispra (Italy) in 2022. Joint 2<sup>nd</sup> prize.

# Video: <a href="https://www.youtube.com/watch?v=rLad1mkHY60">https://www.youtube.com/watch?v=rLad1mkHY60</a>

#### Outreach

I coordinate events, often with my team, and give lectures to explain my science to the public. My engagements range from visits to local schools, inviting children to the chemistry department, presenting at the Cambridge Science Festival or Pint of Science Festival as well as reaching out to alumni. We showcase scientific experiments to make science widely accessible and understood.

#### Online resources include:

- News public outreach: <a href="https://tinyurl.com/ub9hauj">https://tinyurl.com/uzxu8xmc</a>
- Videos: <a href="http://www-reisner.ch.cam.ac.uk/videos.html">http://www-reisner.ch.cam.ac.uk/videos.html</a>
- Press articles about our work: <a href="http://www-reisner.ch.cam.ac.uk/press.html">http://www-reisner.ch.cam.ac.uk/press.html</a>
- Cambridge Festival: <a href="http://www-reisner.ch.cam.ac.uk/CamFest.html">http://www-reisner.ch.cam.ac.uk/CamFest.html</a>

# Selected outreach presentations in Cambridge (UK) since 2022 (in person talks only):

- Primary School Lecture with Experiments. Newham Croft Primary School (Year 6, age: 10 years)
- Secondary School Lecture with Experiments. Parkside Community College (Year 10, age: 14 years)
- Student Society Lecture. Kelvin Club, Peterhouse College
- Student Society Lecture. Churchill Science Society, Churchill College
- Student Society Lecture. Cambridge University Chemistry Society
- Student Society Lecture. Cambridge University Scientific Society
- Public Lecture. Pint of Science Festival, Panton Arms
- Public Lecture with Device Display. Cambridge Festival
- Alumni Lecture. St. John's College
- Alumni Lecture with Device Display. Yusuf Hamied Department of Chemistry

#### **Publications**

#### http://www-reisner.ch.cam.ac.uk/publications.html

Total: 238 peer-reviewed journal publications & 6 patents. ORCID: 0000-0002-7781-1616 Citation metrics (google scholar source: here): H-index, 89; citation rate, >3'500 pa; total citations, 25'000.

#### List of Peer-Reviewed Publications

[number] unnamed co-authors, \*corresponding authors

#### Publications as Principal Investigator in Cambridge

- **238.** Cobb, Pornrungroj, Andrei, Badiani, Su, Manuel, Pereira & **Reisner**\* *Device*, **2024**, *2*, 100505. "Photoelectrochemical-thermoelectric device for semi-artificial CO<sub>2</sub> fixation employing full solar spectrum utilization"
- **237.** Kalathil, Rahaman, Lam, Augustin, Greer & **Reisner\*** *Angew. Chem. Int. Ed.,* **2024**, e202409192 "Solar-driven Methanogenesis through Microbial Ecosystem Engineering on Carbon Nitride"
- **236.** Ming, Cobb, Rahaman, Sammy, **Reisner** & Wheatley\* *Adv. Funct. Mater.*, **2024**, 2411006 "Anisotropic Heterobimetallic Nanomaterials with Controlled Composition for O<sub>2</sub> Reduction at Low Loading"
- 235. Macpherson, Lawson, [3], Reisner, Euser\*, Stranks\* & Gentleman\* ACS Catal., 2024, 14, 12006–15 "Influence of Electron Donors on the Charge Transfer Dynamics of Carbon Nanodots in Photocatalytic Systems"
- **234.** Yeung, Andrei, Lee, Durrant & **Reisner\*** *Adv. Mater.*, **2024**, *36*, 2404110 "Organic Semiconductor-BiVO<sub>4</sub> Tandem Devices for Solar-Driven H<sub>2</sub>O and CO<sub>2</sub> Splitting"
- **233.** Robertson, Zhang, **Reisner**, Butt & Jeuken\* *Chem. Sci.*, **2024**, 15, 9893–914 "Engineering of bespoke photosensitiser–microbe interfaces for enhanced semi-artificial photosynthesis"
- **232.** Bonke, Trezza, Bergamasco, [3], Chiavazzo\* & **Reisner\*** *J. Am. Chem. Soc.,* **2024**, *146*, 15648–58 "Optimization of Self-Assembled Photocatalytic CO<sub>2</sub> Reduction Performance Using Machine Learning Algorithms"
- **231.** Pan, Dai, [14], **Reisner**, [2], Hagfeldt\*, Grätzel\* & Stranks\* *Nature*, **2024**, 628, 765–70 "High carrier mobility along the [111] orientation in Cu<sub>2</sub>O photoelectrodes"
- **230.** Kim, Bhattacharjee, Lam, Casadevall, Rodríguez-Jiménez & **Reisner\*** *Small*, **2024**, 2400057 "Photocatalytic CO<sub>2</sub> reduction using homogeneous carbon dots with a molecular cobalt catalyst"
- **229.** Liu, Pulignani, Webb, Cobb, Rodríguez-Jiménez, [2] & **Reisner\*** *Chem. Sci.,* **2024**, 6088–94 "Electrostatic [FeFe]-hydrogenase–carbon nitride assemblies for efficient solar hydrogen production"
- 228. Sun, Bhattacharjee, Xiao\*, Li, [4], Reisner, MacManus-Driscoll\* *J. Mater. Chem. C*, 2024, 12, 4779–91 "Low-temperature open-atmosphere growth of WO₃ thin films with tunable and high-performance photoresponse"
- **227.** Seif-Eddine, Cobb, Dang, Abdiaziz, Bajada, **Reisner** & Roessler\* *Nature Chem.*, **2024**, *16*, 1015–23 "Operando film-electrochemical EPR spectroscopy tracks radical intermediates in surface-immobilized catalysts"
- **226.** Bhattacharjee, Linley & **Reisner\*** *Nature Rev. Chem.,* **2024**, *8*, 87-105 "Solar reforming as an emerging technology for circular chemical industries"
- **225.** Cobb, Rodríguez-Jiménez & **Reisner\*** *Angew. Chem. Int. Ed.,* **2024**, *63*, e202310547 "Connecting Biological and Synthetic Approaches for Electrocatalytic CO<sub>2</sub> Reduction"
- **224.** Rodríguez-Jiménez, Lam, Bhattacharjee & **Reisner\*** *Green Chem.,* **2023,** 25, 10611–21 "Valorisation of lignocellulose and low concentration CO<sub>2</sub> using fractionation—photocatalysis—electrolysis process"
- **223.** Pornrungroj, Annuar, Wang, [2], Andrei & **Reisner\*** *Nature Water*, **2023**, *1*, 952–60 "Hybrid photothermal-photocatalyst sheets for solar-driven overall water splitting coupled to water purification"
- **222.** Bhattacharjee, Guo, Lam, [6], Hollfelder\* & **Reisner**\* *J. Am. Chem. Soc.,* **2023**, *145*, 20355–64 "Chemoenzymatic Photoreforming: A Sustainable Approach for Solar Fuel Generation from Plastic Feedstocks"
- **221.** Casadevall, Lage, Mu, Greer, [4], García-Melchor\* & **Reisner**\* *Nanoscale*, **2023**, 15, 15775-15784 "Size-dependent activity of carbon dots for photocatalytic H<sub>2</sub> generation with a molecular Ni cocatalyst"
- **220.** Bonchio, Bonin\*, [4], **Reisner**, Sarkar, Toma & Robert\* *Nature Catal.*, **2023**, *6*, 657–65 "Best practices for experiments and reporting in photocatalytic CO<sub>2</sub> reduction"
- **219.** Fang, Rahaman, Bharti, **Reisner**, Robert, Ozin & Hu\* *Nature Rev. Methods Primers*, **2023**, *3*, 61 "Photocatalytic CO<sub>2</sub> reduction"
- **218.** Zhang, Casadevall, [2], Butt\*, **Reisner\*** & Jeuken\* *Adv. Funct. Mater.*, **2023**, *33*, 202302204. "Rational Design of Covalent Multiheme Cytochrome-Carbon Dot Biohybrids for Photoinduced Electron Transfer"
- **217.** Lawson, Gentleman, [3], Petit, Frosz, **Reisner\*** & Euser\* *ACS Catal.*, **2023**, *13*, 2300077 "Low-Volume Reaction Monitoring of Carbon Dot Light Absorbers in Optofluidic Microreactors"
- **216.** Kar, Rahaman, Andrei, Bhattacharjee, Roy & **Reisner\*** *Joule*, **2023**, *7*, 1496–514 "Integrated capture and solar-driven utilization of CO<sub>2</sub> from flue gas and air"

- **215.** Pornrungroj, Andrei & **Reisner\*** *J. Am. Chem. Soc.*, **2023**, *145*, 13709–14 "Thermoelectric–Photoelectrochemical Water Splitting under Concentrated Solar Irradiation"
- **214.** Galushchinski, Pulignani, Szalad, **Reisner**, [4], Savateev\* & Antonietti *Solar RRL*, **2023**, *7*, 2300077 "Heterostructured PHI-PTI/Li<sup>+</sup>Cl<sup>-</sup> Carbon Nitrides for Multiple Photocatalytic Applications"
- 213. Rahaman, Andrei, Wright, [5], Baumberg & Reisner\* Nature Energy, 2023, 8, 629–38 "Solar-driven liquid multicarbon fuel production using a standalone perovskite-BiVO<sub>4</sub> artificial leaf"
- **212.** Linley & **Reisner\*** *Adv. Sci.*, **2023**, *10*, 2207314 "Floating Carbon Nitride Composites for Practical Solar Reforming of Pre-Treated Wastes to Hydrogen Gas"
- **211.** Cobb, Dharani, Oliveira, Pereira & **Reisner\*** *Angew. Chem. Int. Ed.*, **2023**, *62*, e202218782 "Carboxysome-Inspired Electrocatalysis using Enzymes for the Reduction of CO<sub>2</sub> at Low Concentrations"
- **210.** Baikie, [3], **Reisner**, [3], Schnedermann\*, Rao\* & Zhang\* *Nature*, **2023**, *615*, 836–40 "Photosynthesis re-wired on the pico-second timescale"
- **209.** Lam, Miller, Linley, Manuel, Pereira & **Reisner\*** *Angew. Chem. Int. Ed.*, **2023**, *62*, e202215894 "Comproportionation of CO<sub>2</sub> and Cellulose to Formate Using a Floating TiO<sub>2</sub>-Enzyme Photocatalyst"
- **208.** Bhattacharjee, Rahaman, Andrei, [3] Pornrungroj & **Reisner\*** *Nature Synth.*, **2023**, *2*, 182–92 "Photoelectrochemical CO<sub>2</sub>-to-fuel conversion with simultaneous plastic reforming"
- **207.** Osorio, Shalvey, Banerji, Saeed, [5], **Reisner**, Major\* & Cowan\* *Chem. Commun.*, **2023**, *59*, 944–47 "Hybrid photocathode based on Ni molecular catalyst and Sb<sub>2</sub>Se<sub>3</sub> for solar H<sub>2</sub> production"
- **206.** Lawson, Gentleman, Pinnell, [3], **Reisner\*** & Euser\* *Angew. Chem. Int. Ed.*, **2023**, *62*, e202214788 "In-situ detection of cobaloxime intermediates during photocatalysis using photonic crystal fiber microreactors"
- **205.** Andrei, Wang, Uekert, Bhattacharjee & **Reisner\*** *Acc. Chem. Res.*, **2022**, *55*, 3376–86 "Solar panel technologies for light-to-chemical conversion"
- **204.** Pichler, Bhattacharjee, Lam, Su, [4], Rahaman & **Reisner\*** *ACS Catal.*, **2022**, *12*, 13360–71 "Bio-electrocatalytic conversion of food waste to ethylene via succinic acid as the central intermediate"
- **203.** Pulignani, Mesa, [2], Giménez\*, Durrant\* & **Reisner\*** *Angew. Chem. Int. Ed.*, **2022**, *61*, e202211587 "Rational design of carbon nitride photoelectrodes with high activity toward organic oxidations"
- **202.** Jenner, Crack, [4], **Reisner**, [2], Cheesman\* & Butt\* *J. Am. Chem. Soc.*, **2022**, *144*, 18296–304 "Reaction of thiosulfate dehydrogenase with a substrate mimic gives insights into the mechanism of catalysis"
- **201.** Kalathil, Miller & **Reisner\*** *Angew. Chem. Int. Ed.*, **2022**, *61*, e202211057 "Microbial fermentation of PET plastic waste for the production of chemicals or electricity"
- **200.** Gentleman, Lawson, Ellis, [5] **Reisner**, Cresswell\* & Euser\* *Chem. Commun.*, **2022**, *58*, 10548–51 "Stern–Volmer analysis of photocatalyst fluorescence within hollow-core photonic crystal fibre microreactors"
- **199.** Andrei, Ucoski, Pornrungroj, Uswachoke, Wang, [12], Friend & **Reisner\*** *Nature*, **2022**, *608*, 518–22 "Floating perovskite-BiVO<sub>4</sub> devices for scalable solar fuel production"
- **198.** Piper, Casadevall, **Reisner**, [2], Gates & Butt\* *Angew. Chem. Int. Ed.*, **2022**, *61*, e202210572 "Photocatalytic removal of the greenhouse gas nitrous oxide by liposomal microreactors"
- **197.** Badiani, Casadevall, Miller, [2], Pereira & **Reisner\*** *J. Am. Chem. Soc.*, **2022**, 144, 14207–16 "Engineering electro- and photocatalytic carbon materials for CO<sub>2</sub> reduction by formate dehydrogenase"
- **196.** Wang, Kalathil, Pornrungroj, Sahm & **Reisner**\* *Nature Catal.*, **2022**, *5*, 633–41 "Bacteria–photocatalyst sheet for sustainable carbon dioxide utilization"
- **195.** Li, Vijeta, Casadevall, Gentleman, Euser & **Reisner\*** *ACS Catal.*, **2022**, *12*, 8155–63 "Bridging plastic recycling and photocatalysis: deconstruction of polystyrene via a C–H oxidation pathway"
- **194.** Andrei, Jagt, Rahaman, [2], MacManus-Driscoll\*, Hoye\* & **Reisner\*** *Nature Mater.*, **2022**, *21*, 864–68 "Long-term solar water and CO<sub>2</sub> splitting with photoelectrochemical BiOI–BiVO<sub>4</sub> tandems"
- 193. Rodríguez-Jiménez, Song, [6] Hammarström\* & Reisner\* J. Am. Chem. Soc., 2022, 144, 9399–412 "Self-assembled liposomes enhance electron transfer for efficient photocatalytic CO<sub>2</sub> reduction"
- **192.** Bozal-Ginesta, [8], **Reisner**, Brudvig, Wang & Durrant\* *J. Am. Chem. Soc.*, **2022**, *144*, 8454–59 "Spectroelectrochemistry of water oxidation kinetics in molecular versus heterogeneous oxide Ir electrocatalysts"
- **191.** Riesgo-Gonzalez, Bhattacharjee, [4], Grey, **Reisner\*** & Wright\* *Inorg. Chem.,* **2022**, *61*, 6223–33 "Single-source deposition of MO<sub>x</sub> films containing Zr and 3d transition metals for catalytic water oxidation"
- **190.** Sahm, Ciotti, Mates-Torres, [4] Garcia-Melchor\* & **Reisner\*** *Chem. Sci.,* **2022**, *13*, 5988–98 "Tuning the local chemical environment of ZnSe with dithiols towards photocatalytic CO<sub>2</sub> reduction"
- **189.** Vijeta, Casadevall & **Reisner\*** *Angew. Chem. Int. Ed.,* **2022**, *61*, e202203176 "An integrated carbon nitride-nickel photocatalyst for the amination of aryl halides using sodium azide"

- **188.** Cobb, Badiani, Dharani, Wagner, [2], Pereira & **Reisner\*** *Nature Chem.*, **2022**, *14*, 417–24 "Fast CO<sub>2</sub> hydration kinetics impair heterogeneous but improve enzymatic CO<sub>2</sub> reduction catalysis"
- **187.** Edwardes Moore, Cobb, [2] Pereira & **Reisner\*** *Proc. Natl. Acad. Sci. U.S.A.,* **2022**, *119*, e2114097119 "Understanding the local chemical environment of bioelectrocatalysis"
- **186.** Badiani, Cobb, Wagner, Oliveira, Zacarias, Pereira & **Reisner\***, *ACS Catal.*, **2022**, *12*, 1886–97 "Elucidating film loss and the role of H-bonding of adsorbed redox enzymes by electrochemical QCM analysis"
- **185.** Antón García, Edwardes Moore, Bajada, [4], Warnan\* & **Reisner\***, *Nature Synth.*, **2022**, *1*, 77–86 "Photoelectrochemical hybrid cell for unbiased CO<sub>2</sub> reduction coupled to alcohol oxidation"
- **184.** Wang, Pornrungroj, Linley & **Reisner\*** *Nature Energy*, **2022**, 7, 13–24 "Strategies to improve light utilization in solar fuel synthesis"
- **183.** Bhattacharjee, Andrei, [2], Pichler & **Reisner\*** *Adv. Funct. Mater.,* **2022**, *32*, 2109313 "Reforming of biomass and plastic waste using a bias-free Cu<sub>30</sub>Pd<sub>70</sub>|perovskite|Pt photoelectrochemical device"
- **182.** Klein, Rodríguez-Jiménez, [5], **Reisner**, Brouwer, Bonnet\* *Chem. Eur. J.*, **2021**, *27*, 17203–12 "Shorter alkyl chains enhance diffusion and electron transfer between dye and catalysts in liposomes"
- **181.** Wen, Wan, Vijeta, Casadevall, Buglioni, **Reisner\*** & Noel\* *ChemSusChem.,* **2021**, *14*, 5265–70 "Photocatalytic C–H azolation of arenes using heterogeneous carbon nitride in batch and flow"
- **180.** Tanentzap\*, Cottingham, Fonvielle, Riley, [4], **Reisner** & Lebreton *PLoS Biol.*, **2021**, *19*, e3001389 "Microplastics and anthropogenic fibre concentrations in lakes reflect surrounding land use"
- **179.** Edwardes Moore, Andrei, [2], Pereira & **Reisner\*** *Angew. Chem. Int. Ed.*, **2021**, *60*, 26303–07 "Semi-artificial photoelectrochemical tandem leaf with a CO<sub>2</sub>-to-formate efficiency approaching 1%"
- **178.** Lam & **Reisner\***, *Angew. Chem. Int. Ed.* **2021**, *60*, 23306–12 "TiO<sub>2</sub>-Co(terpyridine)<sub>2</sub> photocatalyst for oxidation of cellulose to formate coupled to reduction of CO<sub>2</sub> to syngas"
- 177. Sahm, Ucoski, Roy & Reisner\* ACS Catal., 2021, 11, 11266–77

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