Ludmilla Steier

List of Publications by Year in descending order

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| 31 | 5,923 | 24 h-index | 30 |
|----------|----------------|--------------|----------------|
| papers | citations | | g-index |
| 31 | 31 | 31 | 9264 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|----|---|------|-----------|
| 1 | Waterâ€Insensitive Electron Transport and Photoactive Layers for Improved Underwater Stability of Organic Photovoltaics. Advanced Functional Materials, 2022, 32, . | 7.8 | 8 |
| 2 | Insights from Transient Absorption Spectroscopy into Electron Dynamics Along the Gaâ€Gradient in Cu(In,Ga)Se ₂ Solar Cells. Advanced Energy Materials, 2021, 11, 2003446. | 10.2 | 14 |
| 3 | Linking in situ charge accumulation to electronic structure in doped SrTiO3 reveals design principles for hydrogen-evolving photocatalysts. Nature Materials, 2021, 20, 511-517. | 13.3 | 82 |
| 4 | Progress and Perspectives in Photo―and Electrochemicalâ€Oxidation of Biomass for Sustainable Chemicals and Hydrogen Production. Advanced Energy Materials, 2021, 11, 2101180. | 10.2 | 200 |
| 5 | Impact of RbF and NaF Postdeposition Treatments on Charge Carrier Transport and Recombination in Gaâ€Graded Cu(In,Ga)Se ₂ Solar Cells. Advanced Functional Materials, 2021, 31, 2103663. | 7.8 | 7 |
| 6 | The kinetics of metal oxide photoanodes from charge generation to catalysis. Nature Reviews Materials, 2021, 6, 1136-1155. | 23.3 | 161 |
| 7 | Impact of the Synthesis Route on the Water Oxidation Kinetics of Hematite Photoanodes. Journal of Physical Chemistry Letters, 2020, 11, 7285-7290. | 2.1 | 34 |
| 8 | Pt single-atoms supported on nitrogen-doped carbon dots for highly efficient photocatalytic hydrogen generation. Journal of Materials Chemistry A, 2020, 8, 14690-14696. | 5.2 | 62 |
| 9 | In situ observation of picosecond polaron self-localisation in $\hat{l}\pm$ -Fe2O3 photoelectrochemical cells. Nature Communications, 2019, 10, 3962. | 5.8 | 93 |
| 10 | Electron Accumulation Induces Efficiency Bottleneck for Hydrogen Production in Carbon Nitride Photocatalysts. Journal of the American Chemical Society, 2019, 141, 11219-11229. | 6.6 | 177 |
| 11 | Heteroepitaxy of GaP on silicon for efficient and cost-effective photoelectrochemical water splitting. Journal of Materials Chemistry A, 2019, 7, 8550-8558. | 5.2 | 19 |
| 12 | Low-Temperature Nb-Doped SnO ₂ Electron-Selective Contact Yields over 20% Efficiency in Planar Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 773-778. | 8.8 | 157 |
| 13 | Analysis of Optical Losses in a Photoelectrochemical Cell: A Tool for Precise Absorptance Estimation. Advanced Functional Materials, 2018, 28, 1702768. | 7.8 | 18 |
| 14 | A bright outlook on organic photoelectrochemical cells for water splitting. Journal of Materials Chemistry A, 2018, 6, 21809-21826. | 5.2 | 53 |
| 15 | Rational design of a neutral pH functional and stable organic photocathode. Chemical Communications, 2018, 54, 5732-5735. | 2.2 | 24 |
| 16 | (Invited) The Benefits of Nanoscale Metal Oxide Films to Solar Fuels Research. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |
| 17 | The effect of illumination on the formation of metal halide perovskite films. Nature, 2017, 545, 208-212. | 13.7 | 242 |
| 18 | A copper nickel mixed oxide hole selective layer for Au-free transparent cuprous oxide photocathodes. Energy and Environmental Science, 2017, 10, 912-918. | 15.6 | 90 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Ultrathin Buffer Layers of SnO ₂ by Atomic Layer Deposition: Perfect Blocking Function and Thermal Stability. Journal of Physical Chemistry C, 2017, 121, 342-350. | 1.5 | 118 |
| 20 | Stabilizing organic photocathodes by low-temperature atomic layer deposition of TiO ₂ . Sustainable Energy and Fuels, 2017, 1, 1915-1920. | 2.5 | 43 |
| 21 | Solar conversion of CO2 to CO using Earth-abundant electrocatalysts prepared by atomic layer modification of CuO. Nature Energy, 2017, 2, . | 19.8 | 436 |
| 22 | Highly efficient and stable planar perovskite solar cells by solution-processed tin oxide. Energy and Environmental Science, 2016, 9, 3128-3134. | 15.6 | 720 |
| 23 | Highly Efficient and Stable Perovskite Solar Cells based on a Lowâ€Cost Carbon Cloth. Advanced Energy Materials, 2016, 6, 1601116. | 10.2 | 107 |
| 24 | Cu ₂ O Nanowire Photocathodes for Efficient and Durable Solar Water Splitting. Nano Letters, 2016, 16, 1848-1857. | 4.5 | 542 |
| 25 | Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. Energy and Environmental Science, 2016, 9, 81-88. | 15.6 | 536 |
| 26 | Efficient photosynthesis of carbon monoxide from CO2 using perovskite photovoltaics. Nature Communications, 2015, 6, 7326. | 5.8 | 295 |
| 27 | Solution Transformation of Cu ₂ O into CuInS ₂ for Solar Water Splitting. Nano Letters, 2015, 15, 1395-1402. | 4.5 | 108 |
| 28 | Low-Temperature Atomic Layer Deposition of Crystalline and Photoactive Ultrathin Hematite Films for Solar Water Splitting. ACS Nano, 2015, 9, 11775-11783. | 7.3 | 70 |
| 29 | Highly efficient planar perovskite solar cells through band alignment engineering. Energy and Environmental Science, 2015, 8, 2928-2934. | 15.6 | 1,097 |
| 30 | On the stability enhancement of cuprous oxide water splitting photocathodes by low temperature steam annealing. Energy and Environmental Science, 2014, 7, 4044-4052. | 15.6 | 121 |
| 31 | Understanding the Role of Underlayers and Overlayers in Thin Film Hematite Photoanodes. Advanced Functional Materials, 2014, 24, 7681-7688. | 7.8 | 289 |