Chengwu Shi

List of Publications by Year in descending order

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52	822	17 h-index	26
papers	citations		g-index
52	52	52	1100 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	The adsorption of 4-tert-butylpyridine on the nanocrystalline TiO2 and Raman spectra of dye-sensitized solar cells in situ. Vibrational Spectroscopy, 2005, 39, 99-105.	2.2	73
2	Preparation of ultra-thin and high-quality WO3 compact layers and comparision of WO3 and TiO2 compact layer thickness in planar perovskite solar cells. Journal of Solid State Chemistry, 2016, 238, 223-228.	2.9	50
3	Combination of short-length TiO2 nanorod arrays and compact PbS quantum-dot thin films for efficient solid-state quantum-dot-sensitized solar cells. Applied Surface Science, 2017, 410, 8-13.	6.1	43
4	A two-layer structured PbI ₂ thin film for efficient planar perovskite solar cells. Nanoscale, 2015, 7, 12092-12095.	5. 6	40
5	Pyrolysis preparation of Cu2ZnSnS4 thin film and its application to counter electrode in quantum dot-sensitized solar cells. Electrochimica Acta, 2014, 118, 41-44.	5.2	38
6	PbICl: A new precursor solution for efficient planar perovskite solar cell by vapor-assisted solution process. Applied Surface Science, 2015, 357, 2372-2377.	6.1	37
7	Influence of PbCl2 content in Pbl2 solution of DMF on the absorption, crystal phase, morphology of lead halide thin films and photovoltaic performance in planar perovskite solar cells. Journal of Solid State Chemistry, 2015, 231, 20-24.	2.9	30
8	Structural and electrochemical characterization of LiFePO4/C prepared by a sol–gel route with longand short-chain carbon sources. Journal of Solid State Electrochemistry, 2009, 13, 921-926.	2.5	27
9	Nb-Doping TiO ₂ Electron Transporting Layer for Efficient Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 2576-2581.	5.1	26
10	Facile synthesis of simple arylamine-substituted naphthalene derivatives as hole-transporting materials for efficient and stable perovskite solar cells. Journal of Power Sources, 2019, 425, 87-93.	7.8	26
11	Two-dimensional triphenylene cored hole-transporting materials for efficient perovskite solar cells. Chemical Communications, 2020, 56, 1879-1882.	4.1	25
12	All-solid-state quantum-dot-sensitized solar cells with compact PbS quantum-dot thin films and TiO2 nanorod arrays. Ceramics International, 2017, 43, 10052-10056.	4.8	22
13	Soluble tetra-methoxyltriphenylamine substituted zinc phthalocyanine as dopant-free hole transporting materials for perovskite solar cells. Organic Electronics, 2019, 69, 248-254.	2.6	22
14	Gradient-band-gap strategy for efficient solid-state PbS quantum-dot sensitized solar cells. Nanoscale, 2019, 11, 8402-8407.	5.6	22
15	Y-doping TiO2 nanorod arrays for efficient perovskite solar cells. Superlattices and Microstructures, 2018, 117, 283-287.	3.1	18
16	Yttrium-doped TiO2 compact layers for efficient perovskite solar cells. Journal of Solid State Chemistry, 2019, 275, 206-209.	2.9	18
17	The pyrolysis preparation of the compact and full-coverage AgSbS2 thin films and the photovoltaic performance of the corresponding solar cells. Journal of Materials Science and Technology, 2022, 98, 268-271.	10.7	18
18	Tunable Br-doping CH 3 NH 3 PbI $3\hat{a}$ Br x thin films for efficient planar perovskite solar cells. Superlattices and Microstructures, 2017, 104, 445-450.	3.1	17

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19	200-nm long TiO2 nanorod arrays for efficient solid-state PbS quantum dot-sensitized solar cells. Journal of Energy Chemistry, 2018, 27, 1214-1218.	12.9	17
20	A 200-nm length TiO2 nanorod array with a diameter of 13 nm and areal density of 1100 $\hat{A}\mu$ m \hat{a}^2 for efficient perovskite solar cells. Ceramics International, 2017, 43, 12534-12539.	4.8	15
21	Hydrolysis preparation of the compact TiO2layer using metastable TiCl4isopropanol/water solution for inorganic–organic hybrid heterojunction perovskite solar cells. Journal of Semiconductors, 2015, 36, 074003.	3.7	14
22	Short-length and high-density TiO 2 nanorod arrays for the efficient charge separation interface in perovskite solar cells. Journal of Solid State Chemistry, 2017, 249, 169-173.	2.9	14
23	The low-temperature preparation for crystalline Sb2S3 thin films and photovoltaic performance of the corresponding solar cells. Solar Energy, 2021, 217, 25-28.	6.1	14
24	Mass Transfer Performance for Low SO ₂ Absorption into Aqueous <i>N</i> , <i>N</i> à,6≥²-Bis(2-hydroxypropyl)piperazine Solution in a Î,-Ring Packed Column. Industrial & Engineering Chemistry Research, 2014, 53, 4462-4468.	3.7	13
25	Fabrication of Sb2S3 sensitized TiO2 nanorod array solar cells using spin-coating assisted successive ionic layer absorption and reaction. Materials Today Communications, 2019, 19, 393-395.	1.9	13
26	Ultrathin SnO ₂ Buffer Layer Aids in Interface and Band Engineering for Sb ₂ (S,Se) ₃ Solar Cells with over 8% Efficiency. ACS Applied Energy Materials, 2022, 5, 3022-3033.	5.1	13
27	Pyrolysis preparation of WO ₃ thin films using ammonium metatungstate DMF/water solution for efficient compact layers in planar perovskite solar cells. Journal of Semiconductors, 2016, 37, 033002.	3.7	12
28	130°C CH 3 NH 3 I treatment temperature in vapor-assisted solution process for large grain and full-coverage perovskite thin films. Optical Materials, 2016, 60, 230-234.	3.6	12
29	Influence of dimethoxytriphenylamine groups on carbazole-based hole transporting materials for perovskite solar cells. Solar Energy, 2019, 190, 361-366.	6.1	12
30	Influence of Surface Modifier Molecular Structures on the Photovoltaic Performance of Sb ₂ S ₃ â€Sensitized TiO ₂ Nanorod Array Solar Cells. Energy Technology, 2020, 8, 1901368.	3.8	12
31	Combination of full-coverage Sb ₂ S ₃ thin films and <i>spiro</i> OMeTAD:P3HT hybrid hole transporting materials for efficient solar cells. New Journal of Chemistry, 2021, 45, 10357-10361.	2.8	12
32	Simply designed nonspiro fluorene-based hole-transporting materials for high performance perovskite solar cells. Synthetic Metals, 2019, 250, 42-48.	3.9	11
33	Preparation of 596Ânm-thick and full-coverage CH3NH3Pbl3â^'xBrx thin films using 1.9ÂM Pbl2·NMP complex solution in DMF. Superlattices and Microstructures, 2016, 100, 179-184.	3.1	9
34	The non-aqueous chemical bath deposition of Sb2S3 thin films using SbCl3-thioacetamide complex solution in DMF and the photovoltaic performance of the corresponding solar cells. Materials Letters, 2019, 256, 126636.	2.6	9
35	Introduction of polysulfide anions to increase the loading quantity of PbS quantum-dots for efficient solid-state quantum-dot sensitized TiO2 nanorod array solar cells. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	8
36	High concentration PbI 2 ·DMSO complex precursor solution of 1.7ÂM in DMF for high-thickness and full-coverage CH 3 NH 3 PbI 3â^'x Br x thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 5603-5608.	2.2	7

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37	Fluorene-terminated hole transporting materials with a spiro[fluorene-9,9′-xanthene] core for perovskite solar cells. New Journal of Chemistry, 2021, 45, 5497-5502.	2.8	7
38	Preparation of ZnO nanorod arrays by hydrothermal procedure and its application in perovskite solar cells. Materials Research Innovations, 2016, 20, 338-342.	2.3	6
39	The pyrolysis preparation of porous Sb2SxSe3-x thin films and photovoltaic performance of the corresponding solar cells. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	6
40	Molecular tailor-making of zinc phthalocyanines as dopant-free hole-transporting materials for efficient and stable perovskite solar cells. Journal of Power Sources, 2021, 505, 230095.	7.8	6
41	Preparation of SnS thin films with gear-like sheet appearance by close-spaced vacuum thermal evaporation. International Journal of Modern Physics B, 2017, 31, 1744054.	2.0	4
42	PbICI precursor solutions for all solid-state PbS quantum-dot sensitized TiO2 nanorod array solar cells using successive ionic layer adsorption and reaction method. Current Applied Physics, 2018, 18, 648-651.	2.4	4
43	The low temperature pyrolysis preparation of In2S3 thin film and its application in Sb2S3 thin film solar cells. Materials Science in Semiconductor Processing, 2022, 137, 106186.	4.0	4
44	Highâ€crystallinity and largeâ€grain CH ₃ NH ₃ PbI ₃ thin films for efficient TiO ₂ nanorod array perovskite solar cells. Micro and Nano Letters, 2018, 13, 131-134.	1.3	3
45	A facile two-step preparation of compact and crystalline Sb2S3 thin film for efficient solar cells. Current Applied Physics, 2021, 29, 5-8.	2.4	3
46	Br-Doping CH ₃ NH ₃ PbI _{3â^'<i>x</i>} Br <i>_x</i> Thin Films for Efficient TiO ₂ Nanorod Array Perovskite Solar Cells. Journal of Nanoscience and Nanotechnology, 2018, 18, 5095-5100.	0.9	2
47	The low-temperature preparation for low-selenium Sb2SxSey thin film solar cells with efficiency of > 5%. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	2
48	Ultra-thin CdS buffer layer for efficient Sb2S3-sensitized TiO2 nanorod array solar cells using Sb-thiourea complex solution. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	2
49	In‧itu Growth Mirrorâ€Like Cobalt Sulfide Nanosheets on ITO for High Efficiency Counter Electrode of Dye‧ensitized Solar Cells**. ChemistrySelect, 2021, 6, 7537-7541.	1.5	2
50	Pb/S/1,2-ethanedithiol composite thin films for efficient solid-state quantum-dot sensitized TiO2 nanorod array solar cells. Journal of Materials Science: Materials in Electronics, 2018, 29, 11783-11789.	2.2	1
51	The Preparation of AgBiS ₂ Sensitized TiO ₂ Nanorod Array Solar Cells and Photovoltaic Performance of the Corresponding Solar Cells. Chemistry Letters, 2022, 51, 577-580.	1.3	1
52	Influence of N â€Butyldithiocarbamic Acid Content on the Properties of Sb 2 S 3 Sensitized TiO 2 Nanorod Arrays and Photovoltaic Performance of the Corresponding Solar Cells. ChemistrySelect, 2021, 6, 6507-6511.	1.5	0