

# Ludmilla Steier

## List of Publications by Year in Descending Order

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**Version:** 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

#	Paper	IF	Citations
29	Insights from Transient Absorption Spectroscopy into Electron Dynamics Along the Ga-Gradient in Cu(In,Ga)Se <sub>2</sub> Solar Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003446	21.8	3
28	Linking in situ charge accumulation to electronic structure in doped SrTiO reveals design principles for hydrogen-evolving photocatalysts. <i>Nature Materials</i> , <b>2021</b> , 20, 511-517	27	24
27	Impact of RbF and NaF Postdeposition Treatments on Charge Carrier Transport and Recombination in Ga-Graded Cu(In,Ga)Se <sub>2</sub> Solar Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103663	15.6	2
26	Pt single-atoms supported on nitrogen-doped carbon dots for highly efficient photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 14690-14696	13	25
25	Impact of the Synthesis Route on the Water Oxidation Kinetics of Hematite Photoanodes. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 7285-7290	6.4	17
24	In situ observation of picosecond polaron self-localisation in FeO photoelectrochemical cells. <i>Nature Communications</i> , <b>2019</b> , 10, 3962	17.4	52
23	Electron Accumulation Induces Efficiency Bottleneck for Hydrogen Production in Carbon Nitride Photocatalysts. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11219-11229	16.4	100
22	Heteroepitaxy of GaP on silicon for efficient and cost-effective photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8550-8558	13	11
21	Low-Temperature Nb-Doped SnO <sub>2</sub> Electron-Selective Contact Yields over 20% Efficiency in Planar Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 773-778	20.1	119
20	Analysis of Optical Losses in a Photoelectrochemical Cell: A Tool for Precise Absorptance Estimation. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1702768	15.6	13
19	A bright outlook on organic photoelectrochemical cells for water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21809-21826	13	35
18	Rational design of a neutral pH functional and stable organic photocathode. <i>Chemical Communications</i> , <b>2018</b> , 54, 5732-5735	5.8	22
17	The effect of illumination on the formation of metal halide perovskite films. <i>Nature</i> , <b>2017</b> , 545, 208-212	50.4	197
16	A copper nickel mixed oxide hole selective layer for Au-free transparent cuprous oxide photocathodes. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 912-918	35.4	57
15	Ultrathin Buffer Layers of SnO <sub>2</sub> by Atomic Layer Deposition: Perfect Blocking Function and Thermal Stability. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 342-350	3.8	84
14	Stabilizing organic photocathodes by low-temperature atomic layer deposition of TiO <sub>2</sub> . <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 1915-1920	5.8	33
13	Solar conversion of CO <sub>2</sub> to CO using Earth-abundant electrocatalysts prepared by atomic layer modification of CuO. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	334

12	Highly efficient and stable planar perovskite solar cells by solution-processed tin oxide. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3128-3134	35.4	603
11	Highly Efficient and Stable Perovskite Solar Cells based on a Low-Cost Carbon Cloth. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1601116	21.8	91
10	Cu <sub>2</sub> O Nanowire Photocathodes for Efficient and Durable Solar Water Splitting. <i>Nano Letters</i> , <b>2016</b> , 16, 1848-57	11.5	439
9	Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 81-88	35.4	469
8	Low-Temperature Atomic Layer Deposition of Crystalline and Photoactive Ultrathin Hematite Films for Solar Water Splitting. <i>ACS Nano</i> , <b>2015</b> , 9, 11775-83	16.7	59
7	Highly efficient planar perovskite solar cells through band alignment engineering. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2928-2934	35.4	949
6	Efficient photosynthesis of carbon monoxide from CO <sub>2</sub> using perovskite photovoltaics. <i>Nature Communications</i> , <b>2015</b> , 6, 7326	17.4	245
5	Solution transformation of Cu <sub>2</sub> O into CuInS <sub>2</sub> for solar water splitting. <i>Nano Letters</i> , <b>2015</b> , 15, 1395-402	11.5	102
4	Understanding the Role of Underlayers and Overlayers in Thin Film Hematite Photoanodes. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 7681-7688	15.6	258
3	On the stability enhancement of cuprous oxide water splitting photocathodes by low temperature steam annealing. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 4044-4052	35.4	106
2	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
1	The kinetics of metal oxide photoanodes from charge generation to catalysis. <i>Nature Reviews Materials</i> ,	73.3	36