

Zikang Tang

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

4,175
citations

201674

27
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114465

63
g-index

83
all docs

83
docs citations

83
times ranked

4312
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct stamping multifunctional tactile sensor for pressure and temperature sensing. Nano Research, 2022, 15, 3614-3620.	10.4	17
2	Ultrastrong phosphorescence with 48% quantum yield from grinding treated thermal annealed carbon dots and boric acid composite. SmartMat, 2022, 3, 260-268.	10.7	42
3	Emission Color-Tunable Pb-Sn Alloyed Single Crystals with High Luminescent Efficiency and Stability. Advanced Optical Materials, 2022, 10, .	7.3	15
4	Post-Treatment Passivation by Quaternary Ammonium Chloride Zwitterion for Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	3
5	Dynamic Reversible Evolution of Solid Electrolyte Interface in Nonflammable Triethyl Phosphate Electrolyte Enabling Safe and Stable Potassium-Ion Batteries. Advanced Functional Materials, 2022, 32, .	14.9	32
6	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
7	Bridging the Interfacial Contact for Improved Stability and Efficiency of Inverted Perovskite Solar Cells. Small, 2022, 18, e2201694.	10.0	16
8	Synergistically boosting the elementary reactions over multiheterogeneous ordered macroporous Mo ₂ C/NC-Ru for highly efficient alkaline hydrogen evolution. , 2022, 4, 856-866.		27
9	Circularly Polarized Light Source from Self-Assembled Hybrid Nanoarchitecture. Advanced Optical Materials, 2022, 10, .	7.3	12
10	Toward Strong Near-Infrared Absorption/Emission from Carbon Dots in Aqueous Media through Solvothermal Fusion of Large Conjugated Perylene Derivatives with Post-Surface Engineering. Advanced Science, 2022, 9, .	11.2	48
11	Tuning colour centres at a twisted hexagonal boron nitride interface. Nature Materials, 2022, 21, 896-902.	27.5	31
12	Ultrathin, Lightweight, and Flexible CNT Buckypaper Enhanced Using MXenes for Electromagnetic Interference Shielding. Nano-Micro Letters, 2021, 13, 66.	27.0	108
13	Time-Dependent Phosphorescence Colors from Carbon Dots for Advanced Dynamic Information Encryption. Advanced Materials, 2021, 33, e2006781.	21.0	241
14	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
15	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
16	Highly Sensitive Capacitive Pressure Sensor Based on a Micropyramid Array for Health and Motion Monitoring. Advanced Electronic Materials, 2021, 7, 2100174.	5.1	89
17	Aluminum-Based Surface Polymerization on Carbon Dots with Aggregation-Enhanced Luminescence. Journal of Physical Chemistry Letters, 2021, 12, 4530-4536.	4.6	16
18	Advances of Nonlinear Photonics in Low-Dimensional Halide Perovskites. Small, 2021, 17, e2100809.	10.0	39

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19	Stable UV-Pumped White Light-Emitting Diodes Based on Anthracene-Coated CsCu ₂ I ₃ . Journal of Physical Chemistry C, 2021, 125, 13076-13083.	3.1	19
20	Robust Ultralong Lead Halide Perovskite Microwire Lasers. ACS Applied Materials & Interfaces, 2021, 13, 38458-38466.	8.0	14
21	Resistance Switching and Failure Behavior of the MoO _x /Mo ₂ C Heterostructure. ACS Applied Materials & Interfaces, 2021, 13, 41857-41865.	8.0	9
22	Metal Halide Perovskite/2D Material Heterostructures: Syntheses and Applications. Small Methods, 2021, 5, e2000937.	8.6	24
23	Enhanced Near-Infrared Emission from Carbon Dots by Surface Deprotonation. Journal of Physical Chemistry Letters, 2021, 12, 604-611.	4.6	34
24	Morphology Control of Luminescent Carbon Nanomaterials: From Dots to Rolls and Belts. ACS Nano, 2021, 15, 1579-1586.	14.6	35
25	Special Issue on the 40th Anniversary of University of Macau. Small, 2021, 17, e2105656.	10.0	0
26	Propylammonium Chloride Additive for Efficient and Stable FAPbI ₃ Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, 2102538.	19.5	84
27	Generating long-wavelength absorption bands with enhanced deep red fluorescence and photothermal performance in fused carbon dots aggregates. Aggregate, 2021, 2, e139.	9.9	28
28	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
29	Super-Necking Crystal Growth and Structural and Magnetic Properties of SrTb ₂ O ₄ Single Crystals. ACS Omega, 2020, 5, 16584-16594.	3.5	11
30	Chiral Transition Metal Oxides: Synthesis, Chiral Origins, and Perspectives. Advanced Materials, 2020, 32, e1905585.	21.0	40
31	Enhanced magnetocaloric effect and magnetic phase diagrams of single-crystal $GdCrO_3$. Physical Review B, 2020, 102, .	10.1	16
32	Suppressing Strong Exciton-Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. Angewandte Chemie, 2020, 132, 22340-22346.	2.0	2
33	The internal dynamic modes of an antiskyrmion in ultrathin ferromagnetic nanodisks. AIP Advances, 2020, 10, .	1.3	6
34	Suppressing Strong Exciton-Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. Angewandte Chemie - International Edition, 2020, 59, 22156-22162.	13.8	24
35	Stable Whispering Gallery Mode Lasing from Solution-Processed Formamidinium Lead Bromide Perovskite Microdisks. Advanced Optical Materials, 2020, 8, 2000030.	7.3	32
36	Effective Surface Ligand-Concentration Tuning of Deep-Blue Luminescent FAPbBr ₃ Nanoplatelets with Enhanced Stability and Charge Transport. ACS Applied Materials & Interfaces, 2020, 12, 31863-31874.	8.0	37

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37	Fabrication of MoO ₃ /Mo ₂ C-Layered Hybrid Structures by Direct Thermal Oxidation of Mo ₂ C. ACS Applied Materials & Interfaces, 2020, 12, 10755-10762.	8.0	27
38	High-temperature magnetism and crystallography of a single crystal. Physical Review B, 2020, 101, .	3.2	19
39	Five-photon absorption upconversion lasing from on-chip whispering gallery mode. Nanoscale, 2020, 12, 6130-6136.	5.6	4
40	Light-induced phase transition and photochromism in all-inorganic two-dimensional Cs ₂ PbI ₂ Cl ₂ perovskite. Science China Materials, 2020, 63, 1510-1517.	6.3	14
41	Crystalline and magnetic structures, magnetization, heat capacity, and anisotropic magnetostriction effect in a yttrium-chromium oxide. Physical Review Materials, 2020, 4, .	2.4	9
42	Polyoxometalate-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
43	Spray-combustion synthesis of indium tin oxide nanopowder. Journal of the American Ceramic Society, 2019, 102, 42-47.	3.8	7
44	Solution-Processed Perovskite Microdisk for Coherent Light Emission. Advanced Optical Materials, 2019, 7, 1900678.	7.3	12
45	Enhanced Second-Harmonic Generation in a Single Microwire Based on Localized Surface Plasmon. Physica Status Solidi (B): Basic Research, 2019, 256, 1900075.	1.5	0
46	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
47	Thermally Activated Upconversion Near-Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation. Small, 2019, 15, e1905050.	10.0	70
48	Postannealed Structural Relaxation and Phase Evolution of Quaternary Alloy BeMgZnO. ACS Applied Electronic Materials, 2019, 1, 2061-2068.	4.3	3
49	Pure Bromide-Based Perovskite Nanoplatelets for Blue Light-Emitting Diodes. Small Methods, 2019, 3, 1900196.	8.6	34
50	Electrocatalytic Hydrogen Production: Polyoxometalate-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
51	Charge Carrier Dynamics and Broad Wavelength Tunable Amplified Spontaneous Emission in ZnCdSe Nanowires. Journal of Physical Chemistry Letters, 2019, 10, 7516-7522.	4.6	5
52	Side-Chain Engineering of Donor-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
53	Photoluminescence: Thermally Activated Upconversion Near-Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation (Small 50/2019). Small, 2019, 15, 1970288.	10.0	2
54	Proton Conducting Polyoxometalate/Polypyrrole Films and Their Humidity Sensing Performance. ACS Applied Nano Materials, 2018, 1, 564-571.	5.0	32

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55	Upconversion single-microbelt photodetector via two-photon absorption simultaneous. Journal Physics D: Applied Physics, 2018, 51, 19LT01.	2.8	3
56	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
57	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
58	Plasmon-induced hot electron transfer in AgNW@TiO ₂ @AuNPs nanostructures. Scientific Reports, 2018, 8, 14136.	3.3	11
59	Enhancement of two-photon absorption photoresponse based on whispering gallery modes. Nanoscale, 2018, 10, 14047-14054.	5.6	7
60	Tunable Chiroptical Properties from the Plasmonic Band to Metal-Ligand Charge Transfer Band of Cysteine-Capped Molybdenum Oxide Nanoparticles. Angewandte Chemie - International Edition, 2018, 57, 10236-10240.	13.8	53
61	Low-Threshold Whispering Gallery Mode Upconversion Lasing via Simultaneous Six-Photon Absorption. Advanced Optical Materials, 2018, 6, 1800407.	7.3	12
62	Tunable Chiroptical Properties from the Plasmonic Band to Metal-Ligand Charge Transfer Band of Cysteine-Capped Molybdenum Oxide Nanoparticles. Angewandte Chemie, 2018, 130, 10393-10397.	2.0	15
63	Back-to-back symmetric Schottky type LIVA photodetector based on ternary alloy BeZnO. Journal of Materials Chemistry C, 2018, 6, 7776-7782.	5.5	21
64	Ultrafast Dynamics of Photoexcited Hot Carrier Generation and Injection in AgNWs@TiO ₂ @GNS Nanostructures. Journal of Physical Chemistry C, 2018, 122, 14857-14864.	3.1	9
65	Synergistic Effects of Wrinkled Graphene and Plasmonics in Stretchable Hybrid Platform for Surface-Enhanced Raman Spectroscopy. Advanced Optical Materials, 2017, 5, 1600715.	7.3	28
66	Electrically Driven Single Microwire-Based Heterojunction Light-Emitting Devices. ACS Photonics, 2017, 4, 1286-1291.	6.6	26
67	Thermal Evolution of One-Dimensional Iodine Chains. Journal of Physical Chemistry Letters, 2017, 8, 2463-2468.	4.6	2
68	Hybrid Materials: Synergistic Effects of Wrinkled Graphene and Plasmonics in Stretchable Hybrid Platform for Surface-Enhanced Raman Spectroscopy (Advanced Optical Materials 6/2017). Advanced Optical Materials, 2017, 5, .	7.3	1
69	Hot electron-hole plasma dynamics and amplified spontaneous emission in ZnTe nanowires. Nanoscale, 2017, 9, 15612-15621.	5.6	12
70	Highly Sensitive, Flexible MEMS Based Pressure Sensor with Photoresist Insulation Layer. Small, 2017, 13, 1702422.	10.0	50
71	An asymmetric supercapacitor with excellent cycling performance realized by hierarchical porous NiGa ₂ O ₄ nanosheets. Journal of Materials Chemistry A, 2017, 5, 19046-19053.	10.3	48
72	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

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73	Photoluminescence Enhancement Effect of the Layered MoS ₂ Film Grown by CVD. Journal of Engineering (United States), 2017, 2017, 1-8.	1.0	3
74	Beryllium-Assisted p-Type Doping for ZnO Homojunction Light-Emitting Devices. Advanced Functional Materials, 2016, 26, 3696-3702.	14.9	42
75	Distribution and self-assisted diffusion of Be and Mg impurities in ZnO. Physical Chemistry Chemical Physics, 2016, 18, 19631-19636.	2.8	5
76	H-stabilized shallow acceptors in N-doped ZnO. Physical Review B, 2015, 92, .	3.2	23
77	Biomimetic Carbon Nanotube Films with Gradient Structure and Locally Tunable Mechanical Property. Advanced Functional Materials, 2015, 25, 7173-7179.	14.9	18
78	Direct Measurement of Raman Scattering Tensor of Orientation-Fixed Single Iodine Molecules. Advanced Functional Materials, 2015, 25, 3934-3942.	14.9	1
79	Room-temperature ultraviolet laser emission from self-assembled ZnO microcrystallite thin films. Applied Physics Letters, 1998, 72, 3270-3272.	3.3	1,775
80	Improved CsPbBr ₃ visible light photodetectors via decoration of sputtered Au nanoparticles with synergistic benefits. Nano Select, 0, , .	3.7	8