

Sebastian Z Oener

List of Publications by Citations

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22
papers

760
citations

17
h-index

26
g-index

26
ext. papers

1,092
ext. citations

16.4
avg, IF

4.88
L-index

#	Paper	IF	Citations
22	Accelerating water dissociation in bipolar membranes and for electrocatalysis. <i>Science</i> , 2020 , 369, 1099-1103	33.3	111
21	Earth-Abundant Oxygen Electrocatalysts for Alkaline Anion-Exchange-Membrane Water Electrolysis: Effects of Catalyst Conductivity and Comparison with Performance in Three-Electrode Cells. <i>ACS Catalysis</i> , 2019 , 9, 7-15	13.1	89
20	Nanoscale semiconductor/catalyst interfaces in photoelectrochemistry. <i>Nature Materials</i> , 2020 , 19, 69-76	7	53
19	Ionic Processes in Water Electrolysis: The Role of Ion-Selective Membranes. <i>ACS Energy Letters</i> , 2017 , 2, 2625-2634	20.1	49
18	Infrared birefringence imaging of residual stress and bulk defects in multicrystalline silicon. <i>Journal of Applied Physics</i> , 2010 , 108, 063528	2.5	47
17	Catalyst Deposition on Photoanodes: The Roles of Intrinsic Catalytic Activity, Catalyst Electrical Conductivity, and Semiconductor Morphology. <i>ACS Energy Letters</i> , 2018 , 3, 961-969	20.1	38
16	Controlling crystallization to imprint nanophotonic structures into halide perovskites using soft lithography. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8301-8307	7.1	37
15	Quantifying losses and thermodynamic limits in nanophotonic solar cells. <i>Nature Nanotechnology</i> , 2016 , 11, 1071-1075	28.7	36
14	Selectivity Control of Cu Nanocrystals in a Gas-Fed Flow Cell through CO Pulsed Electroreduction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7578-7587	16.4	35
13	Perovskite Nanowire Extrusion. <i>Nano Letters</i> , 2017 , 17, 6557-6563	11.5	33
12	Low-Cost Approaches to III-V Semiconductor Growth for Photovoltaic Applications. <i>ACS Energy Letters</i> , 2017 , 2, 2270-2282	20.1	33
11	Membrane Electrolyzers for Impure-Water Splitting. <i>Joule</i> , 2020 , 4, 2549-2561	27.8	27
10	Potentially Confusing: Potentials in Electrochemistry. <i>ACS Energy Letters</i> , 2021 , 6, 261-266	20.1	25
9	Charge carrier-selective contacts for nanowire solar cells. <i>Nature Communications</i> , 2018 , 9, 3248	17.4	22
8	Metal-Insulator-Semiconductor Nanowire Network Solar Cells. <i>Nano Letters</i> , 2016 , 16, 3689-95	11.5	22
7	Thin Cation-Exchange Layers Enable High-Current-Density Bipolar Membrane Electrolyzers via Improved Water Transport. <i>ACS Energy Letters</i> , 2021 , 6, 1-8	20.1	21
6	Integrated Reference Electrodes in Anion-Exchange-Membrane Electrolyzers: Impact of Stainless-Steel Gas-Diffusion Layers and Internal Mechanical Pressure. <i>ACS Energy Letters</i> , 2021 , 6, 305-312	20.1	19

5	Au-Cu ₂ O core-shell nanowire photovoltaics. <i>Applied Physics Letters</i> , 2015 , 106, 023501	3.4	16
4	Performance and Durability of Pure-Water-Fed Anion Exchange Membrane Electrolyzers Using Baseline Materials and Operation. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	14
3	Monocrystalline Nanopatterns Made by Nanocube Assembly and Epitaxy. <i>Advanced Materials</i> , 2017 , 29, 1701064	24	12
2	Transient photocurrents on catalyst-modified n-Si photoelectrodes: insight from dual-working electrode photoelectrochemistry. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1995-2005	5.8	12
1	Surface recombination velocity of methylammonium lead bromide nanowires in anodic aluminium oxide templates. <i>Molecular Systems Design and Engineering</i> , 2018 , 3, 723-728	4.6	5