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List of Publications by Year in descending order

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69
papers

1,333
citations

279487

23
h-index

395343

33
g-index

69
all docs

69
docs citations

69
times ranked

1215
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of n-type amorphous silicon films as an electron transport layer in the perovskite solar cells. Japanese Journal of Applied Physics, 2022, 61, SB1012.	0.8	0
2	Growth and reaction mechanism of solution-processed Cu ₂ ZnSnSe ₄ thin films for realising efficient photovoltaic applications. Journal of Alloys and Compounds, 2022, 900, 163457.	2.8	6
3	Reproducible perovskite solar cells using a simple solvent-mediated sol-gel synthesized NiO hole transport layer. Applied Physics Express, 2022, 15, 015504.	1.1	6
4	Electro-spray deposited TiO ₂ bilayer films and their recyclable photocatalytic self-cleaning strategy. Scientific Reports, 2022, 12, 1582.	1.6	3
5	Investigation of Degradation Mechanism of Y ₆ -Based Inverted Organic Solar Cells and Their Utilization in Durable Near-Infrared Photodetection. Macromolecular Rapid Communications, 2022, 43, e2100718.	2.0	7
6	Nanophotonic-structured front contact for high-performance perovskite solar cells. Science China Materials, 2022, 65, 1727-1740.	3.5	5
7	Perovskite/perovskite planar tandem solar cells: A comprehensive guideline for reaching energy conversion efficiency beyond 30%. Nano Energy, 2021, 79, 105400.	8.2	69
8	Spray Pyrolyzed TiO ₂ Embedded Multi-Layer Front Contact Design for High-Efficiency Perovskite Solar Cells. Nano-Micro Letters, 2021, 13, 36.	14.4	50
9	Low-cost molecular glass hole transport material for perovskite solar cells. Japanese Journal of Applied Physics, 2021, 60, SBBF12.	0.8	2
10	Ionic Liquid-Assisted MAPbI ₃ Nanoparticle-Seeded Growth for Efficient and Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 21194-21206.	4.0	47
11	Ionic liquid infused starch-cellulose derivative based quasi-solid dye-sensitized solar cell: exploiting the rheological properties of natural polymers. Cellulose, 2021, 28, 5545.	2.4	9
12	Selective Extraction of Nonfullerene Acceptors from Bulk-Heterojunction Layer in Organic Solar Cells for Detailed Analysis of Microstructure. Materials, 2021, 14, 2107.	1.3	3
13	Defect Study and Modelling of SnX ₃ -Based Perovskite Solar Cells with SCAPS-1D. Nanomaterials, 2021, 11, 1218.	1.9	81
14	The benefits of ionic liquids for the fabrication of efficient and stable perovskite photovoltaics. Chemical Engineering Journal, 2021, 411, 128461.	6.6	70
15	Study on Properties of Low-Temperature-Prepared Zinc Oxide-Based Inverted Organic Solar Cells and Improvement of their Photodurability. ACS Applied Energy Materials, 2021, 4, 6385-6390.	2.5	10
16	Impact of Ar Flow Rates on Micro-Structural Properties of WS ₂ Thin Film by RF Magnetron Sputtering. Nanomaterials, 2021, 11, 1635.	1.9	9
17	Effects of oxygen concentration variation on the structural and optical properties of reactive sputtered WO _x thin film. Solar Energy, 2021, 222, 202-211.	2.9	26
18	Efficiency enhancement of CIGS solar cell by cubic silicon carbide as prospective buffer layer. Solar Energy, 2021, 224, 271-278.	2.9	28

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19	Double-layer CsI intercalation into an MAPbI ₃ framework for efficient and stable perovskite solar cells. <i>Nano Energy</i> , 2021, 86, 106135.	8.2	33
20	Improved Nanophotonic Front Contact Design for High-Performance Perovskite Single-Junction and Perovskite/Perovskite Tandem Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100509.	3.1	23
21	Performance analysis of tungsten disulfide (WS ₂) as an alternative buffer layer for CdTe solar cell through numerical modeling. <i>Optical Materials</i> , 2021, 120, 111296.	1.7	24
22	Near field control for enhanced photovoltaic performance and photostability in perovskite solar cells. <i>Nano Energy</i> , 2021, 89, 106388.	8.2	25
23	Low-temperature treated anatase TiO ₂ nanophotonic-structured contact design for efficient triple-cation perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021, 426, 131831.	6.6	22
24	Study on photo-degradation of inverted organic solar cells caused by generation of potential barrier between PEDOT:PSS and PBDB-Ts. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3092-3096.	2.5	6
25	It is an All-Rounder! On the Development of Metal Halide Perovskite-Based Fluorescent Sensors and Radiation Detectors. <i>Advanced Optical Materials</i> , 2021, 9, 2101276.	3.6	18
26	Muntingia calabura Leaves Mediated Green Synthesis of CuO Nanorods: Exploiting Phytochemicals for Unique Morphology. <i>Materials</i> , 2021, 14, 6379.	1.3	19
27	Enhancing spectral response towards high-performance dye-sensitised solar cells by multiple dye approach: A comprehensive review. <i>Applied Materials Today</i> , 2021, 25, 101204.	2.3	11
28	Design and Modelling of Eco-Friendly CH ₃ NH ₃ SnI ₃ -Based Perovskite Solar Cells with Suitable Transport Layers. <i>Energies</i> , 2021, 14, 7200.	1.6	25
29	Paste Aging Spontaneously Tunes TiO ₂ Nanoparticles into Reproducible Electrospayed Photoelectrodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53758-53766.	4.0	3
30	Synthesis of brookite-type TiO ₂ nanoparticles by emulsion-assisted hydrothermal method using titanium glycolate complex. <i>Journal of the Ceramic Society of Japan</i> , 2021, 129, 720-724.	0.5	2
31	Local Cross-Coupling Activity of Azide-Hexa(ethylene glycol)-Terminated Self-Assembled Monolayers Investigated by Atomic Force Microscopy. <i>Langmuir</i> , 2021, 37, 14688-14696.	1.6	3
32	Effect of Selective Lateral Chromium Doping by RF Magnetron Sputtering on the Structural, and Opto-Electrical Properties of Nickel Oxide. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11546.	1.3	7
33	Substrate-driven switchable molecular orientation in bulk heterojunction films identified using infrared reflection absorption spectroscopy. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 559-564.	1.7	5
34	Electrical and Optical Properties of Nickel Oxide Films for Efficient Perovskite Solar Cells. <i>Small Methods</i> , 2020, 4, 2000454.	4.6	37
35	Low-Temperature Processed TiO _x Electron Transport Layer for Efficient Planar Perovskite Solar Cells. <i>Nanomaterials</i> , 2020, 10, 1676.	1.9	13
36	Switchable Crystal Phase and Orientation of Evaporated Zinc Phthalocyanine Films for Efficient Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21338-21345.	1.5	7

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37	Naphthalene diimide-incorporated helical thienoacene: a helical molecule with high electron mobility, good solubility, and thermally stable solid phase. <i>Chemical Communications</i> , 2020, 56, 12343-12346.	2.2	6
38	Metal Oxide Compact Electron Transport Layer Modification for Efficient and Stable Perovskite Solar Cells. <i>Materials</i> , 2020, 13, 2207.	1.3	42
39	Platinum leaf counter electrodes for dye-sensitized solar cells. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SDDC07.	0.8	3
40	A single-phase brookite TiO ₂ nanoparticle bridge enhances the stability of perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2009-2017.	2.5	25
41	Optoelectronic properties of electron beam-deposited NiOx thin films for solar cell application. <i>Results in Physics</i> , 2020, 17, 103122.	2.0	26
42	Air-stable perovskite photovoltaic cells with low temperature deposited NiOx as an efficient hole-transporting material. <i>Optical Materials Express</i> , 2020, 10, 1801.	1.6	19
43	Influence of the TiO ₂ Compact Electron Transport Layer on the Planar Perovskite Solar Cell Performance. , 2020, , .		0
44	Thermal Control of PbI ₂ Film Growth for Two-Step Planar Perovskite Solar Cells. <i>Crystal Growth and Design</i> , 2019, 19, 5320-5325.	1.4	18
45	Thin film deposition method for ZnO nanosheets using low-temperature microwave-excited atmospheric pressure plasma jet. <i>Thin Solid Films</i> , 2019, 674, 58-63.	0.8	4
46	Oblique Electrostatic Inkjet-Deposited TiO ₂ Electron Transport Layers for Efficient Planar Perovskite Solar Cells. <i>Scientific Reports</i> , 2019, 9, 19494.	1.6	29
47	Efficient Planar Perovskite Solar Cells with Entire Low-Temperature Processes via Brookite TiO ₂ Nanoparticle Electron Transport Layer. , 2019, , .		0
48	Platinum counter electrodes for dye-sensitized solar cells prepared by one-step dipping process. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 124001.	0.8	9
49	Low-Temperature-Processed Brookite-Based TiO ₂ Heterophase Junction Enhances Performance of Planar Perovskite Solar Cells. <i>Nano Letters</i> , 2019, 19, 598-604.	4.5	61
50	Influence of coating steps of perovskite on low-temperature amorphous compact TiO _x upon the morphology, crystallinity, and photovoltaic property correlation in planar perovskite solar cells. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03EJ06.	0.8	8
51	Interface engineering of compact-TiOx in planar perovskite solar cells using low-temperature processable high-mobility fullerene derivative. <i>Solar Energy Materials and Solar Cells</i> , 2018, 178, 1-7.	3.0	29
52	Highly Efficient Planar Perovskite Solar Cells Exploiting a Compact TiO ₂ /Anatase TiO ₂ /Single Crystalline Nanoparticles Electron Transport Bilayer. , 2018, , .		0
53	Molecular orientation control of semiconducting molecules using a metal layer formed by wet processing. <i>Organic Electronics</i> , 2018, 63, 47-51.	1.4	11
54	Identifying Molecular Orientation in a Bulk Heterojunction Film by Infrared Reflection Absorption Spectroscopy. <i>ACS Omega</i> , 2018, 3, 5678-5684.	1.6	12

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55	Compact TiO ₂ /Anatase TiO ₂ Single-Crystalline Nanoparticle Electron-Transport Bilayer for Efficient Planar Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 2018, 6, 12070-12078.	3.2	39
56	Planar heterojunction perovskite solar cells fabricated by wet process. , 2017, , .		0
57	Viscosity effect of ionic liquid-assisted controlled growth of CH ₃ NH ₃ PbI ₃ nanoparticle-based planar perovskite solar cells. Organic Electronics, 2017, 48, 147-153.	1.4	30
58	Annealing effects on CsPbI ₃ -based planar heterojunction perovskite solar cells formed by vacuum deposition method. Japanese Journal of Applied Physics, 2017, 56, 04CS11.	0.8	35
59	Sexithiophene-Based Photovoltaic Cells with High Light Absorption Coefficient via Crystalline Polymorph Control. Journal of Physical Chemistry C, 2017, 121, 19699-19704.	1.5	16
60	Improved Reproducibility and Intercalation Control of Efficient Planar Inorganic Perovskite Solar Cells by Simple Alternate Vacuum Deposition of PbI ₂ and CsI. ACS Omega, 2017, 2, 4464-4469.	1.6	49
61	Interfacial modification of the electron collecting layer of low-temperature solution-processed organometallic halide photovoltaic cells using an amorphous perylene diimide. Solar Energy Materials and Solar Cells, 2017, 160, 294-300.	3.0	25
62	Degradation mechanism for planar heterojunction perovskite solar cells. Japanese Journal of Applied Physics, 2016, 55, 04ES07.	0.8	10
63	Interpenetrating heterojunction photovoltaic cells based on C60 nano-crystallized thin films. Organic Electronics, 2016, 38, 107-114.	1.4	4
64	Shape-controlled CH ₃ NH ₃ PbI ₃ nanoparticles for planar heterojunction perovskite solar cells. Japanese Journal of Applied Physics, 2016, 55, 02BF05.	0.8	11
65	Planar heterojunction type perovskite solar cells based on TiO _x compact layer fabricated by chemical bath deposition. , 2016, , .		4
66	Enhanced Photovoltaic Performance of Perovskite Solar Cells via Modification of Surface Characteristics Using a Fullerene Interlayer. Chemistry Letters, 2015, 44, 1735-1737.	0.7	28
67	Ionic liquid-assisted growth of methylammonium lead iodide spherical nanoparticles by a simple spin-coating method and photovoltaic properties of perovskite solar cells. RSC Advances, 2015, 5, 77495-77500.	1.7	60
68	Chemical Synthesis of Binary Solid Solution Bismuth-Antimony Nanoparticles with Control of Composition and Morphology. Chemistry Letters, 2014, 43, 615-617.	0.7	2
69	Dopant-Free Mexylaminotriazine Molecular Glass Hole Transport Layer for Perovskite Solar Cells. ACS Applied Energy Materials, 0, , .	2.5	4