

Steven T Christensen

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,264
citations

687363

13
h-index

752698

20
g-index

24
all docs

24
docs citations

24
times ranked

2637
citing authors

#	ARTICLE	IF	CITATIONS
1	Carrier lifetimes of $\sim 1 \mu\text{s}$ in Sn-Pb perovskites enable efficient all-perovskite tandem solar cells. <i>Science</i> , 2019, 364, 475-479.	12.6	781
2	Control of Doping in Cu_2SnS_3 through Defects and Alloying. <i>Chemistry of Materials</i> , 2014, 26, 4951-4959.	6.7	136
3	Utilizing Site Disorder in the Development of New Energy-Relevant Semiconductors. <i>ACS Energy Letters</i> , 2020, 5, 2027-2041.	17.4	46
4	Combinatorial Synthesis of Magnesium Tin Nitride Semiconductors. <i>Journal of the American Chemical Society</i> , 2020, 142, 8421-8430.	13.7	42
5	Dynamics of singlet fission and electron injection in self-assembled acene monolayers on titanium dioxide. <i>Chemical Science</i> , 2018, 9, 3004-3013.	7.4	41
6	Pt-Ru Alloyed Fuel Cell Catalysts Sputtered from a Single Alloyed Target. <i>ACS Catalysis</i> , 2011, 1, 1307-1315.	11.2	32
7	Understanding and control of bipolar self-doping in copper nitride. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	30
8	Synthesis of a mixed-valent tin nitride and considerations of its possible crystal structures. <i>Journal of Chemical Physics</i> , 2016, 144, 144201.	3.0	29
9	Electronic structure study of the CdS buffer layer in CIGS solar cells by X-ray absorption spectroscopy: Experiment and theory. <i>Solar Energy Materials and Solar Cells</i> , 2016, 149, 275-283.	6.2	17
10	Spectroscopic investigation of nitrogen-functionalized carbon materials. <i>Surface and Interface Analysis</i> , 2016, 48, 283-292.	1.8	16
11	Photobleaching dynamics in small molecule <i>vs.</i> polymer organic photovoltaic blends with 1,7-bis-trifluoromethylfullerene. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4623-4628.	10.3	16
12	Silicon Photoelectrode Thermodynamics and Hydrogen Evolution Kinetics Measured by Intensity-Modulated High-Frequency Resistivity Impedance Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5253-5258.	4.6	16
13	Al_2O_3 Atomic Layer Deposition on Nanostructured $\text{Mg}(\text{BH}_4)_2$ for H_2 Storage. <i>ACS Applied Energy Materials</i> , 2021, 4, 1150-1162.	5.1	13
14	In situ small-angle x-ray scattering analysis of improved catalyst-support interactions through nitrogen modification. <i>MRS Communications</i> , 2012, 2, 85-89.	1.8	10
15	Effect of Window-Layer Materials on p-n Junction Location in $\text{Cu}(\text{In,Ga})\text{Se}_2$ Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2019, 9, 308-312.	2.5	9
16	Energetic effects of hybrid organic/inorganic interfacial architecture on nanoporous black silicon photoelectrodes. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1660-1667.	4.9	8
17	Conduction band position tuning and Ga-doping in $(\text{Cd,Zn})\text{S}$ alloy thin films. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1342-1348.	5.9	6
18	Short-Range Order Tunes Optical Properties in Long-Range Disordered ZnSnN_2 ZnO Alloy. <i>Chemistry of Materials</i> , 2022, 34, 3910-3919.	6.7	6

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19	Reactive Vapor-Phase Additives toward Destabilizing $\hat{I}^3\text{-Mg}(\text{BH}_{4})_{2}$ for Improved Hydrogen Release. ACS Applied Energy Materials, 2022, 5, 1690-1700.	5.1	5
20	A core-level spectroscopic investigation of the preparation and electrochemical cycling of nitrogen-modified carbon as a model catalyst support. Journal of Materials Chemistry A, 2016, 4, 443-450.	10.3	3
21	Novel transparent conducting barriers for photovoltaics. , 2010, , .		2
22	Optical properties of Zn(O,S) thin films deposited by RF sputtering, atomic layer deposition, and chemical bath deposition. , 2012, , .		0
23	Soft X-ray absorption spectroscopy investigation of the surface chemistry and treatments of copper indium gallium diselenide (CIGS). Solar Energy Materials and Solar Cells, 2017, 160, 390-397.	6.2	0
24	Controlled Pt Coverage for Extended Thin Film Catalyst ORR Studies via Templated Gas Phase Synthesis. ECS Meeting Abstracts, 2012, , .	0.0	0