Chengwu Shi

List of Publications by Year
in descending order

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52 papers	822 citations	471509 17 h-index	552781 26 g-index
52 all docs	52 docs citations	52 times ranked	1100 citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	The Preparation of AgBiS₂ Sensitized TiO₂ Nanorod Array Solar Cells and Photovoltaic Performance of the Corresponding Solar Cells. Chemistry Letters, 2022, 51, 577-580.	1.3	1
4	Ultrathin SnO₂ Buffer Layer Aids in Interface and Band Engineering for Sb₂(S,Se)₃ Solar Cells with over 8% Efficiency. ACS Applied Energy Materials, 2022, 5, 3022-3033.	5.1	13
5	Combination of full-coverage Sb₂S₃ 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
6	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
7	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
8	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
9	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
10	Inâ€Situ Growth Mirrorâ€Like Cobalt Sulfide Nanosheets on ITO for High Efficiency Counter Electrode of Dyeâ€Sensitized Solar Cells**. ChemistrySelect, 2021, 6, 7537-7541.	1.5	2
11	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
12	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
13	Fluorene-terminated hole transporting materials with a spiro[fluorene-9,9â€²-xanthene] core for perovskite solar cells. New Journal of Chemistry, 2021, 45, 5497-5502.	2.8	7
14	Two-dimensional triphenylene cored hole-transporting materials for efficient perovskite solar cells. Chemical Communications, 2020, 56, 1879-1882.	4.1	25
15	Influence of Surface Modifier Molecular Structures on the Photovoltaic Performance of Sb₂S₃â€Sensitized TiO₂ Nanorod Array Solar Cells. Energy Technology, 2020, 8, 1901368.	3.8	12
16	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
17	Influence of dimethoxytriphenylamine groups on carbazole-based hole transporting materials for perovskite solar cells. Solar Energy, 2019, 190, 361-366.	6.1	12
18	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

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19	Yttrium-doped TiO2 compact layers for efficient perovskite solar cells. Journal of Solid State Chemistry, 2019, 275, 206-209.	2.9	18
20	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
21	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
22	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
23	Gradient-band-gap strategy for efficient solid-state PbS quantum-dot sensitized solar cells. Nanoscale, 2019, 11, 8402-8407.	5.6	22
24	Simply designed nonspiro fluorene-based hole-transporting materials for high performance perovskite solar cells. Synthetic Metals, 2019, 250, 42-48.	3.9	11
25	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
26	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
27	PbICl 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
28	Y-doping TiO2 nanorod arrays for efficient perovskite solar cells. Superlattices and Microstructures, 2018, 117, 283-287.	3.1	18
29	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
30	Br-Doping CH₃NH₃PbI_{3âˆ’<i>x</i>}Br<i>_x</i> Thin Films for Efficient TiO₂ Nanorod Array Perovskite Solar Cells. Journal of Nanoscience and Nanotechnology, 2018, 18, 5095-5100.	0.9	2
31	Nb-Doping TiO₂ Electron Transporting Layer for Efficient Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 2576-2581.	5.1	26
32	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
33	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
34	Tunable Br-doping CH 3 NH 3 PbI 3âˆ’x Br x thin films for efficient planar perovskite solar cells. Superlattices and Microstructures, 2017, 104, 445-450.	3.1	17
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	A 200-nm length TiO2 nanorod array with a diameter of 13 nm and areal density of 1100 Âµmâˆ’2 for efficient perovskite solar cells. Ceramics International, 2017, 43, 12534-12539.	4.8	15
38	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
39	High concentration PbI 2 Â·DMSO complex precursor solution of 1.7ÂM in DMF for high-thickness and full-coverage CH 3 NH 3 PbI 3âˆ’x Br x thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 5603-5608.	2.2	7
40	Pyrolysis preparation of WO₃thin 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
41	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
42	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
43	Preparation of 596Ânm-thick and full-coverage CH3NH3PbI3âˆ’xBrx thin films using 1.9ÂM PbI2Â·NMP complex solution in DMF. Superlattices and Microstructures, 2016, 100, 179-184.	3.1	9
44	130ÂÂ°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
45	Influence of PbCl2 content in PbI2 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
46	A two-layer structured PbI₂thin film for efficient planar perovskite solar cells. Nanoscale, 2015, 7, 12092-12095.	5.6	40
47	Hydrolysis preparation of the compact TiO2layer using metastable TiCl4isopropanol/water solution for inorganicâ€“organic hybrid heterojunction perovskite solar cells. Journal of Semiconductors, 2015, 36, 074003.	3.7	14
48	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
49	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
50	Mass Transfer Performance for Low SO₂ Absorption into Aqueous <i>N</i>,<i>N</i>â€²-Bis(2-hydroxypropyl)piperazine Solution in a Î¸-Ring Packed Column. Industrial & Engineering Chemistry Research, 2014, 53, 4462-4468.	3.7	13
51	Structural and electrochemical characterization of LiFePO4/C prepared by a solâ€“gel route with long- and short-chain carbon sources. Journal of Solid State Electrochemistry, 2009, 13, 921-926.	2.5	27
52	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