

Jiyang Fan

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78
papers

1,995
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19
h-index

43
g-index

85
ext. papers

2,187
ext. citations

4.8
avg. IF

4.9
L-index

#	Paper	IF	Citations
78	Low-dimensional SiC nanostructures: Fabrication, luminescence, and electrical properties. <i>Progress in Materials Science</i> , 2006 , 51, 983-1031	42.2	275
77	Experimental evidence for the quantum confinement effect in 3C-SiC nanocrystallites. <i>Physical Review Letters</i> , 2005 , 94, 026102	7.4	264
76	Group IV nanoparticles: synthesis, properties, and biological applications. <i>Small</i> , 2010 , 6, 2080-98	11	242
75	Synthesis and low-temperature photoluminescence properties of SnO ₂ nanowires and nanobelts. <i>Nanotechnology</i> , 2006 , 17, 1695-9	3.4	205
74	3C-SiC nanocrystals as fluorescent biological labels. <i>Small</i> , 2008 , 4, 1058-62	11	154
73	Luminescence from colloidal 3C-SiC nanocrystals in different solvents. <i>Applied Physics Letters</i> , 2006 , 88, 041909	3.4	73
72	Red shift in the photoluminescence of colloidal carbon quantum dots induced by photon reabsorption. <i>Applied Physics Letters</i> , 2014 , 104, 091902	3.4	66
71	Fabrication and photoluminescence of SiC quantum dots stemming from 3C, 6H, and 4H polytypes of bulk SiC. <i>Applied Physics Letters</i> , 2012 , 101, 131906	3.4	54
70	C8-structured carbon quantum dots: Synthesis, blue and green double luminescence, and origins of surface defects. <i>Carbon</i> , 2014 , 79, 165-173	10.4	53
69	Silicon Carbide Nanostructures. <i>Engineering Materials and Processes</i> , 2014 ,		35
68	Luminescent silicon carbide nanocrystallites in 3C-SiC/polystyrene films. <i>Applied Physics Letters</i> , 2005 , 86, 171903	3.4	34
67	Vacuum electron field emission from SnO ₂ nanowhiskers annealed in N ₂ and O ₂ atmospheres. <i>Applied Physics Letters</i> , 2006 , 88, 013109	3.4	29
66	Stability of luminescent 3C-SiC nanocrystallites in aqueous solution. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 360, 336-338	2.3	29
65	Identification of luminescent surface defect in SiC quantum dots. <i>Applied Physics Letters</i> , 2015 , 106, 053115	11.5	28
64	Multistage growth of monocrystalline ZnO nanowires and twin-nanorods: oriented attachment and role of the spontaneous polarization force. <i>CrystEngComm</i> , 2016 , 18, 6492-6501	3.3	27
63	Enhanced and tunable blue luminescence from CdS nanocrystal/polymer composites. <i>Scripta Materialia</i> , 2006 , 55, 1123-1126	5.6	23
62	Quasi-self-trapped Frenkel-exciton near-UV luminescence with large Stokes shift in wide-bandgap Cs ₄ PbCl ₆ nanocrystals. <i>Applied Physics Letters</i> , 2018 , 112, 183101	3.4	22

61	Experimental evidence of phase transformation in SiC quantum dots and their size-dependent luminescence. <i>Applied Physics Letters</i> , 2014 , 105, 193110	3.4	19
60	Microstructure and infrared spectral properties of porous polycrystalline and nanocrystalline cubic silicon carbide. <i>Applied Physics Letters</i> , 2009 , 95, 021906	3.4	19
59	Quantum confinement luminescence of trigonal cesium lead bromide quantum dots. <i>Applied Surface Science</i> , 2019 , 466, 119-125	6.7	18
58	Giant photoluminescence enhancement in SiC nanocrystals by resonant semiconductor exciton-metal surface plasmon coupling. <i>Nanotechnology</i> , 2013 , 24, 025201	3.4	17
57	Excitation and recombination photodynamics in colloidal cubic SiC nanocrystals. <i>Applied Physics Letters</i> , 2010 , 97, 191911	3.4	17
56	Highly bright tunable blue-violet photoluminescence in SiC nanocrystal-sodium dodecyl sulfonate crosslinked network. <i>Nanoscale</i> , 2012 , 4, 3044-6	7.7	16
55	UV-blue photoluminescence from close-packed SiC nanocrystal film. <i>Applied Physics Letters</i> , 2011 , 98, 081913	3.4	16
54	Critical Roles of High- and Low-Frequency Optical Phonons in Photodynamics of Zero-Dimensional Perovskite-like (CH ₃ NH ₃) ₂ SnCl ₂ Crystals. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7586-7593	6.4	16
53	Identification of the reconstruction and bonding structure of SiC nanocrystal surface by infrared spectroscopy. <i>Applied Surface Science</i> , 2011 , 258, 627-630	6.7	14
52	Luminescent amorphous alumina nanoparticles in toluene solution. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 9937-9942	1.8	13
51	Carrier accumulation enhanced Auger recombination and inner self-heating-induced spectrum fluctuation in CsPbBr ₃ perovskite nanocrystal light-emitting devices. <i>Applied Physics Letters</i> , 2019 , 115, 243503	3.4	12
50	In Situ Phase-Transition Crystallization of All-Inorganic Water-Resistant Exciton-Radiative Heteroepitaxial CsPbBr ₃ /CsPb ₂ Br ₅ Core/Shell Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2021 , 33, 4948-4959	9.6	11
49	Photon absorption and emission properties of 7 SiC nanoclusters: Electronic gap, surface state, and quantum size effect. <i>Applied Physics Letters</i> , 2016 , 109, 013104	3.4	11
48	Quantum confinement effect in 6H-SiC quantum dots observed via plasmon-exciton coupling-induced defect-luminescence quenching. <i>Applied Physics Letters</i> , 2017 , 110, 123104	3.4	10
47	Quantitative Modeling of Self-Assembly Growth of Luminescent Colloidal CH ₃ NH ₃ PbBr ₃ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	10
46	Optical spectroscopy reveals transition of CuInS ₂ /ZnS to Cu _x Zn _{1-x} InS ₂ /ZnS:Cu alloyed quantum dots with resultant double-defect luminescence. <i>APL Materials</i> , 2016 , 4, 126101	5.7	10
45	Analytical model of photon reabsorption in ZnO quantum dots with size and concentration dependent dual-color photoluminescence. <i>Journal of Applied Physics</i> , 2017 , 121, 054309	2.5	9
44	Hydrothermal synthesis of well crystallized C ₈ and diamond nanocrystals and pH-controlled C ₈ ↔ diamond phase transition. <i>CrystEngComm</i> , 2017 , 19, 1248-1252	3.3	9

43	Photoluminescence and light reabsorption in SiC quantum dots embedded in binary-polyelectrolyte solid matrix. <i>Journal of Applied Physics</i> , 2012 , 112, 094315	2.5	9
42	Universal role of oxygen in full-visible-region photoluminescence of diamond nanocrystals. <i>Carbon</i> , 2016 , 109, 40-48	10.4	9
41	Surface-enhanced Raman spectroscopy on transparent fume-etched ITO-glass surface. <i>Applied Surface Science</i> , 2014 , 309, 250-254	6.7	8
40	Interference effects on indium tin oxide enhanced Raman scattering. <i>Journal of Applied Physics</i> , 2012 , 111, 033110	2.5	8
39	Si-based solid blue emitters from 3C-SiC nanocrystals. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 82, 485-487	2.6	8
38	A study on transmitted intensity of disturbance for air-spaced Glan-type polarizing prisms. <i>Optics Communications</i> , 2003 , 223, 11-16	2	8
37	Cs/CsPbX ₃ (X = Br, Cl) epitaxial heteronanocrystals with magic-angle stable/metastable grain boundary. <i>Applied Physics Letters</i> , 2017 , 110, 193105	3.4	7
36	Interaction between indium tin oxide nanoparticles and cytochrome c: A surface-enhanced Raman scattering and absorption spectroscopic study. <i>Journal of Applied Physics</i> , 2015 , 117, 245307	2.5	7
35	Role of Polyhedron Unit in Distinct Photophysics of Zero-Dimensional Organic-Inorganic Hybrid Tin Halide Compounds. <i>Journal of Physical Chemistry Letters</i> , 2021 , 5765-5773	6.4	6
34	Quasi-White Light-Emitting Devices Based on SiC Quantum Dots. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800171	2.5	5
33	Synthesis and photoluminescence of semiconductor quantum dots/cetyltrimethylammonium bromide vesicle core/shell nanostructures. <i>Applied Surface Science</i> , 2013 , 276, 359-362	6.7	5
32	General Properties of Bulk SiC. <i>Engineering Materials and Processes</i> , 2014 , 7-114		5
31	Suppressing the disturbance in the transmission spectrum of Glan-Thompson-type prism polarizers. <i>Chinese Optics Letters</i> , 2010 , 8, 428-430	2.2	5
30	Fabry-Perot Mode-Limited High-Purcell-Enhanced Spontaneous Emission from Laser-Induced CsPbBr Quantum Dots in CsPbBr Microcavities.. <i>Nano Letters</i> , 2021 ,	11.5	5
29	Carrier recombination spatial transfer by reduced potential barrier causes blue/red switchable luminescence in C8 carbon quantum dots/organic hybrid light-emitting devices. <i>APL Materials</i> , 2016 , 4, 046102	5.7	5
28	Plasmon-assisted photoluminescence enhancement of SiC nanocrystals by proximal silver nanoparticles. <i>Applied Surface Science</i> , 2012 , 258, 10140-10143	6.7	4
27	Synthesis and luminescence properties of silica-coated cubic silicon carbide nanocrystal composites. <i>Micro and Nano Letters</i> , 2011 , 6, 878	0.9	4
26	Mo-containing diamond-like carbon films with blue emission. <i>Journal of Crystal Growth</i> , 2005 , 281, 538-542		4

25	Influence of crystallization temperature on fluorescence of n-diamond quantum dots. <i>Nanotechnology</i> , 2020 , 31, 505712	3.4	4
24	Transmission intensity disturbance in a rotating polarizer. <i>Optics Communications</i> , 2008 , 281, 197-201	2	3
23	Interaction between indium tin oxide nanoparticles and ferricytochrome c: Conformation, redox state, and adsorption scheme. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 213, 64-72	4.4	3
22	The influence of the shell on magnetic properties of CdS: Mn/SiO ₂ composite nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 97, 277-280	2.6	2
21	Core and Surface Electronic States and Phonon Modes in SiC Quantum Dots Studied by Optical Spectroscopy and Hybrid TDDFT. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7259-7266	3.8	2
20	Room-temperature synthesis of various allotropes of carbon nanostructures (graphene, graphene polyhedra, carbon nanotubes and nano-onions, n-diamond nanocrystals) with aid of ultrasonic shock using ethanol and potassium hydroxide. <i>Carbon</i> , 2021 , 179, 133-141	10.4	2
19	Luminescence Properties of ZnO Twin Nanorod/Ag Heteronanocrystals and Interfacial Exciton Surface Plasmon Coupling. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700375	2.5	1
18	Analysis of the random disturbance in transmission intensity for Lippich prisms. <i>Optik</i> , 2011 , 122, 1615-1618	1.8	1
17	One-Center and Two-Center Self-Trapped Excitons in Zero-Dimensional Hybrid Copper Halides: Tricolor Luminescence with High Quantum Yields.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 1373-1381	6.4	1
16	Luminescent Photonic Crystals with Extreme-UV Bandgaps Made of CuInSe ₂ Quantum Dots. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2000757	1.6	1
15	Reversible/Irreversible Photobleaching of Fluorescent Surface Defects of SiC Quantum Dots: Mechanism and Sensing of Solar UV Irradiation. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900272	4.6	0
14	Experimental evidences of defect luminescence spanning red to near-infrared in strongly quantum confined sub-4-nm CuInSe ₂ quantum dots approaching crystallization limit. <i>Applied Physics Express</i> ,	2.4	0
13	Green/White color switchable light-emitting devices based on laterally fused cesium lead bromide perovskite nanowires. <i>Applied Physics Letters</i> , 2021 , 119, 033505	3.4	0
12	Strong fluorescence quenching of carbon dots by mercury(II) ions: Ground-state electron transfer and diminished oscillator strength. <i>Diamond and Related Materials</i> , 2022 , 126, 109076	3.5	0
11	Sensing: Reversible/Irreversible Photobleaching of Fluorescent Surface Defects of SiC Quantum Dots: Mechanism and Sensing of Solar UV Irradiation (Adv. Mater. Interfaces 11/2019). <i>Advanced Materials Interfaces</i> , 2019 , 6, 1970070	4.6	
10	Luminescence Properties of ZnO Twin Nanorod/Ag Heteronanocrystals and Interfacial Exciton Surface Plasmon Coupling (Phys. Status Solidi RRL 2/2018). <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1870306	2.5	
9	SiC Nanotubes. <i>Engineering Materials and Processes</i> , 2014 , 271-294		
8	Porous SiC. <i>Engineering Materials and Processes</i> , 2014 , 115-130		

- 7 Biological Applications. *Engineering Materials and Processes*, **2014**, 317-330
- 6 SiC Nanostructured Films. *Engineering Materials and Processes*, **2014**, 295-315
- 5 Nanoparticle-mediated nonclassical crystal growth of sodium fluorosilicate nanowires and nanoplates. *AIP Advances*, **2011**, 1, 042165 1.5
- 4 Native surface oxidation yields SiC-SiO core-shell quantum dots with improved quantum efficiency.. *Journal of Chemical Physics*, **2022**, 156, 094705 3.9
- 3 SiC Nanowires. *Engineering Materials and Processes*, **2014**, 195-269
- 2 Stability of the structure and redox state of ferricytochrome c in the desolvation process. *Vibrational Spectroscopy*, **2021**, 113, 103220 2.1
- 1 Resonant defect recombination-localized surface plasmon energy transfer and exciton dominated fluorescence in ZnO-Au-ZnO multi-interfaced heteronanocrystals.. *Journal of Chemical Physics*, **2022**, 156, 174705 3.9