

Jason A RÃ¶hr

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,925
citations

361388

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552766

26
g-index

28
all docs

28
docs citations

28
times ranked

4055
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying optimal photovoltaic technologies for underwater applications. <i>IScience</i> , 2022, 25, 104531.	4.1	5
2	Narrowing the Phase Distribution of Quasi-2D Perovskites for Stable Deep-Blue Electroluminescence. <i>Advanced Science</i> , 2022, 9, .	11.2	22
3	CO ₂ doping of organic interlayers for perovskite solar cells. <i>Nature</i> , 2021, 594, 51-56.	27.8	120
4	Mutually-dependent kinetics and energetics of photocatalyst/co-catalyst/two-redox liquid junctions. <i>Energy and Environmental Science</i> , 2020, 13, 162-173.	30.8	29
5	Perovskite Solar Cells with Enhanced Fill Factors Using Polymer-Capped Solvent Annealing. <i>ACS Applied Energy Materials</i> , 2020, 3, 7231-7238.	5.1	19
6	Analytical description of mixed ohmic and space-charge-limited conduction in single-carrier devices. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	29
7	Efficiency Limits of Underwater Solar Cells. <i>Joule</i> , 2020, 4, 840-849.	24.0	47
8	Flexible 3D Porous MoS ₂ /CNTs Architectures with <i>ZT</i> of 0.17 at Room Temperature for Wearable Thermoelectric Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2002508.	14.9	31
9	Elucidating charge separation in particulate photocatalysts using nearly intrinsic semiconductors with small asymmetric band bending. <i>Sustainable Energy and Fuels</i> , 2019, 3, 850-864.	4.9	30
10	Direct Determination of Built-in Voltages in Asymmetric Single-Carrier Devices. <i>Physical Review Applied</i> , 2019, 11, .	3.8	19
11	Analysis of the Voltage Losses in CZTSSe Solar Cells of Varying Sn Content. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2829-2835.	4.6	38
12	The role of adsorbates in the green emission and conductivity of zinc oxide. <i>Communications Chemistry</i> , 2019, 2, .	4.5	24
13	Stable Water Oxidation in Acid Using Manganese-Modified TiO ₂ Protective Coatings. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18805-18815.	8.0	24
14	Charge Transport in Spiro-OMeTAD Investigated through Space-Charge-Limited Current Measurements. <i>Physical Review Applied</i> , 2018, 9, .	3.8	42
15	Exploring the validity and limitations of the Mott-Gurney law for charge-carrier mobility determination of semiconducting thin-films. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 105901.	1.8	102
16	An Alkylated Indacenodithieno[3,2- <i>b</i>]thiophene-Based Nonfullerene Acceptor with High Crystallinity Exhibiting Single Junction Solar Cell Efficiencies Greater than 13% with Low Voltage Losses. <i>Advanced Materials</i> , 2018, 30, 1705209.	21.0	474
17	The role of fullerenes in the environmental stability of polymer:fullerene solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 417-428.	30.8	117
18	Energy-Conversion Properties of Si/GaAs Mesowires Containing fewer Threading Dislocations. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Tunable nano-interfaces between MnO _x and layered double hydroxides boost oxygen evolving electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21918-21926.	10.3	29
20	Ultrafast proton-assisted tunneling through ZrO ₂ in dye-sensitized SnO ₂ -core/ZrO ₂ -shell films. <i>Chemical Communications</i> , 2018, 54, 7971-7974.	4.1	5
21	On the correct interpretation of the low voltage regime in intrinsic single-carrier devices. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 205901.	1.8	33
22	Reducing the efficiency–stability–cost gap of organic photovoltaics with highly efficient and stable small molecule acceptor ternary solar cells. <i>Nature Materials</i> , 2017, 16, 363-369.	27.5	921
23	Organic photovoltaic greenhouses: a unique application for semi-transparent PV?. <i>Energy and Environmental Science</i> , 2015, 8, 1317-1328.	30.8	222
24	A Rhodanine Flanked Nonfullerene Acceptor for Solution-Processed Organic Photovoltaics. <i>Journal of the American Chemical Society</i> , 2015, 137, 898-904.	13.7	446
25	Doping incorporation paths in catalyst-free Be-doped GaAs nanowires. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	58
26	A Compact Electron Transport Layer Using a Heated Tin–Oxide Colloidal Solution for Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , 0, , 2100794.	5.8	2