

Aixiang Wei

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

555
citations

13
h-index

21
g-index

55
ext. papers

676
ext. citations

3.9
avg, IF

3.94
L-index

#	Paper	IF	Citations
51	Study of MAPb(1-x)Br _x 3 thin film and perovskite solar cells based on hole transport material-free and carbon electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2022 , 33, 2654	2.1	
50	Non-Layered Te/In S Tunneling Heterojunctions with Ultrahigh Photoresponsivity and Fast Photoresponse.. <i>Small</i> , 2022 , e2200445	11	3
49	An artificial optoelectronic nociceptor based on In ₂ S ₃ memristor. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 125401	3	2
48	Electrocatalytic performance of ReS ₂ nanosheets in hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 2293-2293	6.7	0
47	Self-supported hierarchical porous Li ₄ Ti ₅ O ₁₂ /carbon arrays for boosted lithium ion storage. <i>Journal of Energy Chemistry</i> , 2021 , 54, 754-760	12	16
46	Large-area ReS ₂ monolayer films on flexible substrate for SERS based molecular sensing with strong fluorescence quenching. <i>Applied Surface Science</i> , 2021 , 542, 148757	6.7	3
45	Layer-dependent electrical transport property of two-dimensional ReS ₂ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 24342-24350	2.1	1
44	Anchoring CoS on three-dimensional porous rGO thin films as efficient counter electrodes for dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 22546-22553	2.1	
43	Effect of Cs ⁺ Fraction on Photovoltaic Performance of Perovskite Solar Cells Based on Cs _x MA _{1-x} PbI ₃ Absorption Layers. <i>Journal of Electronic Materials</i> , 2020 , 49, 7044-7053	1.9	1
42	Effect of FA ⁺ Fraction and Dipping Time on Performance of FA _x MA _{1-x} PbI ₃ Films and Perovskite Solar Cells. <i>Journal of Electronic Materials</i> , 2020 , 49, 7054-7064	1.9	
41	Growth of large-area two-dimensional non-layered In ₂ S ₃ continuous thin films and application for photodetector device. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 18175-18185	2.1	4
40	Synthesis of vertically aligned CoS prismatic nanorods as counter electrodes for dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 1541-1546	2.1	6
39	Synthesis and characterization of the ultra-thin SnS flakes and the micron-thick SnS crystals by chemical vapor deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 10879-10885	2.1	6
38	Study of perovskite solar cells based on mixed-organic-cation FAMAPbI absorption layer. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 11822-11828	3.6	7
37	Controllable growth of large-area atomically thin ReS ₂ films and their thickness-dependent optoelectronic properties. <i>Applied Physics Letters</i> , 2019 , 114, 153102	3.4	14
36	Atomic Layer Deposition-Assisted Construction of Binder-Free Ni@N-Doped Carbon Nanospheres Films as Advanced Host for Sulfur Cathode. <i>Nano-Micro Letters</i> , 2019 , 11, 64	19.5	9
35	Thickness-Dependent Optical Properties and In-Plane Anisotropic Raman Response of the 2D In ₂ S ₃ . <i>Advanced Optical Materials</i> , 2019 , 7, 1901085	8.1	25

34	Controllable growth of large-area monolayer ReS ₂ flakes by chemical vapor deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 15042-15053	2.1	3
33	Study of carbon-based hole-conductor-free perovskite solar cells. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11403-11410	6.7	10
32	Direct growth of Cu ₂ ZnSnS ₄ on three-dimensional porous reduced graphene oxide thin films as counter electrode with high conductivity and excellent catalytic activity for dye-sensitized solar cells. <i>Journal of Materials Science</i> , 2018 , 53, 2748-2757	4.3	13
31	Chemical vapor deposition of two-dimensional SnS ₂ nanoflakes and flower-shaped SnS ₂ . <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 16057-16063	2.1	5
30	Graphene/In ₂ S ₃ van der Waals Heterostructure for Ultrasensitive Photodetection. <i>ACS Photonics</i> , 2018 , 5, 4912-4919	6.3	28
29	Hydrothermal synthesis of WSe ₂ films and their application in high-performance photodetectors. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	8
28	Controlling the morphology of ultrathin MoS ₂ /MoO ₂ nanosheets grown by chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 05G509	2.9	1
27	Effects of mixed solvent on morphology of CH ₃ NH ₃ PbI ₃ absorption layers and photovoltaic performance of perovskite solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 18868-18877	2.1	17
26	Synthesis of Submillimeter-Scale Single Crystal Stannous Sulfide Nanoplates for Visible and Near-Infrared Photodetectors with Ultrahigh Responsivity. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800154	6.4	13
25	The characteristics of Ta ₂ O ₅ films deposited by radio frequency pure oxygen ion assisted deposition (RF/OAD) technology. <i>Journal of Applied Physics</i> , 2017 , 121, 065302	2.5	2
24	Synthesis of CoS@NiS core/shell nanoarrays as efficient counter electrode for dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 4904-4907	2.1	6
23	Colloidally synthesized MoSe ₂ nano-flowers anchored on three-dimensional porous reduced graphene oxide thin films as advanced counter electrode for dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 15418-15422	2.1	5
22	Effect of solution concentration on the properties of Cu ₂ ZnSnS ₄ nanocrystalline thin films prepared by microwave irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 3407-3414	2.1	1
21	Synthesis of nanostructured CuInS ₂ thin films and their application in dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	3
20	Rapid synthesis of Cu ₂ ZnSnS ₄ nanocrystalline thin films directly on transparent conductive glass substrates by microwave irradiation. <i>Materials Letters</i> , 2015 , 148, 63-66	3.3	10
19	Synthesis of flower-like MoS ₂ nanosheets microspheres by hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 8160-8166	2.1	46
18	Synthesis and characterization of Cu ₂ ZnSnS ₄ nanocrystals prepared by microwave irradiation method. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5645-5652	2.1	8
17	In-situ growth of Cu ₂ ZnSnS ₄ nanospheres thin film on transparent conducting glass and its application in dye-sensitized solar cells. <i>Materials Letters</i> , 2015 , 141, 228-230	3.3	20

16	Solvothermal synthesis of Cu ₂ ZnSnS ₄ nanocrystalline thin films for application of solar cells. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 797-805	6.7	26
15	Dye-sensitized solar cells based on ZnO nanoflowers and TiO ₂ nanoparticles composite photoanodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 1122-1126	2.1	26
14	Dye-sensitized solar cells based on multilayered ultrafine TiO ₂ nanowire photoanodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 4008-4011	2.1	5
13	Effect of different complexing agents on the properties of chemical-bath-deposited ZnS thin films. <i>Journal of Alloys and Compounds</i> , 2014 , 588, 228-234	5.7	45
12	Growth of nanosheet array and nanosheet microsphere CuInS ₂ thin films on transparent conducting substrates. <i>Electronic Materials Letters</i> , 2014 , 10, 1075-1079	2.9	2
11	Synthesis and characterization of CdSe nanocrystalline thin films deposited by chemical bath deposition. <i>Materials Science in Semiconductor Processing</i> , 2013 , 16, 1592-1598	4.3	34
10	SYNTHESIS OF SUB-10 NM TiO ₂ NANOWIRES FOR THE APPLICATION OF DYE-SENSITIZED SOLAR CELLS. <i>Functional Materials Letters</i> , 2013 , 06, 1350017	1.2	6
9	Preparation and characterization of ZnS thin films prepared by chemical bath deposition. <i>Materials Science in Semiconductor Processing</i> , 2013 , 16, 1478-1484	4.3	59
8	Influence of Deposition Parameters on the Morphology, Structural, and Optical Properties of ZnSe Nanocrystalline Thin Films. <i>Journal of Electronic Materials</i> , 2013 , 42, 684-691	1.9	3
7	Growth of Cu ₂ ZnSnS ₄ thin films on transparent conducting glass substrates by the solvothermal method. <i>Materials Letters</i> , 2013 , 111, 120-122	3.3	26
6	Solvothermal synthesis of CuInS ₂ powders and CuInS ₂ thin films for solar cell application. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 5055-5060	2.1	10
5	Investigation on the structure and optical properties of chemically deposited ZnSe nanocrystalline thin films. <i>Physica B: Condensed Matter</i> , 2013 , 410, 120-125	2.8	21
4	Growth of TiO ₂ nanowire bundle arrays and their application in dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 542-547	2.1	3
3	Structural and electrical properties of Ta ₂ O ₅ thin films prepared by photo-induced CVD. <i>Bulletin of Materials Science</i> , 2011 , 34, 443-446	1.7	6
2	Dye-Sensitized Solar Cells Based on the Composites Photoanodes of ZnO Microrods/TiO ₂ Nanoparticles. <i>Integrated Ferroelectrics</i> , 2011 , 127, 157-163	0.8	
1	High-quality two-dimensional tellurium flakes grown by high-temperature vapor deposition. <i>Journal of Materials Chemistry C</i> ,	7.1	2