Ludmilla Steier

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4,525 29 23 31 h-index g-index citations papers 22.6 31 5,231 5.47 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
29	Highly efficient planar perovskite solar cells through band alignment engineering. <i>Energy and Environmental Science</i> , 2015 , 8, 2928-2934	35.4	949
28	Highly efficient and stable planar perovskite solar cells by solution-processed tin oxide. <i>Energy and Environmental Science</i> , 2016 , 9, 3128-3134	35.4	603
27	Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. Energy and Environmental Science, 2016 , 9, 81-88	35.4	469
26	Cu2O Nanowire Photocathodes for Efficient and Durable Solar Water Splitting. <i>Nano Letters</i> , 2016 , 16, 1848-57	11.5	439
25	Solar conversion of CO2 to CO using Earth-abundant electrocatalysts prepared by atomic layer modification of CuO. <i>Nature Energy</i> , 2017 , 2,	62.3	334
24	Understanding the Role of Underlayers and Overlayers in Thin Film Hematite Photoanodes. <i>Advanced Functional Materials</i> , 2014 , 24, 7681-7688	15.6	258
23	Efficient photosynthesis of carbon monoxide from CO2 using perovskite photovoltaics. <i>Nature Communications</i> , 2015 , 6, 7326	17.4	245
22	The effect of illumination on the formation of metal halide perovskite films. <i>Nature</i> , 2017 , 545, 208-212	2 50.4	197
21	Low-Temperature Nb-Doped SnO2 Electron-Selective Contact Yields over 20% Efficiency in Planar Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 773-778	20.1	119
20	On the stability enhancement of cuprous oxide water splitting photocathodes by low temperature steam annealing. <i>Energy and Environmental Science</i> , 2014 , 7, 4044-4052	35.4	106
19	Solution transformation of Cu D into CuInSl F or solar water splitting. <i>Nano Letters</i> , 2015 , 15, 1395-402	11.5	102
18	Electron Accumulation Induces Efficiency Bottleneck for Hydrogen Production in Carbon Nitride Photocatalysts. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11219-11229	16.4	100
17	Highly Efficient and Stable Perovskite Solar Cells based on a Low-Cost Carbon Cloth. <i>Advanced Energy Materials</i> , 2016 , 6, 1601116	21.8	91
16	Ultrathin Buffer Layers of SnO2 by Atomic Layer Deposition: Perfect Blocking Function and Thermal Stability. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 342-350	3.8	84
15	Low-Temperature Atomic Layer Deposition of Crystalline and Photoactive Ultrathin Hematite Films for Solar Water Splitting. <i>ACS Nano</i> , 2015 , 9, 11775-83	16.7	59
14	A copper nickel mixed oxide hole selective layer for Au-free transparent cuprous oxide photocathodes. <i>Energy and Environmental Science</i> , 2017 , 10, 912-918	35.4	57
13	In situ observation of picosecond polaron self-localisation in FeO photoelectrochemical cells. <i>Nature Communications</i> , 2019 , 10, 3962	17.4	52

LIST OF PUBLICATIONS

12	Progress and Perspectives in Photo- and Electrochemical-Oxidation of Biomass for Sustainable Chemicals and Hydrogen Production. <i>Advanced Energy Materials</i> ,2101180	21.8	40	
11	The kinetics of metal oxide photoanodes from charge generation to catalysis. <i>Nature Reviews Materials</i> ,	73.3	36	
10	A bright outlook on organic photoelectrochemical cells for water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21809-21826	13	35	
9	Stabilizing organic photocathodes by low-temperature atomic layer deposition of TiO2. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1915-1920	5.8	33	
8	Pt single-atoms supported on nitrogen-doped carbon dots for highly efficient photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14690-14696	13	25	
7	Linking in situ charge accumulation to electronic structure in doped SrTiO reveals design principles for hydrogen-evolving photocatalysts. <i>Nature Materials</i> , 2021 , 20, 511-517	27	24	
6	Rational design of a neutral pH functional and stable organic photocathode. <i>Chemical Communications</i> , 2018 , 54, 5732-5735	5.8	22	
5	Impact of the Synthesis Route on the Water Oxidation Kinetics of Hematite Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7285-7290	6.4	17	
4	Analysis of Optical Losses in a Photoelectrochemical Cell: A Tool for Precise Absorptance Estimation. <i>Advanced Functional Materials</i> , 2018 , 28, 1702768	15.6	13	
3	Heteroepitaxy of GaP on silicon for efficient and cost-effective photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8550-8558	13	11	
2	Insights from Transient Absorption Spectroscopy into Electron Dynamics Along the Ga-Gradient in Cu(In,Ga)Se2 Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2003446	21.8	3	
1	Impact of RbF and NaF Postdeposition Treatments on Charge Carrier Transport and Recombination in Ga-Graded Cu(In,Ga)Se2 Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2103663	15.6	2	