Zikang Tang

List of Publications by Year
in descending order

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80	4,175	201674	114465
papers	citations	27 h-index	63 g-index

83	83	83	4312
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Room-temperature ultraviolet laser emission from self-assembled ZnO microcrystallite thin films. Applied Physics Letters, 1998, 72, 3270-3272.	3.3	1,775
2	Timeâ€Dependent Phosphorescence Colors from Carbon Dots for Advanced Dynamic Information Encryption. Advanced Materials, 2021, 33, e2006781.	21.0	241
3	Capacitive Pressure Sensor with High Sensitivity and Fast Response to Dynamic Interaction Based on Graphene and Porous Nylon Networks. ACS Applied Materials & Interfaces, 2018, 10, 12816-12823.	8.0	236
4	Ultrathin, Lightweight, and Flexible CNT Buckypaper Enhanced Using MXenes for Electromagnetic Interference Shielding. Nano-Micro Letters, 2021, 13, 66.	27.0	108
5	Structural Engineering for High Sensitivity, Ultrathin Pressure Sensors Based on Wrinkled Graphene and Anodic Aluminum Oxide Membrane. ACS Applied Materials & Interfaces, 2017, 9, 24111-24117.	8.0	97
6	Highly Sensitive Capacitive Pressure Sensor Based on a Micropyramid Array for Health and Motion Monitoring. Advanced Electronic Materials, 2021, 7, 2100174.	5.1	89
7	Propylammonium Chloride Additive for Efficient and Stable FAPbI₃ Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, 2102538.	19.5	84
8	Thermally Activated Upconversion Nearâ€Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation. Small, 2019, 15, e1905050.	10.0	70
9	Polyoxometalateâ€Derived Hexagonal Molybdenum Nitrides (MXenes) Supported by Boron, Nitrogen Codoped Carbon Nanotubes for Efficient Electrochemical Hydrogen Evolution from Seawater. Advanced Functional Materials, 2019, 29, 1805893.	14.9	69
10	Direct Patterning of Carbon Nanotube via Stamp Contact Printing Process for Stretchable and Sensitive Sensing Devices. Nano-Micro Letters, 2019, 11, 92.	27.0	56
11	Tunable Chiroptical Properties from the Plasmonic Band to Metalâ€“Ligand Charge Transfer Band of Cysteineâ€Capped Molybdenum Oxide Nanoparticles. Angewandte Chemie - International Edition, 2018, 57, 10236-10240.	13.8	53
12	Highly Sensitive, Flexible MEMS Based Pressure Sensor with Photoresist Insulation Layer. Small, 2017, 13, 1702422.	10.0	50
13	Side-Chain Engineering of Donorâ€“Acceptor Conjugated Small Molecules As Dopant-Free Hole-Transport Materials for Efficient Normal Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 48556-48563.	8.0	49
14	An asymmetric supercapacitor with excellent cycling performance realized by hierarchical porous NiGa₂O₄ nanosheets. Journal of Materials Chemistry A, 2017, 5, 19046-19053.	10.3	48
15	Toward Strong Nearâ€Infrared Absorption/Emission from Carbon Dots in Aqueous Media through Solvothermal Fusion of Large Conjugated Perylene Derivatives with Postâ€Surface Engineering. Advanced Science, 2022, 9, .	11.2	48
16	One step synthesis of efficient red emissive carbon dots and their bovine serum albumin composites with enhanced multi-photon fluorescence for in vivo bioimaging. Light: Science and Applications, 2022, 11, 113.	16.6	46
17	Berylliumâ€Assisted pâ€Type Doping for ZnO Homojunction Lightâ€Emitting Devices. Advanced Functional Materials, 2016, 26, 3696-3702.	14.9	42
18	Ultraâ€strong phosphorescence with 48% quantum yield from grinding treated thermal annealed carbon dots and boric acid composite. SmartMat, 2022, 3, 260-268.	10.7	42

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19	Chiral Transition Metal Oxides: Synthesis, Chiral Origins, and Perspectives. Advanced Materials, 2020, 32, e1905585.	21.0	40
20	Advances of Nonlinear Photonics in Lowâ€Dimensional Halide Perovskites. Small, 2021, 17, e2100809.	10.0	39
21	Effective Surface Ligand-Concentration Tuning of Deep-Blue Luminescent FAPbBr₃ Nanoplatelets with Enhanced Stability and Charge Transport. ACS Applied Materials & Interfaces, 2020, 12, 31863-31874.	8.0	37
22	Morphology Control of Luminescent Carbon Nanomaterials: From Dots to Rolls and Belts. ACS Nano, 2021, 15, 1579-1586.	14.6	35
23	Pure Bromideâ€Based Perovskite Nanoplatelets for Blue Lightâ€Emitting Diodes. Small Methods, 2019, 3, 1900196.	8.6	34
24	Enhanced Near-Infrared Emission from Carbon Dots by Surface Deprotonation. Journal of Physical Chemistry Letters, 2021, 12, 604-611.	4.6	34
25	Proton Conducting Polyoxometalate/Polypyrrole Films and Their Humidity Sensing Performance. ACS Applied Nano Materials, 2018, 1, 564-571.	5.0	32
26	Stable Whispering Gallery Mode Lasing from Solutionâ€Processed Formamidinium Lead Bromide Perovskite Microdisks. Advanced Optical Materials, 2020, 8, 2000030.	7.3	32
27	Dynamic Reversible Evolution of Solid Electrolyte Interface in Nonflammable Triethyl Phosphate Electrolyte Enabling Safe and Stable Potassiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	14.9	32
28	Tuning colour centres at a twisted hexagonal boron nitride interface. Nature Materials, 2022, 21, 896-902.	27.5	31
29	Synergistic Effects of Wrinkled Graphene and Plasmonics in Stretchable Hybrid Platform for Surfaceâ€Enhanced Raman Spectroscopy. Advanced Optical Materials, 2017, 5, 1600715.	7.3	28
30	Electrocatalytic Hydrogen Production: Polyoxometalateâ€Derived Hexagonal Molybdenum Nitrides (MXenes) Supported by Boron, Nitrogen Codoped Carbon Nanotubes for Efficient Electrochemical Hydrogen Evolution from Seawater (Adv. Funct. Mater. 8/2019). Advanced Functional Materials, 2019, 29, 1970046.	14.9	28
31	Generating longâ€wavelength absorption bands with enhanced deep red fluorescence and photothermal performance in fused carbon dots aggregates. Aggregate, 2021, 2, e139.	9.9	28
32	Fabrication of MoO_x/Mo₂C-Layered Hybrid Structures by Direct Thermal Oxidation of Mo₂C. ACS Applied Materials & Interfaces, 2020, 12, 10755-10762.	8.0	27
33	Synergistically boosting the elementary reactions over multiheterogeneous ordered macroporous Mo₂C/NCâ€Ru for highly efficient alkaline hydrogen evolution. , 2022, 4, 856-866.		27
34	Electrically Driven Single Microwire-Based Heterojuction Light-Emitting Devices. ACS Photonics, 2017, 4, 1286-1291.	6.6	26
35	Suppressing Strong Excitonâ€“Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. Angewandte Chemie - International Edition, 2020, 59, 22156-22162.	13.8	24
36	Metal Halide Perovskite/2D Material Heterostructures: Syntheses and Applications. Small Methods, 2021, 5, e2000937.	8.6	24

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37	H-stabilized shallow acceptors in N-doped ZnO. Physical Review B, 2015, 92, .	3.2	23
38	Back-to-back symmetric Schottky type UVA photodetector based on ternary alloy BeZnO. Journal of Materials Chemistry C, 2018, 6, 7776-7782.	5.5	21
39	High-temperature magnetism and crystallography of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>YCrO</mml:mi><mml:mn>3</mml:mn></mml:msub></ single crystal. Physical Review B, 2020, 101, .	3.2	19
40	Stable UV-Pumped White Light-Emitting Diodes Based on Anthracene-Coated CsCu₂I₃. Journal of Physical Chemistry C, 2021, 125, 13076-13083.	3.1	19
41	Biomimetic Carbon Nanotube Films with Gradient Structure and Locally Tunable Mechanical Property. Advanced Functional Materials, 2015, 25, 7173-7179.	14.9	18
42	Direct stamping multifunctional tactile sensor for pressure and temperature sensing. Nano Research, 2022, 15, 3614-3620.	10.4	17
43	Enhanced magnetocaloric effect and magnetic phase diagrams of single-crystal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>GdCrO</mml:mi><mml:mn>3</mml:mn></mml:msub> Physical Review B, 2020, 102, .	3.2	16
44	Aluminum-Based Surface Polymerization on Carbon Dots with Aggregation-Enhanced Luminescence. Journal of Physical Chemistry Letters, 2021, 12, 4530-4536.	4.6	16
45	Bridging the Interfacial Contact for Improved Stability and Efficiency of Inverted Perovskite Solar Cells. Small, 2022, 18, e2201694.	10.0	16
46	Tunable Chiroptical Properties from the Plasmonic Band to Metalâ€“Ligand Charge Transfer Band of Cysteineâ€Capped Molybdenum Oxide Nanoparticles. Angewandte Chemie, 2018, 130, 10393-10397.	2.0	15
47	Dialkylamines Driven Two-Step Recovery of NiO_x/ITO Substrates for High-Reproducibility Recycling of Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2021, 12, 4735-4741.	4.6	15
48	Emissionâ€Colorâ€Tunable Pbâ^'Sn Alloyed Single Crystals with High Luminescent Efficiency and Stability. Advanced Optical Materials, 2022, 10, .	7.3	15
49	Light-induced phase transition and photochromism in all-inorganic two-dimensional Cs2PbI2Cl2 perovskite. Science China Materials, 2020, 63, 1510-1517.	6.3	14
50	Robust Ultralong Lead Halide Perovskite Microwire Lasers. ACS Applied Materials & Interfaces, 2021, 13, 38458-38466.	8.0	14
51	Hot electronâ€“hole plasma dynamics and amplified spontaneous emission in ZnTe nanowires. Nanoscale, 2017, 9, 15612-15621.	5.6	12
52	Lowâ€Threshold Whisperingâ€Gallery Mode Upconversion Lasing via Simultaneous Sixâ€Photon Absorption. Advanced Optical Materials, 2018, 6, 1800407.	7.3	12
53	Solutionâ€Processed Perovskite Microdisk for Coherent Light Emission. Advanced Optical Materials, 2019, 7, 1900678.	7.3	12
54	Circularly Polarized Light Source from Selfâ€Assembled Hybrid Nanoarchitecture. Advanced Optical Materials, 2022, 10, .	7.3	12

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55	Plasmon-induced hot electron transfer in AgNW@TiO2@AuNPs nanostructures. Scientific Reports, 2018, 8, 14136.	3.3	11
56	Super-Necking Crystal Growth and Structural and Magnetic Properties of SrTb₂O₄ Single Crystals. ACS Omega, 2020, 5, 16584-16594.	3.5	11
57	Ultrafast Dynamics of Photoexcited Hot Carrier Generation and Injection in AgNWs@TiO₂@GNS Nanostructures. Journal of Physical Chemistry C, 2018, 122, 14857-14864.	3.1	9
58	Resistance Switching and Failure Behavior of the MoO_x/Mo₂C Heterostructure. ACS Applied Materials & Interfaces, 2021, 13, 41857-41865.	8.0	9
59	Crystalline and magnetic structures, magnetization, heat capacity, and anisotropic magnetostriction effect in a yttrium-chromium oxide. Physical Review Materials, 2020, 4, .	2.4	9
60	Improved CsPbBr 3 visible light photodetectors via decoration of sputtered au nanoparticles with synergistic benefits. Nano Select, 0, , .	3.7	8
61	Enhancement of two-photon absorption photoresponse based on whispering gallery modes. Nanoscale, 2018, 10, 14047-14054.	5.6	7
62	Sprayâ€combustion synthesis of indium tin oxide nanopowder. Journal of the American Ceramic Society, 2019, 102, 42-47.	3.8	7
63	Facile synthesis of graphene nanoribbons from zeolite-templated ultra-small carbon nanotubes for lithium ion storage. Journal of Materials Chemistry A, 2018, 6, 21327-21334.	10.3	6
64	The internal dynamic modes of an antiskyrmion in ultrathin ferromagnetic nanodisks. AIP Advances, 2020, 10, .	1.3	6
65	Suppressing the defects in cesium-based perovskites via polymeric interlayer assisted crystallization control. Journal of Materials Chemistry A, 2021, 9, 26149-26158.	10.3	6
66	Distribution and self-assisted diffusion of Be and Mg impurities in ZnO. Physical Chemistry Chemical Physics, 2016, 18, 19631-19636.	2.8	5
67	Charge Carrier Dynamics and Broad Wavelength Tunable Amplified Spontaneous Emission in Zn_xCd_{1â€“x}Se Nanowires. Journal of Physical Chemistry Letters, 2019, 10, 7516-7522.	4.6	5
68	Molecular Engineering of Polymeric Hole-Transporting Materials for Efficient and Stable Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 3526-3534.	5.1	5
69	Five-photon absorption upconversion lasing from on-chip whispering gallery mode. Nanoscale, 2020, 12, 6130-6136.	5.6	4
70	Photoluminescence Enhancement Effect of the Layered MoS₂ Film Grown by CVD. Journal of Engineering (United States), 2017, 2017, 1-8.	1.0	3
71	Upconversion single-microbelt photodetector via two-photon absorption simultaneous. Journal Physics D: Applied Physics, 2018, 51, 19LT01.	2.8	3
72	Postannealed Structural Relaxation and Phase Evolution of Quaternary Alloy BeMgZnO. ACS Applied Electronic Materials, 2019, 1, 2061-2068.	4.3	3

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73	Postâ€Treatment Passivation by Quaternary Ammonium Chloride Zwitterion for Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	3
74	Thermal Evolution of One-Dimensional Iodine Chains. Journal of Physical Chemistry Letters, 2017, 8, 2463-2468.	4.6	2
75	Photoluminescence: Thermally Activated Upconversion Nearâ€Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation (Small 50/2019). Small, 2019, 15, 1970288.	10.0	2
76	Suppressing Strong Excitonâ€“Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. Angewandte Chemie, 2020, 132, 22340-22346.	2.0	2
77	Direct Measurement of Raman Scattering Tensor of Orientationâ€Fixed Single Iodine Molecules. Advanced Functional Materials, 2015, 25, 3934-3942.	14.9	1
78	Hybrid Materials: Synergistic Effects of Wrinkled Graphene and Plasmonics in Stretchable Hybrid Platform for Surfaceâ€Enhanced Raman Spectroscopy (Advanced Optical Materials 6/2017). Advanced Optical Materials, 2017, 5, .	7.3	1
79	Enhanced Secondâ€Harmonic Generation in a Single Microwire Based on Localized Surface Plasmon. Physica Status Solidi (B): Basic Research, 2019, 256, 1900075.	1.5	0
80	Special Issue on the 40th Anniversary of University of Macau. Small, 2021, 17, e2105656.	10.0	0