

Yu Zhao

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.

95
papers

1,144
citations

20
h-index

28
g-index

98
ext. papers

1,395
ext. citations

4.4
avg, IF

4.77
L-index

#	Paper	IF	Citations
95	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	
94	Nonlinear optical properties of PtTe ₂ based saturable absorbers for ultrafast photonics. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5124-5133	7.1	2
93	Non-Layered Te/In S Tunneling Heterojunctions with Ultrahigh Photoresponsivity and Fast Photoresponse.. <i>Small</i> , 2022 , e2200445	11	3
92	An artificial optoelectronic nociceptor based on In ₂ S ₃ memristor. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 125401	3	2
91	Electrocatalytic performance of ReS ₂ nanosheets in hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 2293-2293	6.7	0
90	Two-dimensional palladium ditelluride: a novel saturable absorption material for ultrafast fiber lasers. <i>Infrared Physics and Technology</i> , 2021 , 103962	2.7	1
89	Nonlayered In ₂ S ₃ /Al ₂ O ₃ /CsPbBr ₃ Quantum Dot Heterojunctions for Sensitive and Stable Photodetectors. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5106-5114	5.6	2
88	Universal Strategy Integrating Strain and Interface Engineering to Drive High-Performance 2D Material Photodetectors. <i>Advanced Optical Materials</i> , 2021 , 9, 2100450	8.1	8
87	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
86	All-Dielectric Nanostructure Fabry-Pérot-Enhanced Mie Resonances Coupled with Photogain Modulation toward Ultrasensitive In ₂ S ₃ Photodetector. <i>Advanced Functional Materials</i> , 2021 , 31, 2007987	15.6	17
85	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
84	A reasonably designed 2D WS and CdS microwire heterojunction for high performance photoresponse. <i>Nanoscale</i> , 2021 , 13, 5660-5669	7.7	6
83	Rational construction of vertical few layer graphene/NiO core-shell nanoflake arrays for efficient oxygen evolution reaction. <i>Materials Research Bulletin</i> , 2021 , 139, 111260	5.1	3
82	A spontaneously formed plasmonic-MoTe ₂ hybrid platform for ultrasensitive Raman enhancement. <i>Cell Reports Physical Science</i> , 2021 , 2, 100526	6.1	3
81	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
80	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	
79	Metal-organic framework-derived cobalt diselenide as an efficient electrocatalyst for dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 12309-12316	2.1	4

78	Self-assembly In ₂ Se ₃ /SnSe ₂ heterostructure array with suppressed dark current and enhanced photosensitivity for weak signal. <i>Science China Materials</i> , 2020 , 63, 1560-1569	7.1	11
77	2D van der Waals heterostructures: processing, optical properties and applications in ultrafast photonics. <i>Materials Horizons</i> , 2020 , 7, 2903-2921	14.4	18
76	Light Output Enhancement of GaN-Based Light-Emitting Diodes Based on AlN/GaN Distributed Bragg Reflectors Grown on Si (111) Substrates. <i>Crystals</i> , 2020 , 10, 772	2.3	3
75	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
74	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	
73	Memtransistors Based on Non-Layered In ₂ S ₃ Two-Dimensional Thin Films With Optical-Modulated Multilevel Resistance States and Gate-Tunable Artificial Synaptic Plasticity. <i>IEEE Access</i> , 2020 , 8, 106726-106734	3.5	15
72	Experimental Observation of Ultrahigh Mobility Anisotropy of Organic Semiconductors in the Two-Dimensional Limit. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2888-2894	4	1
71	Aggregation-Induced Emission Luminogens for Direct Exfoliation of 2D Layered Materials in Ethanol. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000795	4.6	2
70	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
69	Epitaxial growth of large-scale In ₂ S ₃ nanoflakes and the construction of a high performance In ₂ S ₃ /Si photodetector. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12104-12113	7.1	19
68	Uniform and electroforming-free resistive memory devices based on solution-processed triple-layered NiO/Al ₂ O ₃ thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	2
67	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
66	High performance tin diselenide photodetectors dependent on thickness: a vertical graphene sandwiched device and interfacial mechanism. <i>Nanoscale</i> , 2019 , 11, 13309-13317	7.7	15
65	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
64	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
63	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
62	Preparation of vertically aligned two-dimensional SnS ₂ nanosheet film with strong saturable absorption to femtosecond laser. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 165101	3	4
61	Q-switched ytterbium fiber laser based on rhenium diselenide as a saturable absorber. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 465101	3	4

60	Thickness-Dependent Optical Properties and In-Plane Anisotropic Raman Response of the 2D In_2S_3 . <i>Advanced Optical Materials</i> , 2019 , 7, 1901085	8.1	25
59	Self-Powered SnS_2 Alloy/Silicon Heterojunction Photodetectors with High Sensitivity in a Wide Spectral Range. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40222-40231	9.5	37
58	2D In_2S_3 Nanoflake Coupled with Graphene toward High-Sensitivity and Fast-Response Bulk-Silicon Schottky Photodetector. <i>Small</i> , 2019 , 15, e1904912	11	44
57	A new circular spinneret system for electrospinning numerical approach and electric field optimization. <i>Thermal Science</i> , 2019 , 23, 2229-2235	1.2	1
56	Efficient passivation of monolayer MoS_2 by epitaxially grown 2D organic crystals. <i>Science Bulletin</i> , 2019 , 64, 1700-1706	10.6	8
55	Bright white-light upconversion from core-shell nanocrystals through interfacial energy transfer. <i>Dyes and Pigments</i> , 2018 , 154, 87-91	4.6	11
54	NiCo_2S_4 nanosheet thin film counter electrodes prepared by a two-step approach for dye-sensitized solar cells. <i>Materials Letters</i> , 2018 , 217, 185-188	3.3	12
53	Dy^{3+} Doped $\text{Ca}_9\text{Gd}(\text{PO}_4)_7$: a novel single-phase full-color emitting phosphor. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 6548-6555	2.1	23
52	Tunable Polarity Behavior and High-Performance Photosensitive Characteristics in Schottky-Barrier Field-Effect Transistors Based on Multilayer WS. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2745-2751	9.5	13
51	Study of carbon-based hole-conductor-free perovskite solar cells. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11403-11410	6.7	10
50	Direct growth of $\text{Cu}_2\text{ZnSnS}_4$ 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
49	Silver nanoparticle-decorated graphene oxide for surface-enhanced Raman scattering detection and optical limiting applications. <i>Journal of Materials Science</i> , 2018 , 53, 573-580	4.3	10
48	Synthesis of In_2S_3 thin films directly onto conductive substrates via PVP-assisted microwave irradiation method. <i>Materials Letters</i> , 2018 , 210, 66-69	3.3	10
47	Near-infrared upconversion of Nd through Gd-mediated interfacial energy transfer in core-shell nanoparticles. <i>Optical Materials Express</i> , 2018 , 8, 2449	2.6	4
46	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
45	Tunable electronic structure of graphdiyne/ MoS_2 van der Waals heterostructure. <i>Materials Letters</i> , 2018 , 228, 289-292	3.3	20
44	Out of plane stacking of InSe -based heterostructures towards high performance electronic and optoelectronic devices using a graphene electrode. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12509-12517	7.7	24
43	Graphene/ In_2S_3 van der Waals Heterostructure for Ultrasensitive Photodetection. <i>ACS Photonics</i> , 2018 , 5, 4912-4919	6.3	28

42	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
41	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
40	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	1
39	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
38	Doping-free white organic light-emitting diodes without blue molecular emitter: An unexplored approach to achieve high performance via exciplex emission. <i>Applied Physics Letters</i> , 2017 , 110, 061105	3.4	32
37	Studies on up-converting Ho ³⁺ -Yb ³⁺ -F ⁺ Ir ³⁺ -doped TiO ₂ nanoparticles for enhancing efficiency of dye-sensitized solar cells. <i>Optical Materials</i> , 2017 , 69, 219-225	3.3	5
36	High-Performance Blue Molecular Emitter-Free and Doping-Free Hybrid White Organic Light-Emitting Diodes: an Alternative Concept To Manipulate Charges and Excitons Based on Exciplex and Electroplex Emission. <i>ACS Photonics</i> , 2017 , 4, 1566-1575	6.3	62
35	Regulating Charge and Exciton Distribution in High-Performance Hybrid White Organic Light-Emitting Diodes with n-Type Interlayer Switch. <i>Nano-Micro Letters</i> , 2017 , 9, 37	19.5	32
34	Synthesis and up-conversion properties of Ho ³⁺ -Yb ³⁺ -F ⁺ Ir ³⁺ -doped TiO ₂ nanoparticles and their application in dye-sensitized solar cells. <i>Materials Research Bulletin</i> , 2017 , 88, 1-8	5.1	17
33	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
32	High-performance hybrid white organic light-emitting diodes exploiting blue thermally activated delayed fluorescent dyes. <i>Dyes and Pigments</i> , 2017 , 147, 83-89	4.6	26
31	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
30	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
29	Photon upconversion in Yb/Tb co-sensitized core-shell nanocrystals by interfacial energy transfer. <i>Optical Materials Express</i> , 2017 , 7, 1022	2.6	3
28	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
27	Synthesis of NiCo ₂ S ₄ nanowire arrays through ion exchange reaction and their application in Pt-free counter-electrode. <i>Materials Letters</i> , 2016 , 166, 154-157	3.3	22
26	Enhanced light extraction of GaN-based light-emitting diodes with periodic textured SiO ₂ on Al-doped ZnO transparent conductive layer. <i>Chinese Physics B</i> , 2016 , 25, 078502	1.2	2
25	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

24	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
23	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
22	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
21	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
20	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
19	Junction temperature measurement of GaN-based light-emitting diodes using temperature-dependent resistance. <i>Semiconductor Science and Technology</i> , 2014 , 29, 035008	1.8	7
18	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
17	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
16	High-Power Light-Emitting Diodes Package With Phase Change Material. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2014 , 4, 1747-1753	1.7	1
15	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
14	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
13	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
12	Effect of stacking type in precursors on composition, morphology and electrical properties of the CIGS films. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 2553-2557	2.1	13
11	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
10	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
9	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
8	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
7	Structural and optical properties of CdS thin films prepared by chemical bath deposition at different ammonia concentration and S/Cd molar ratios. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 457-462	2.1	17

- 6 Investigation of the ZnS_xSe_{1-x} thin films prepared by chemical bath deposition. *Journal of Materials Science: Materials in Electronics*, **2013**, 24, 1348-1353 2.1 8
- 5 Transport and interfacial transfer of electrons in dye-sensitized solar cells based on a TiO₂ nanoparticle/TiO₂ nanowire double-layer working electrode. *Journal of Renewable and Sustainable Energy*, **2013**, 5, 033101 2.5 8
- 4 Design and tolerance analysis of photonic crystal slabs with ultrahigh reflection. *Optical Engineering*, **2011**, 50, 114602 1.1
- 3 High Quality GaN Grown on Si(111) Using Fast Coalescence Growth. *Japanese Journal of Applied Physics*, **2011**, 50, 121001 1.4 2
- 2 Influence of V/III Ratio of Low Temperature Grown AlN Interlayer on the Growth of GaN on Si(111) Substrate. *Japanese Journal of Applied Physics*, **2011**, 50, 105501 1.4 3
- 1 High-quality two-dimensional tellurium flakes grown by high-temperature vapor deposition. *Journal of Materials Chemistry C*, 7.1 2