

Reiner Sebastian Sprick

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Education

2009 – 2013 Ph.D. The University of Manchester, United Kingdom (Materials Chemistry).

2008 – 2009 M.Sc. Bergische Universität, Wuppertal, Germany (Chemistry).

2004 – 2008 B.Sc. Bergische Universität, Wuppertal, Germany (Chemistry).

Professional Career

2024.12– Present Associate Professor (Senior Lecturer), Department of Pure and Applied Chemistry, University of Strathclyde, UK.

2020.07 – 2024.11 Assistant Professor (Lecturer), Department of Pure and Applied Chemistry, University of Strathclyde, UK.

2015.09 – 2020.06 Research Lead, Materials Innovation Factory, University of Liverpool, UK.

2013.05 – 2015.08 Postdoctoral Research Associate, University of Liverpool, UK.

Selected Publications

1. Highly concentrated formic acid production by photocatalytic CO₂ conversion, E. McQueen, N. Sakakibara, Y. Tamaki, M. A. Zwijnenburg, O. Ishitani, R. S. Sprick,* *Chem. Sci.* **2024**, *15*, 18146-18160.
2. Polymer photocatalysts with side-chain induced planarity for increased activity for sacrificial hydrogen production from water, R. J. Lyons, Y. Yang, L. Luo, A. I. Cooper, M. A. Zwijnenburg, R. S. Sprick,* *Adv. Energy Mater.* **2024**, *14*, 2303680.
3. Photocatalytic Overall Water Splitting Under Visible Light Enabled by a Particulate Conjugated Polymer Loaded with Palladium and Iridium, Y. Bai, C. Li, L. Liu, Y. Yamaguchi, A. Gardner, M. A. Zwijnenburg, A. J. Cowan, A. Kudo, A. I. Cooper, R. S. Sprick,* *Angew. Chem. Int. Ed.* **2022**, *61*, e2022012.
4. Water oxidation with cobalt-loaded linear conjugated polymer photocatalysts, R. S. Sprick,* C. Zheng, Y. Bai, C. M. Aitchison, Y. Fang, A. J. Cowan, M. A. Zwijnenburg, X. Wang, A. I. Cooper, *Angew. Chem. Int. Ed.* **2020**, *132*, 18854-18859.

Research Interests

1. Photocatalysis, water splitting, hydrogen production, carbon dioxide reduction.
2. Polymer chemistry, conjugated polymers, porous conjugated polymers.
3. Chemical education, public engagement, outreach.

Awards

1. 2025 Frontiers of Science Award for manuscript ‘A mobile robotic chemist’ in 2025.
2. Faculty of Science Teaching Excellence ‘Sustainability Award’ in 2024.
3. UK & Ireland Green Gown Award for Student Engagement in 2022.
4. Award of the GFBU for master thesis in 2010 at the Bergische Universität, Wuppertal, Germany.