

Corey R Grice

List of Publications by Year in descending order

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101543

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75
all docs

75
docs citations

75
times ranked

7704
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Cu Precursor on the Performance of Efficient CdTe Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 38432-38440.	8.0	15
2	Back-Surface Passivation of CdTe Solar Cells Using Solution-Processed Oxidized Aluminum. ACS Applied Materials & Interfaces, 2020, 12, 51337-51343.	8.0	15
3	Solution-Processed High-Quality Cesium Lead Bromine Perovskite Photodetectors with High Detectivity for Application in Visible Light Communication. Advanced Optical Materials, 2020, 8, 1901735.	7.3	38
4	Maximize CdTe solar cell performance through copper activation engineering. Nano Energy, 2020, 73, 104835.	16.0	35
5	Influences of buffer material and fabrication atmosphere on the electrical properties of CdTe solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 1115-1123.	8.1	24
6	Ga-doped ZnO nanorod scaffold for high-performance, hole-transport-layer-free, self-powered CH ₃ NH ₃ PbI ₃ perovskite photodetectors. Solar Energy Materials and Solar Cells, 2019, 193, 246-252.	6.2	46
7	Low temperature synthesis of nanocrystalline V ₂ O ₅ using the non-hydrolytic sol-gel method. Journal of Sol-Gel Science and Technology, 2019, 89, 663-671.	2.4	5
8	n-i-p Nanocrystalline Hydrogenated Silicon Solar Cells with RF-Magnetron Sputtered Absorbers. Materials, 2019, 12, 1699.	2.9	6
9	Parametric Optical Property Database for CdSe _{1-x} S _x Alloys. Electronic Materials Letters, 2019, 15, 500-504.	2.2	6
10	Solution-processed copper (I) thiocyanate (CuSCN) for highly efficient CdSe/CdTe thin-film solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 665-672.	8.1	37
11	Eliminating S-Kink To Maximize the Performance of MgZnO/CdTe Solar Cells. ACS Applied Energy Materials, 2019, 2, 2896-2903.	5.1	60
12	A new metal-organic open framework enabling facile synthesis of carbon encapsulated transition metal phosphide/sulfide nanoparticle electrocatalysts. Journal of Materials Chemistry A, 2019, 7, 7168-7178.	10.3	50
13	Defect Analysis in CSS and Sputtered CdSe _x Te _{1-x} Thin Films. , 2019, , .		1
14	ZnTe Back Buffer Layer to Enhance the Efficiency of CdS/CdTe Solar Cells. , 2019, , .		5
15	Get rid of S-kink in MZO/CdTe Solar Cells by Performing CdCl ₂ Annealing without Oxygen. , 2019, , .		2
16	Effects of Fabrication Atmosphere on Bulk and Back Interface Defects of CdTe Solar Cells with CdS and MgZnO Buffers. , 2019, , .		1
17	The Effects of Hydrogen Iodide Back Surface Treatment on CdTe Solar Cells. Solar Rrl, 2019, 3, 1800304.	5.8	29
18	Self-Powered All-Inorganic Perovskite Microcrystal Photodetectors with High Detectivity. Journal of Physical Chemistry Letters, 2018, 9, 2043-2048.	4.6	123

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19	Barium Bismuth Niobate Double Perovskite/Tungsten Oxide Nanosheet Photoanode for High-Performance Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1701655.	19.5	62
20	A New Hole Transport Material for Efficient Perovskite Solar Cells With Reduced Device Cost. <i>Solar Rrl</i> , 2018, 2, 1700175.	5.8	31
21	Double Coating for the Enhancement of the Performance in a MA _{0.7} FA _{0.3} PbBr ₃ Photodetector. <i>ACS Photonics</i> , 2018, 5, 2100-2105.	6.6	9
22	Stable and efficient CdS/Sb ₂ Se ₃ solar cells prepared by scalable close space sublimation. <i>Nano Energy</i> , 2018, 49, 346-353.	16.0	130
23	A Versatile Optical Model Applied to CdTe and CdSe _{1-y} Te _y Alloys: Sensitivity to Film Composition and Relative Defect Density. , 2018, , .		1
24	Efficient two-terminal all-perovskite tandem solar cells enabled by high-quality low-bandgap absorber layers. <i>Nature Energy</i> , 2018, 3, 1093-1100.	39.5	422
25	Self-powered CsPbBr ₃ nanowire photodetector with a vertical structure. <i>Nano Energy</i> , 2018, 53, 880-886.	16.0	104
26	Electrical and optical characterization of CdTe solar cells with CdS and CdSe buffers—A comparative study. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, 052904.	1.2	17
27	Metal-Organic Framework-Derived CoWP@C Composite Nanowire Electrocatalyst for Efficient Water Splitting. <i>ACS Energy Letters</i> , 2018, 3, 1434-1442.	17.4	141
28	Optical and electrical properties of H ₂ plasma-treated ZnO films prepared by atomic layer deposition using supercycles. <i>Materials Science in Semiconductor Processing</i> , 2018, 84, 91-100.	4.0	12
29	Pressure-Assisted Annealing Strategy for High-Performance Self-Powered All-Inorganic Perovskite Microcrystal Photodetectors. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4714-4719.	4.6	50
30	Single-Phase, Antibacterial Trimagnesium Phosphate Hydrate Coatings on Polyetheretherketone (PEEK) Implants by Rapid Microwave Irradiation Technique. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2767-2783.	5.2	44
31	Synergistic effects of thiocyanate additive and cesium cations on improving the performance and initial illumination stability of efficient perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2435-2441.	4.9	27
32	Binary hole transport materials blending to linearly tune HOMO level for high efficiency and stable perovskite solar cells. <i>Nano Energy</i> , 2018, 51, 680-687.	16.0	59
33	Low Temperature Photoluminescence Spectroscopy of Defect and Interband Transitions in Cd _{Sex} Te _{1-x} Thin Films. <i>MRS Advances</i> , 2018, 3, 3293-3299.	0.9	8
34	Probing the origins of photodegradation in organic-inorganic metal halide perovskites with time-resolved mass spectrometry. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2460-2467.	4.9	84
35	Spectroscopic ellipsometry determination of optical and electrical properties of aluminum doped zinc oxide. <i>Applied Surface Science</i> , 2017, 421, 852-858.	6.1	32
36	Low-bandgap mixed tin-lead iodide perovskite absorbers with long carrier lifetimes for all-perovskite tandem solar cells. <i>Nature Energy</i> , 2017, 2, .	39.5	634

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37	Understanding and Eliminating Hysteresis for Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700414.	19.5	190
38	Synergistic Effects of Lead Thiocyanate Additive and Solvent Annealing on the Performance of Wide-Bandgap Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 1177-1182.	17.4	190
39	Morphological and optical properties of low temperature processed SnO ₂ :F. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700102.	1.5	9
40	Compositional and morphological engineering of mixed cation perovskite films for highly efficient planar and flexible solar cells with reduced hysteresis. <i>Nano Energy</i> , 2017, 35, 223-232.	16.0	162
41	A layered Na _{1-x} Ni _y Fe _{1-y} O ₂ double oxide oxygen evolution reaction electrocatalyst for highly efficient water-splitting. <i>Energy and Environmental Science</i> , 2017, 10, 121-128.	30.8	201
42	Oxygenated CdS Buffer Layers Enabling High Open-Circuit Voltages in Earth-Abundant Cu ₂ BaSnS ₄ Thin-Film Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601803.	19.5	102
43	Bandgap Engineering of Barium Bismuth Niobate Double Perovskite for Photoelectrochemical Water Oxidation. <i>Advanced Energy Materials</i> , 2017, 7, 1602260.	19.5	67
44	Cu-based quaternary chalcogenide Cu ₂ BaSnS ₄ thin films acting as hole transport layers in inverted perovskite CH ₃ NH ₃ PbI ₃ solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2920-2928.	10.3	57
45	Cost-effective hole transporting material for stable and efficient perovskite solar cells with fill factors up to 82%. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23319-23327.	10.3	40
46	Water Vapor Treatment of Low-Temperature Deposited SnO ₂ Electron Selective Layers for Efficient Flexible Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 2118-2124.	17.4	161
47	Tracking the maximum power point of hysteretic perovskite solar cells using a predictive algorithm. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10152-10157.	5.5	18
48	One-step facile synthesis of a simple carbazole-cored hole transport material for high-performance perovskite solar cells. <i>Nano Energy</i> , 2017, 40, 163-169.	16.0	89
49	Optical Properties of and Alloys and Their Application for CdTe Photovoltaics. , 2017, , .		6
50	Characterizing recombination in CdTe-based solar cells by the temperature and excitation dependence of open-circuit voltage and photoluminescence. , 2017, , .		0
51	Low-temperature plasma-enhanced atomic layer deposition of tin oxide electron selective layers for highly efficient planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12080-12087.	10.3	210
52	Characterization of CdS/CdSe window layers in CdTe thin film solar cells. , 2016, , .		4
53	RF-sputtered Cd ₂ /SnO ₄ for flexible glass CdTe solar cells. , 2016, , .		3
54	Effects of oxygen partial pressure, deposition temperature, and annealing on the optical response of CdS:O thin films as studied by spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	9

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55	Lead-Free Inverted Planar Formamidinium Tin Triiodide Perovskite Solar Cells Achieving Power Conversion Efficiencies up to 6.22%. <i>Advanced Materials</i> , 2016, 28, 9333-9340.	21.0	636
56	Fabrication of optically smooth Sn thin films. <i>Thin Solid Films</i> , 2016, 616, 311-315.	1.8	8
57	Cooperative tin oxide fullerene electron selective layers for high-performance planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14276-14283.	10.3	204
58	Thermally evaporated methylammonium tin triiodide thin films for lead-free perovskite solar cell fabrication. <i>RSC Advances</i> , 2016, 6, 90248-90254.	3.6	114
59	Fabrication of Efficient Low-Bandgap Perovskite Solar Cells by Combining Formamidinium Tin Iodide with Methylammonium Lead Iodide. <i>Journal of the American Chemical Society</i> , 2016, 138, 12360-12363.	13.7	362
60	Improving the Performance of Formamidinium and Cesium Lead Triiodide Perovskite Solar Cells using Lead Thiocyanate Additives. <i>ChemSusChem</i> , 2016, 9, 3288-3297.	6.8	178
61	Annealing-free efficient vacuum-deposited planar perovskite solar cells with evaporated fullerenes as electron-selective layers. <i>Nano Energy</i> , 2016, 19, 88-97.	16.0	125
62	Evidence of electric-field-accelerated growth of tin whiskers. <i>MRS Communications</i> , 2015, 5, 619-622.	1.8	13
63	Evolution of the optical response of sputtered CdS:O as a function of temperature. , 2015, , .		0
64	High temperature CSS processed CdTe solar cells on commercial SnO ₂ :F/SnO ₂ coated soda-lime glass substrates. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 4708-4715.	2.2	8
65	Effects of annealing temperature of tin oxide electron selective layers on the performance of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24163-24168.	10.3	186
66	Efficient fully-vacuum-processed perovskite solar cells using copper phthalocyanine as hole selective layers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23888-23894.	10.3	161
67	Efficient planar perovskite solar cells using room-temperature vacuum-processed C ₆₀ electron selective layers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17971-17976.	10.3	100
68	CdTe solar cells using combined ZnS/CdS window layers. , 2014, , .		3
69	Effect of deposition temperature on reactively sputtered CdS:O. , 2014, , .		3
70	The effects of high temperature processing on the structural and optical properties of oxygenated CdS window layers in CdTe solar cells. <i>Journal of Applied Physics</i> , 2014, 116, 044506.	2.5	26
71	Thin film solar cells based on the heterojunction of colloidal PbS quantum dots with CdS. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 476-482.	6.2	64
72	Operando X-ray absorption and infrared fuel cell spectroscopy. <i>Electrochimica Acta</i> , 2011, 56, 8827-8832.	5.2	22

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73	Effect of Water Density on Methanol Oxidation Kinetics in Supercritical Water. Journal of Physical Chemistry A, 2006, 110, 3627-3632.	2.5	27