

Yu Zhou

List of Publications by Year in descending order

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249298

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4844
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertical Heterogeneous Integration of Metal Halide Perovskite Quantum-Wires/Nanowires for Flexible Narrowband Photodetectors. <i>Nano Letters</i> , 2022, 22, 3062-3070.	4.5	18
2	Halide-exchanged perovskite photodetectors for wearable visible-blind ultraviolet monitoring. <i>Nano Energy</i> , 2022, 100, 107516.	8.2	33
3	Implantable Electronic Medicine Enabled by Bioresorbable Microneedles for Wireless Electrotherapy and Drug Delivery. <i>Nano Letters</i> , 2022, 22, 5944-5953.	4.5	36
4	A highly-efficient concentrated perovskite solar cell-thermoelectric generator tandem system. <i>Journal of Energy Chemistry</i> , 2021, 59, 730-735.	7.1	16
5	Three-dimensional perovskite nanowire array-based ultrafast resistive RAM with ultralong data retention. <i>Science Advances</i> , 2021, 7, eabg3788.	4.7	29
6	To Be Higher and Stronger—Metal Oxide Electron Transport Materials for Perovskite Solar Cells. <i>Small</i> , 2020, 16, e1902579.	5.2	80
7	Enhanced Photocatalytic Property of $\text{I}^3\text{-CsPbI}_3$ Perovskite Nanocrystals with WS_2 . <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1219-1229.	3.2	33
8	Metal Nanoparticle Harvesting by Continuous Rotating Electrodeposition and Separation. <i>Matter</i> , 2020, 3, 1294-1307.	5.0	11
9	Evidence for Interfacial Octahedral Coupling as a Route to Enhance Magnetoresistance in Perovskite Oxide Superlattices. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901576.	1.9	8
10	Rapid Fabrication, Microstructure, and in Vitro and in Vivo Investigations of a High-Performance Multilayer Coating with External, Flexible, and Silicon-Doped Hydroxyapatite Nanorods on Titanium. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4244-4262.	2.6	10
11	Improved Moisture Stability of Perovskite Solar Cells Using N719 Dye Molecules. <i>Solar Rrl</i> , 2019, 3, 1900345.	3.1	30
12	High Efficient Large-area Perovskite Solar Cells Based on Paintable Carbon Electrode with NiO Nanocrystal-carbon Intermediate Layer. <i>Chemistry Letters</i> , 2019, 48, 734-737.	0.7	8
13	All Solution-Processed $\text{Cu}_2\text{ZnSnS}_4$ Solar Cell by Using High-Boiling-Point Solvent Treated Ball-Milling Process with Efficiency Exceeding 6%. <i>ChemistrySelect</i> , 2019, 4, 982-989.	0.7	4
14	Critical roles of potassium in charge-carrier balance and diffusion induced defect passivation for efficient inverted perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5666-5676.	5.2	62
15	Enhancing electron transport via graphene quantum dot/ SnO_2 composites for efficient and durable flexible perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1878-1888.	5.2	67
16	All-Layer Sputtering-Free $\text{Cu}_2\text{Zn}^{1-x}\text{Cd}_x\text{Sn}_4$ Solar Cell with Efficiency Exceeding 7.5%. <i>ChemistrySelect</i> , 2019, 4, 5979-5983.	0.7	1
17	An Excellent Modifier: Carbon Quantum Dots for Highly Efficient Carbon-Electrode-Based Methylammonium Lead Iodide Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900146.	3.1	27
18	In situ formation of a 2D/3D heterostructure for efficient and stable CsPb_2Br solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22675-22682.	5.2	63

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19	Synergistic effect of charge separation and defect passivation using zinc porphyrin dye incorporation for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26334-26341.	5.2	44
20	Improved Moisture Stability of Perovskite Solar Cells Using N719 Dye Molecules. <i>Solar Rrl</i> , 2019, 3, 1970115.	3.1	1
21	Reduced Graphene Oxide/CZTS _x Se _{1-x} Composites as a Novel Hole-Transport Functional Layer in Perovskite Solar Cells. <i>ChemElectroChem</i> , 2019, 6, 1500-1507.	1.7	9
22	Efficient Inorganic Cesium Lead Mixed-Halide Perovskite Solar Cells Prepared by Flash-Evaporation Printing. <i>Energy Technology</i> , 2019, 7, 1800986.	1.8	7
23	Ultrathin Zn ₂ SnO ₄ (ZTO) passivated ZnO nanocone arrays for efficient and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2019, 361, 60-66.	6.6	39
24	Bending Durable and Recyclable Mesoporous Perovskite Solar Cells Based on Superaligned ZnO Nanorod Electrode. <i>Solar Rrl</i> , 2018, 2, 1700194.	3.1	25
25	All-Carbon-Electrode-Based Endurable Flexible Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1706777.	7.8	242
26	Novel Design for Flexible Quasi-solid-state Dye-sensitized Solar Cells Based on Heat-resistant Glass Paper. <i>Chemistry Letters</i> , 2018, 47, 377-380.	0.7	4
27	Economically synthesized NiCo ₂ S ₄ /reduced graphene oxide composite as efficient counter electrode in dye-sensitized solar cell. <i>Applied Surface Science</i> , 2018, 437, 227-232.	3.1	25
28	Bifacial Modified Charge Transport Materials for Highly Efficient and Stable Inverted Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17861-17870.	4.0	29
29	Perovskite Solar Cells: All-Carbon-Electrode-Based Endurable Flexible Perovskite Solar Cells (Adv.) <i>Tj ETQq1 1 0.784314 ggBT /Over</i>	7.8	242
30	Perovskite/Poly[bis(4-phenyl)(2,4,6-trimethylphenyl)amine] Bulk Heterojunction for High-Efficient Carbon-Based Large-Area Solar Cells by Gradient Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42328-42334.	4.0	37
31	Highly efficient inverted perovskite solar cells based on self-assembled graphene derivatives. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20702-20711.	5.2	22
32	Realizing zinc-doping of CdS buffer layer via partial electrolyte treatment to improve the efficiency of Cu ₂ ZnSnS ₄ solar cells. <i>Chemical Engineering Journal</i> , 2018, 351, 791-798.	6.6	11
33	Inverted Perovskite Solar Cells with Efficient Mixed-Fullerene Derivative Charge Extraction Layers. <i>ChemistrySelect</i> , 2018, 3, 6802-6809.	0.7	13
34	Hybrid PbS Quantum-Dot-Incorporated Perovskite for High-Efficiency Perovskite Solar Cell. <i>Small</i> , 2018, 14, e18010165.2		111
35	The effect of applied voltages on the structure, apatite-inducing ability and antibacterial ability of micro arc oxidation coating formed on titanium surface. <i>Bioactive Materials</i> , 2018, 3, 426-433.	8.6	40
36	Laser-Induced Flash-Evaporation Printing CH ₃ NH ₃ PbI ₃ Thin Films for High-Performance Planar Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26206-26212.	4.0	10

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37	Role of alkyl chain length in diaminoalkane linked 2D Ruddlesden-Popper halide perovskites. <i>CrystEngComm</i> , 2018, 20, 6704-6712.	1.3	25
38	Efficiently Improving the Stability of Inverted Perovskite Solar Cells by Employing Polyethylenimine-Modified Carbon Nanotubes as Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31384-31393.	4.0	68
39	Microarc oxidation coating covered Ti implants with micro-scale gouges formed by a multi-step treatment for improving osseointegration. <i>Materials Science and Engineering C</i> , 2017, 76, 908-917.	3.8	24
40	High Efficiency Inverted Planar Perovskite Solar Cells with Solution-Processed NiO Hole Contact. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2439-2448.	4.0	139
41	Carbon Nanotube Based Inverted Flexible Perovskite Solar Cells with All-Inorganic Charge Contacts. <i>Advanced Functional Materials</i> , 2017, 27, 1703068.	7.8	132
42	Enhancing the Performance of Perovskite Solar Cells by Hybridizing SnS Quantum Dots with CH ₃ NH ₃ PbI ₃ . <i>Small</i> , 2017, 13, 1700953.	5.2	73
43	A space-time multi-input-multi-output system framework for touchable communication. , 2017, , .		0
44	Simulation framework for touchable communication on NS3Sim. , 2017, , .		1
45	Concurrent Covalent and Supramolecular Polymerization. <i>Chemistry - A European Journal</i> , 2016, 22, 12301-12306.	1.7	16
46	Synergistic effects of elastic modulus and surface topology of Ti-based implants on early osseointegration. <i>RSC Advances</i> , 2016, 6, 43685-43696.	1.7	20
47	Liquid-Phase Beam Pen Lithography. <i>Small</i> , 2016, 12, 988-993.	5.2	15
48	Supramolecular Gelation of Rigid Triangular Macrocycles through Rings of Multiple C-H...O Interactions Acting Cooperatively. <i>Journal of Organic Chemistry</i> , 2016, 81, 2581-2588.	1.7	27
49	Biodegradable DNA-Brush Block Copolymer Spherical Nucleic Acids Enable Transfection Agent-Free Intracellular Gene Regulation. <i>Small</i> , 2015, 11, 5360-5368.	5.2	64
50	On-Tip Photo-Modulated Molecular Printing. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12894-12899.	7.2	20
51	Strong Coupling between Plasmonic Gap Modes and Photonic Lattice Modes in DNA-Assembled Gold Nanocube Arrays. <i>Nano Letters</i> , 2015, 15, 4699-4703.	4.5	128
52	Apertureless Cantilever-Free Pen Arrays for Scanning Photochemical Printing. <i>Small</i> , 2015, 11, 913-918.	5.2	39
53	Synthesis of ZnO-CuO porous core-shell spheres and their application for non-enzymatic glucose sensor. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 989-996.	1.1	37
54	The effect of NaOH concentration on the steam-hydrothermally treated bioactive microarc oxidation coatings containing Ca, P, Si and Na on pure Ti surface. <i>Materials Science and Engineering C</i> , 2015, 49, 669-680.	3.8	17

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55	Titania nanotube/nano-brushite composited bioactive coating with micro/nanotopography on titanium formed by anodic oxidation and hydrothermal treatment. <i>Ceramics International</i> , 2015, 41, 13115-13125.	2.3	12
56	Synergistic Effects of Surface Chemistry and Topologic Structure from Modified Microarc Oxidation Coatings on Ti Implants for Improving Osseointegration. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8932-8941.	4.0	74
57	p15RS/RPRD1A (p15INK4b-related Sequence/Regulation of Nuclear Pre-mRNA Domain-containing Protein) Tj ETQq1 1 0.784314 rgBT Chemistry, 2015, 290, 9701-9713.	1.6	34
58	H ₂ Ti ₅ O ₁₁ ·H ₂ O nanorod arrays formed on a Ti surface via a hybrid technique of microarc oxidation and chemical treatment. <i>CrystEngComm</i> , 2015, 17, 2705-2717.	1.3	9
59	Conformal coating containing Ca, P, Si and Na with double-level porous surface structure on titanium formed by a three-step microarc oxidation. <i>RSC Advances</i> , 2015, 5, 28908-28920.	1.7	16
60	ICONE23-1538 CREEP-FATIGUE DAMAGE EVALUATION OF NI-BASED SUPERALLOY INCONEL 617 BASED ON FINITE ELEMENT ANALYSIS. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2015, 2015.23, _ICONE23-1-_ICONE23-1.	0.0	1
61	Hydrothermal synthesis of a novel BiErWO ₆ photocatalyst with wide spectral responsive property. <i>Applied Surface Science</i> , 2014, 319, 250-255.	3.1	12
62	Shape-Selective Deposition and Assembly of Anisotropic Nanoparticles. <i>Nano Letters</i> , 2014, 14, 2157-2161.	4.5	101
63	MC3T3-E1 cell response of amorphous phase/TiO ₂ nanocrystal composite coating prepared by microarc oxidation on titanium. <i>Materials Science and Engineering C</i> , 2014, 39, 186-195.	3.8	23
64	Synthesis and characterization of ferroelectric SrBi ₂ Ta ₂ O ₉ nanotubes arrays. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 52, 120-123.	1.1	15
65	Characterization of In-Use Light-Duty Gasoline Vehicle Emissions by Remote Sensing in Beijing: Impact of Recent Control Measures. <i>Journal of the Air and Waste Management Association</i> , 2007, 57, 1071-1077.	0.9	15
66	Effect of Polycarbosilane Content on Microstructures and Mechanical Properties of Short-Carbon-Fibre-Reinforced SiC Composites. <i>Advanced Composites Letters</i> , 2006, 15, 096369350601500.	1.3	0
67	Preparation and properties of SrBi _{2.2} Ta ₂ O ₉ thin film. <i>Central South University</i> , 2005, 12, 376-379.	0.5	1