

Zhixing Gan

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111
papers

2,618
citations

26
h-index

47
g-index

119
ext. papers

3,269
ext. citations

5.7
avg. IF

5.56
L-index

#	Paper	IF	Citations
111	Mechanism for excitation-dependent photoluminescence from graphene quantum dots and other graphene oxide derivatives: consensus, debates and challenges. <i>Nanoscale</i> , 2016 , 8, 7794-807	7.7	290
110	Photothermal contribution to enhanced photocatalytic performance of graphene-based nanocomposites. <i>ACS Nano</i> , 2014 , 8, 9304-10	16.7	181
109	Quantum confinement effects across two-dimensional planes in MoS ₂ quantum dots. <i>Applied Physics Letters</i> , 2015 , 106, 233113	3.4	136
108	Mechanism of Photoluminescence from Chemically Derived Graphene Oxide: Role of Chemical Reduction. <i>Advanced Optical Materials</i> , 2013 , 1, 926-932	8.1	133
107	Is There Real Upconversion Photoluminescence from Graphene Quantum Dots?. <i>Advanced Optical Materials</i> , 2013 , 1, 554-558	8.1	112
106	Solar steam generation based on the photothermal effect: from designs to applications, and beyond. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19203-19227	13	106
105	Mn ²⁺ -bonded reduced graphene oxide with strong radiative recombination in broad visible range caused by resonant energy transfer. <i>Nano Letters</i> , 2011 , 11, 3951-6	11.5	77
104	Light-induced ferroelectricity in bioinspired self-assembled diphenylalanine nanotubes/microtubes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2055-9	16.4	70
103	The Dominant Energy Transport Pathway in Halide Perovskites: Photon Recycling or Carrier Diffusion?. <i>Advanced Energy Materials</i> , 2019 , 9, 1900185	21.8	61
102	Amorphous nickel/cobalt tungsten sulfide electrocatalysts for high-efficiency hydrogen evolution reaction. <i>Applied Surface Science</i> , 2015 , 341, 149-156	6.7	61
101	Poly(ethylene glycol)/carbon quantum dot composite solid films exhibiting intense and tunable blue/red emission. <i>Applied Surface Science</i> , 2014 , 311, 490-497	6.7	55
100	Template-Free Synthesis of High-Yield Fe-Doped Cesium Lead Halide Perovskite Ultralong Microwires with Enhanced Two-Photon Absorption. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4878-4885	6.4	51
99	The origins of the broadband photoluminescence from carbon nitrides and applications to white light emitting. <i>Nano Research</i> , 2016 , 9, 1801-1812	10	48
98	Low-Cost, Scalable, and Reusable Photothermal Layers for Highly Efficient Solar Steam Generation and Versatile Energy Conversion. <i>Advanced Sustainable Systems</i> , 2020 , 4, 1900153	5.9	46
97	The mechanism of blue photoluminescence from carbon nanodots. <i>CrystEngComm</i> , 2014 , 16, 4981-4986	3.3	45
96	Emission from Trions in Carbon Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2956-2962	3.8	43
95	Porous reduced graphene oxide/nickel foam for highly efficient solar steam generation. <i>Nanotechnology</i> , 2019 , 30, 425403	3.4	42

94	Cubic In ₂ O ₃ Microparticles for Efficient Photoelectrochemical Oxygen Evolution. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 4298-304	6.4	41
93	Photon Reabsorption and Nonradiative Energy-Transfer-Induced Quenching of Blue Photoluminescence from Aggregated Graphene Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 29432-29438	3.8	39
92	Photoluminescence of MoS ₂ quantum dots quenched by hydrogen peroxide: A fluorescent sensor for hydrogen peroxide. <i>Journal of Applied Physics</i> , 2016 , 120, 104503	2.5	39
91	Copper nanoparticles with near-unity, omnidirectional, and broadband optical absorption for highly efficient solar steam generation. <i>Nanotechnology</i> , 2019 , 30, 015402	3.4	39
90	The dissolution behaviour and thermodynamic properties calculation of praziquantel in pure and mixed organic solvents. <i>Journal of Chemical Thermodynamics</i> , 2020 , 144, 106062	2.9	35
89	Transient Energy Reservoir in 2D Perovskites. <i>Advanced Optical Materials</i> , 2019 , 7, 1900971	8.1	33
88	Reusable Self-Sterilization Masks Based on Electrothermal Graphene Filters. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56579-56586	9.5	33
87	Tunable photoluminescence from sheet-like black phosphorus crystal by electrochemical oxidation. <i>Applied Physics Letters</i> , 2015 , 107, 021901	3.4	28
86	The optical properties of CsPbBr ₃ -CsPbBr ₃ perovskite composites. <i>Nanoscale</i> , 2019 , 11, 14676-14683	7.7	26
85	Unidirectionally aligned diphenylalanine nanotube/microtube arrays with excellent supercapacitive performance. <i>Nano Research</i> , 2014 , 7, 929-937	10	26
84	In situ thermal imaging and absolute temperature monitoring by luminescent diphenylalanine nanotubes. <i>Biomacromolecules</i> , 2013 , 14, 2112-6	6.9	26
83	External stokes shift of perovskite nanocrystals enlarged by photon recycling. <i>Applied Physics Letters</i> , 2019 , 114, 011906	3.4	26
82	Resilient Graphene Ultrathin Flat Lens in Aerospace, Chemical, and Biological Harsh Environments. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20298-20303	9.5	25
81	Photophysics of 2D Organic-Inorganic Hybrid Lead Halide Perovskites: Progress, Debates, and Challenges. <i>Advanced Science</i> , 2021 , 8, 2001843	13.6	24
80	Low-cost carbonized kelp for highly efficient solar steam generation. <i>AIP Advances</i> , 2019 , 9, 055110	1.5	23
79	Illumination-Induced Halide Segregation in Gradient Bandgap Mixed-Halide Perovskite Nanoplatelets. <i>Advanced Optical Materials</i> , 2018 , 6, 1801107	8.1	23
78	Spatially Modulating the Fluorescence Color of Mixed-Halide Perovskite Nanoplatelets through Direct Femtosecond Laser Writing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26017-26023	9.5	22
77	Manipulation of anisotropic magnetoresistance and domain configuration in Co/PMN-PT (011) multiferroic heterostructures by electric field. <i>Applied Physics Letters</i> , 2017 , 111, 052401	3.4	22

76	Long-Distance Ionic Diffusion in Cesium Lead Mixed Halide Perovskite Induced by Focused Illumination. <i>Chemistry of Materials</i> , 2019 , 31, 9049-9056	9.6	20
75	Ultra-high quantum efficiency photodetector and ultrafast reversible surface wettability transition of square In ₂ O ₃ nanowires. <i>Nano Research</i> , 2017 , 10, 2772-2781	10	19
74	Photoluminescence of Diphenylalanine Peptide Nano/Microstructures: From Mechanisms to Applications. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700370	4.8	19
73	Highly Efficient Solar-Driven Photothermal Performance in Au-Carbon Core-Shell Nanospheres. <i>Solar Rrl</i> , 2017 , 1, 1600032	7.1	17
72	Encapsulation of colloid perovskite nanocrystals into solid polymer matrices: Impact on electronic transition and photoluminescence. <i>Journal of Luminescence</i> , 2020 , 219, 116938	3.8	16
71	A metal-free 3C-SiC/g-C ₃ N ₄ composite with enhanced visible light photocatalytic activity. <i>RSC Advances</i> , 2017 , 7, 40028-40033	3.7	15
70	Hydration of mixed halide perovskites investigated by Fourier transform infrared spectroscopy. <i>APL Materials</i> , 2019 , 7, 031107	5.7	14
69	Determining In-Plane Carrier Diffusion in Two-Dimensional Perovskite Using Local Time-Resolved Photoluminescence. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26384-26390	9.5	14
68	Bright, stable, and tunable solid-state luminescence of carbon nanodot organogels. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 18089-18096	3.6	14
67	Temperature-Dependent Dual Emission from Sucrose-Derived Carbon Nanodots: A Ratiometric Fluorescent Thermometer. <i>ChemNanoMat</i> , 2016 , 2, 171-175	3.5	14
66	Photoluminescence and optical temperature sensing in Sm ³⁺ -doped Ba _{0.85} Ca _{0.15} Ti _{0.90} Zr _{0.10} O ₃ lead-free ceramics. <i>Ceramics International</i> , 2019 , 45, 588-594	5.1	14
65	Bioinspired Tunable Structural Color Film with Janus Wettability and Interfacial Floatability towards Visible Water Quality Monitoring. <i>Advanced Functional Materials</i> , 2021 , 31, 2010406	15.6	14
64	Tunable high reflective bands to improve quantum dot white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1149-1154	7.1	13
63	Direct-Indirect Transition of Pressurized Two-Dimensional Halide Perovskite: Role of Benzene Ring Stack Ordering. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5687-5693	6.4	12
62	Thermoplastic Polyurethane Nanofiber Membrane Based Air Filters for Efficient Removal of Ultrafine Particulate Matter PM _{0.1} . <i>ACS Applied Nano Materials</i> , 2021 , 4, 182-189	5.6	12
61	Bioinspired diphenylalanine with aggregation-induced emission in deep ultraviolet range. <i>New Journal of Chemistry</i> , 2016 , 40, 1970-1973	3.6	11
60	3C-SiC nanocrystals/TiO ₂ nanotube heterostructures with enhanced photocatalytic performance. <i>Applied Physics Letters</i> , 2014 , 104, 231902	3.4	10
59	Concentrated Acid-Induced Dehydration of Fallen Leaves for Efficient, Sustainable, and Self-Cleaning Solar Steam Generation. <i>Advanced Energy and Sustainability Research</i> , 2020 , 1, 2000034	1.6	10

58	Fluorescence enhancement of perovskite nanocrystals using photonic crystals. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 908-915	7.1	10
57	Ultraviolet Photoluminescence of Carbon Nanospheres and its Surface Plasmon-Induced Enhancement. <i>Small</i> , 2018 , 14, e1704239	11	9
56	Magnetic field enhanced photothermal effect of Fe ₃ O ₄ nanoparticles. <i>Journal of Applied Physics</i> , 2018 , 123, 115115	2.5	9
55	Electron transition pathways of photoluminescence from 3C-SiC nanocrystals unraveled by steady-state, blinking and time-resolved photoluminescence measurements. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 275107	3	9
54	Carbon nanodots-based nanocomposites with enhanced photocatalytic performance and photothermal effects. <i>Applied Physics Letters</i> , 2017 , 111, 013904	3.4	9
53	Boosted photoelectrochemical performance of In ₂ O ₃ nanowires via modulating oxygen vacancies on crystal facets. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 156311	5.7	9
52	Revealing Dynamic Effects of Mobile Ions in Halide Perovskite Solar Cells Using Time-Resolved Microspectroscopy.. <i>Small Methods</i> , 2021 , 5, e2000731	12.8	9
51	Synthesis and photocatalytic performance of MoS ₂ /Polycrystalline black phosphorus heterojunction composite. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 3530-3538	6.7	9
50	Improved power conversion efficiency in radial junction thin film solar cells based on amorphous silicon germanium alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 803, 260-264	5.7	8
49	Upconversion photoluminescence modulation by electric field poling in Er ³⁺ doped (Ba _{0.85} Ca _{0.15})(Zr _{0.1} Ti _{0.9})O ₃ piezoelectric ceramics. <i>Journal of Alloys and Compounds</i> , 2019 , 794, 325-332	5.7	8
48	Fluorescent variations during the phase conversion of CsPbBr ₃ compounds. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154731	5.7	8
47	Hydrogenated TiO nanotube photonic crystals for enhanced photoelectrochemical water splitting. <i>Nanotechnology</i> , 2018 , 29, 155401	3.4	8
46	Investigation of energy transfer mechanisms in rare-earth doped amorphous silica films embedded with tin oxide nanocrystals. <i>Optics Express</i> , 2019 , 27, 2783-2791	3.3	8
45	Efficient Energy Funnelling by Engineering the Bandgap of a Perovskite: Förster Resonance Energy Transfer or Charge Transfer?. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5963-5971	6.4	7
44	Efficient hydrogen evolution catalyzed by amorphous molybdenum sulfide/N-doped active carbon hybrid on carbon fiber paper. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 15135-15143	6.7	7
43	Electron transfer from organic dyes to reduced graphene oxide studied by photoluminescence spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 1138-1143	1.3	7
42	Gold Promotion of MCM-41 Supported Ruthenium Catalysts for Selective Hydrogenation of α -Unsaturated Aldehydes and Ketones. <i>Catalysis Letters</i> , 2018 , 148, 267-276	2.8	7
41	Hierarchical self-assembly of black phosphorus quantum dots with quantum confinement effects to a centimeter-scale membrane. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700011	1.3	6

40	3C-SiC/ZnS heterostructured nanospheres with high photocatalytic activity and enhancement mechanism. <i>AIP Advances</i> , 2015 , 5, 037120	1.5	6
39	Light-Induced Ferroelectricity in Bioinspired Self-Assembled Diphenylalanine Nanotubes/Microtubes. <i>Angewandte Chemie</i> , 2013 , 125, 2109-2113	3.6	6
38	Bioinspired Free-Standing One-Dimensional Photonic Crystals with Janus Wettability for Water Quality Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40979-40984	9.5	6
37	Layer number dependent exciton dissociation and carrier recombination in 2D Ruddlesden-Popper halide perovskites. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 8966-8974	7.1	6
36	Engineering the carrier dynamics of g-CN by rolling up planar sheets into nanotubes via ultrasonic cavitation. <i>Nanoscale</i> , 2018 , 10, 22448-22455	7.7	6
35	Large magnetocaloric and magnetoresistance effects in metamagnetic Sm _{0.55} (Sr _{0.5} Ca _{0.5}) _{0.45} MnO ₃ manganite. <i>Ceramics International</i> , 2017 , 43, 7870-7874	5.1	5
34	The luminescent carbon nanoparticles with controllable oxygen-related functional groups prepared by pulsed laser ablation in water. <i>Modern Physics Letters B</i> , 2016 , 30, 1650320	1.6	5
33	Modulating the fluorescent color of carbon nanodots via photon reabsorption and carbonization degree. <i>Applied Physics Letters</i> , 2017 , 111, 241903	3.4	5
32	Microsteganography on all inorganic perovskite micro-platelets by direct laser writing. <i>Nanoscale</i> , 2021 , 13, 14450-14459	7.7	5
31	The roles of self-absorption and radiative energy transfer in photoluminescence of N-doped carbon nanodots in solution. <i>AIP Advances</i> , 2019 , 9, 035135	1.5	4
30	Photoluminescent Spectral Broadening of Lead Halide Perovskite Nanocrystals Investigated by Emission Wavelength Dependent Lifetime. <i>Molecules</i> , 2020 , 25,	4.8	4
29	Bimetallic AgRu/Al ₂ O ₃ nanoparticles for selective hydrogenation of cinnamaldehyde to hydrocinnamaldehyde. <i>Micro and Nano Letters</i> , 2018 , 13, 243-247	0.9	4
28	Dynamics of anion exchange in cesium lead halide (CsPbX ₃) perovskite nanocrystals. <i>New Journal of Chemistry</i> , 2020 , 44, 20592-20599	3.6	4
27	Highly Efficient Charge Transfer between Perovskite Nanocrystals and g-C ₃ N ₄ Nanosheets. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000198	1.3	4
26	Power-Free and Self-Cleaning Solar Light Detector Based on the Temperature-Sensitive Structural Color and Photothermal Effect. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33566-33573	9.5	4
25	Stable and multicolor solid-state luminescence of Mn doped CsPb(Cl/Br) ₃ perovskite quantum dots and its application in light-emitting diodes. <i>Journal of Luminescence</i> , 2022 , 243, 118622	3.8	3
24	Fluorescence enhancement of perovskite nanocrystals by flexible photonic crystals and its application in optical strain gauge. <i>Applied Physics Letters</i> , 2021 , 119, 033302	3.4	3
23	Visualization of deep ultraviolet photons based on Förster resonance energy transfer and cascade photon reabsorption in diphenylalanine-carbon nitrides composite film. <i>Applied Physics Letters</i> , 2016 , 109, 191902	3.4	3

22	Fluorescent dynamics of CsPbBr nanocrystals in polar solvents: a potential sensor for polarity. <i>Nanotechnology</i> , 2021 , 32, 135701	3.4	3
21	Broadband photodetectors based on enhanced photothermal effect of polymer encapsulated graphene film. <i>Applied Surface Science Advances</i> , 2021 , 3, 100050	2.6	3
20	Black phosphorus-TiF ₃ photocatalyst for hydrogen production with an excellent capacity. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160775	5.7	3
19	Effects of Size and Distribution of Silver Nanoparticles on Directional Fluorescence Emission Enhancement. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-8	1.8	2
18	Manipulating the anomalous Josephson effect by interface valley-polarized mixing. <i>Europhysics Letters</i> , 2019 , 126, 67002	1.6	2
17	An emerging solar-thermal-electric conversion system based on highly-efficient photothermal nanoabsorber layer. <i>Materials Research Express</i> , 2019 , 6, 115531	1.7	2
16	Solar-Driven Airflow-Enhanced All-Daytime Solar Steam Generation Based on Inverse-Bowl-Shaped Graphene Aerogels. <i>Energy Technology</i> , 2100757	3.5	2
15	Relaxation of Excited Electrons on Carbon Nitrides Investigated by Electrochemiluminescence and Photoluminescence Spectra. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19314-19323	3.8	2
14	Synthesis of Ag/Co nanoparticles by dual pulsed laser ablation for synergistic photothermal study. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	2
13	Clean TiO ₂ nanocuboid film tightly attached on a conductive substrate for highly efficient photoelectrochemical water splitting. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 48LT01	3	1
12	Modulation of nonradiative processes of single colloidal quantum dots by glycerol passivation. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 435103	3	1
11	A self-floating and integrated bionic mushroom for highly efficient solar steam generation.. <i>Journal of Colloid and Interface Science</i> , 2021 , 612, 88-96	9.3	1
10	Active sites provided by the surface autocatalytic effect and quantum confinement for stable and efficient photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14768-14774	13	1
9	Increase of photoluminescence blinking frequency of 3CBiC nanocrystals with excitation power. <i>Chinese Physics B</i> , 2018 , 27, 127804	1.2	1
8	Highly-Efficient Solar Steam Generation with Real Time Salinity Monitoring for Seawater Desalination. <i>Advanced Sustainable Systems</i> , 2022 , 6, 2100430	5.9	1
7	Energy Funneling in Quasi-2D Ruddlesden-Popper Perovskites: Charge Transfer versus Resonant Energy Transfer. <i>Advanced Photonics Research</i> , 2100283	1.9	0
6	Construction of 2D-layered quantum dots/2D-nanosheets heterostructures with compact interfaces for highly efficient photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2022 , 608, 284-293	9.3	0
5	Re-absorption-free perovskite quantum dots for boosting the efficiency of luminescent solar concentrator. <i>Journal of Luminescence</i> , 2022 , 248, 118963	3.8	0

4	Enhanced and angle dependent blue fluorescence of perovskite nanocrystals on three typical photonic crystals. <i>Optik</i> , 2022 , 252, 168517	2.5
3	Observation of biexciton emission in graphitic-C3N4 nanotubes. <i>Journal of Luminescence</i> , 2021 , 238, 118310	3.8
2	Simultaneously Reconfigurable Multispectral Microscopic Imaging Based on a Digital Micromirror Device. <i>IEEE Photonics Technology Letters</i> , 2022 , 1-1	2.2
1	Ultrafast Charge Carrier Dynamics of CsPbBr ₃ /Cs ₄ PbBr ₆ Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 8777-8786	3.8