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List of Publications by Year in descending order

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Version: 2024-02-01

61 papers	2,511 citations	257101 24 h-index	197535 49 g-index
61 all docs	61 docs citations	61 times ranked	3924 citing authors

#	Article	IF	Citations
1	A highly efficient flexible dye-sensitized solar cell based on nickel sulfide/platinum/titanium counter electrode. Nanoscale Research Letters, 2015, 10, 1.	3.1	959
2	Double-Sided Transparent TiO2 Nanotube/ITO Electrodes for Efficient CdS/CuInS2 Quantum Dot-Sensitized Solar Cells. Nanoscale Research Letters, 2017, 12, 4.	3.1	88
3	Ï€â€Conjugated Small Molecules Modified SnO₂ Layer for Perovskite Solar Cells with over 23% Efficiency. Advanced Energy Materials, 2021, 11, 2101416.	10.2	84
4	Improved conversion efficiency of Ag2S quantum dot-sensitized solar cells based on TiO2 nanotubes with a ZnO recombination barrier layer. Nanoscale Research Letters, 2011, 6, 462.	3.1	83
5	Improved conversion efficiency of CdS quantum dot-sensitized TiO2 nanotube-arrays using CuInS2 as a co-sensitizer and an energy barrier layer. Journal of Materials Chemistry, 2011, 21, 16430.	6.7	76
6	Semitransparent polymer solar cells using V2O5/Ag/V2O5 as transparent anodes. Organic Electronics, 2011, 12, 1223-1226.	1.4	68
7	Semitransparent inverted polymer solar cells using MoO3/Ag/WO3 as highly transparent anodes. Solar Energy Materials and Solar Cells, 2011, 95, 877-880.	3.0	64
8	High efficiency CH3NH3PbI3:CdS perovskite solar cells with CuInS2 as the hole transporting layer. Journal of Power Sources, 2017, 341, 396-403.	4.0	62
9	Ag2S quantum dots-sensitized TiO2 nanotube array photoelectrodes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 106-111.	1.7	57
10	Efficient and stable perovskite solar cells thanks to dual functions of oleyl amine-coated PbSO4(PbO)4 quantum dots: Defect passivation and moisture/oxygen blocking. Nano Energy, 2020, 68, 104313.	8.2	56
11	Novel Electron Transport Layer Material for Perovskite Solar Cells with Over 22% Efficiency and Longâ€Term Stability. Advanced Functional Materials, 2020, 30, 2004933.	7.8	55
12	Photoferroelectric perovskite solar cells: Principles, advances and insights. Nano Today, 2021, 37, 101062.	6.2	54
13	Multifunctional <scp>CNT</scp>:<scp>TiO₂</scp> additives in <scp>spiroâ€OMeTAD</scp> layer for highly efficient and stable perovskite solar cells. EcoMat, 2021, 3, e12099.	6.8	53
14	Improved conversion efficiency of CdS quantum dots-sensitized TiO₂nanotube array using ZnO energy barrier layer. Nanotechnology, 2011, 22, 015202.	1.3	43
15	Enhancing the efficiency and stability of perovskite solar cells by incorporating CdS and Cd(SCN₂H₄)₂Cl₂ into the CH₃NH₃PbI₃ active layer. Journal of Materials Chemistry A, 2019, 7, 1124-1137.	5.2	36
16	Enhanced Performance of Flexible Dye-Sensitized Solar Cell based on Nickel Sulfide/Polyaniline/Titanium Counter Electrode. Electrochimica Acta, 2014, 149, 117-125.	2.6	33
17	Semitransparent inverted polymer solar cells employing a sol-gel-derived TiO2 electron-selective layer on FTO and MoO3/Ag/MoO3 transparent electrode. Nanoscale Research Letters, 2014, 9, 579.	3.1	32
18	Toward highâ€efficiency stable 2D/3D perovskite solar cells by incorporating multifunctional CNT:TiO₂ additives into 3D perovskite layer. EcoMat, 2022, 4, e12166.	6.8	31

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19	PEDOT:PSS and glucose assisted preparation of molybdenum disulfide/single-wall carbon nanotubes counter electrode and served in dye-sensitized solar cells. Electrochimica Acta, 2014, 142, 68-75.	2.6	30
20	Spiroâ€OMeTAD:Sb₂S₃ Hole Transport Layer with Triple Functions of Overcoming Lithium Salt Aggregation, Longâ€Term High Conductivity, and Defect Passivation for Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100622.	3.1	30
21	Characterization of Polymer/TiO₂ Photovoltaic Cells by Intensity Modulated Photocurrent Spectroscopy. Journal of Physical Chemistry C, 2009, 113, 1624-1631.	1.5	29
22	Interpenetrated Inorganic Hybrids for Efficiency Enhancement of PbS Quantum Dot Solar Cells. Advanced Energy Materials, 2014, 4, 1400512.	10.2	29
23	Strategies for highâ€performance perovskite solar cells from materials, film engineering to carrier dynamics and photon management. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	27
24	Double-sided transparent electrodes of TiO2 nanotube arrays for highly efficient CdS quantum dot-sensitized photoelectrodes. Journal of Materials Science, 2014, 49, 1868-1874.	1.7	26
25	Synergistic Effect of Lewis Base Polymers and Graphene in Enhancing the Efficiency of Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 3928-3936.	2.5	25
26	Efficient perovskite solar cells based on low-temperature solution-processed (CH3NH3)PbI3 perovskite/CuInS2 planar heterojunctions. Nanoscale Research Letters, 2014, 9, 457.	3.1	22
27	Efficient Nickel Sulfide and Graphene Counter Electrodes Decorated with Silver Nanoparticles and Application in Dye-Sensitized Solar Cells. Nanoscale Research Letters, 2016, 11, 239.	3.1	22
28	Enhancing the performance of inverted perovskite solar cells by inserting a ZnO:TIPD film between PCBM layer and Ag electrode. Solar Energy Materials and Solar Cells, 2019, 198, 11-18.	3.0	21
29	Perovskite Solar Cells Employing a PbSO₄(PbO)₄ Quantum Dot-Doped Spiro-OMeTAD Hole Transport Layer with an Efficiency over 22%. ACS Applied Materials & Interfaces, 2022, 14, 2989-2999.	4.0	19
30	Nickel sulfide films with significantly enhanced electrochemical performance induced by self-assembly of 4-aminothiophenol and their application in dye-sensitized solar cells. RSC Advances, 2014, 4, 64068-64074.	1.7	18
31	A novel hierarchical ZnO-nanosheet-nanorod-structured film for quantum-dot-sensitized solar cells. Electrochimica Acta, 2018, 274, 326-333.	2.6	17
32	UV Treatment of Low-Temperature Processed SnO2 Electron Transport Layers for Planar Perovskite Solar Cells. Nanoscale Research Letters, 2018, 13, 216.	3.1	17
33	Improving the efficiency of ITO/nc-TiO2/CdS/P3HT:PCBM/PEDOT:PSS/Ag inverted solar cells by sensitizing TiO2 nanocrystalline film with chemical bath-deposited CdS quantum dots. Nanoscale Research Letters, 2013, 8, 453.	3.1	16
34	Electrochemical and atomic force microscopy investigations of the effect of CdS on the local electrical properties of CH₃NH₃PbI₃:CdS perovskite solar cells. Journal of Materials Chemistry C, 2017, 5, 12112-12120.	2.7	16
35	Effects of the incorporation amounts of CdS and Cd(SCN2H4)2Cl2 on the performance of perovskite solar cells. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 283-291.	2.4	16
36	PEDOT:PSS assisted preparation of a graphene/nickel cobalt oxide hybrid counter electrode to serve in efficient dye-sensitized solar cells. RSC Advances, 2015, 5, 100159-100168.	1.7	15

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37	Analysis and design of thermo-optical variable optical attenuator using three-waveguide directional couplers based on SOI. Optics Express, 2008, 16, 20334.	1.7	13
38	Fabrication of silver sulfide thin films for efficient organic solar cells with high short-circuit currents based on double heterojunctions. Journal of Power Sources, 2015, 298, 259-268.	4.0	13
39	Electric dipole moment-assisted charge extraction and effective defect passivation in perovskite solar cells by depositing a PCBM:TIPD blend film on a CH₃NH₃PbI₃ layer. Journal of Materials Chemistry C, 2019, 7, 11559-11568.	2.7	13
40	Improving conversion efficiency of CdS quantum dots-sensitized TiO2 nanotube arrays by doping with Zn2+ and decorating with ZnO nanoparticles. Materials Chemistry and Physics, 2014, 146, 531-537.	2.0	12
41	Cadmium selenide quantum dots solar cells featuring nickel sulfide/polyaniline as efficient counter electrode provide 4.15% efficiency. RSC Advances, 2015, 5, 42101-42108.	1.7	12
42	Analysis and design of tunable wideband microwave photonics phase shifter based on Fabryâ€“Perot cavity and Bragg mirrors in silicon-on-insulator waveguide. Applied Optics, 2010, 49, 2391.	2.1	11
43	Analytical model for the photocurrent-voltage characteristics of bilayer MEH-PPV/TiO2 photovoltaic devices. Nanoscale Research Letters, 2011, 6, 350.	3.1	10
44	Sb2S3 Thickness-Related Photocurrent and Optoelectronic Processes in TiO2/Sb2S3/P3HT Planar Hybrid Solar Cells. Nanoscale Research Letters, 2019, 14, 325.	3.1	10
45	Improving the efficiency of cadmium sulfide-sensitized titanium dioxide/indium tin oxide glass photoelectrodes using silver sulfide as an energy barrier layer and a light absorber. Nanoscale Research Letters, 2014, 9, 605.	3.1	9
46	A new method to disperse CdS quantum dot-sensitized TiO2 nanotube arrays into P3HT:PCBM layer for the improvement of efficiency of inverted polymer solar cells. Nanoscale Research Letters, 2014, 9, 240.	3.1	9
47	Nickel sulfide counter electrode modified with polypyrrole nanoparticles to enhance catalytic ability for flexible dye-sensitized solar cells. RSC Advances, 2016, 6, 61278-61283.	1.7	9
48	Defect Passivation with Metal Cations toward Efficient and Stable Perovskite Solar Cells Exceeding 22.7% Efficiency. ACS Applied Energy Materials, 2021, 4, 11144-11150.	2.5	9
49	Influence of Surface Modification with Carboxylic Acids on Performance of Polymer/Titania Photovoltaic Devices. Journal of Electronic Materials, 2010, 39, 1-7.	1.0	7
50	Nanotetrapods: quantum dot hybrid for bulk heterojunction solar cells. Nanoscale Research Letters, 2013, 8, 434.	3.1	7
51	Effect of (CH₃)₂Sn(COOH)₂ Electron Transport Layer Thickness on Device Performance in n-i-p Planar Heterojunction Perovskite Solar Cells. Journal of Physical Chemistry C, 2021, 125, 7552-7559.	1.5	7
52	Design of a vector-sum integrated microwave photonic phase shifter in silicon-on-insulator waveguides. Applied Optics, 2011, 50, 2523.	2.1	6
53	Photocurrent enhancement of the CdS/TiO 2 /ITO photoelectrodes achieved by controlling the deposition amount of Ag 2 S nanocrystals. Applied Surface Science, 2015, 356, 574-580.	3.1	6
54	Comparison of performance and stability of perovskite solar cells with CuInS2 and PH1000 hole transport layers fabricated in a humid atmosphere. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	6

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55	Morphology modulation of organic photovoltaics with block copolymer additive based on rational design strategies. Organic Electronics, 2021, 88, 106020.	1.4	5
56	Hybrid bulk-heterojunction solar cells based on all inorganic nanoparticles. Solar Energy Materials and Solar Cells, 2014, 120, 231-237.	3.0	4
57	A comparative study of the effects of Ag2S films prepared by MPD and HRTD methods on the performance of polymer solar cells. Applied Surface Science, 2016, 384, 217-224.	3.1	3
58	Enhanced performance of dye-sensitized solar cells based on an electrodeposited-poly(3,4-ethylenedioxythiophene)/platinum composite counter electrode. Synthetic Metals, 2014, 197, 204-209.	2.1	1
59	A new and unique electro-optical properties found in polymer/liquid crystal films. , 2008, , .		0
60	Affect on the UV polymerization condition of polymer liquid crystal materials for variable optical attenuator. , 2008, , .		0
61	Spectroscopic Study the Air-Processed Degradation Mechanism of Inverted Organic Solar Cells. Frontiers in Physics, 2020, 8, .	1.0	0