

# Jiyang Fan

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8087992/jiyang-fan-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78  
papers

1,995  
citations

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	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> , <b>2022</b> , 13, 1373-1381	6.4	1
77	Native surface oxidation yields SiC-SiO core-shell quantum dots with improved quantum efficiency.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 094705	3.9	
76	Resonant defect recombination-localized surface plasmon energy transfer and exciton dominated fluorescence in ZnO-Au-ZnO multi-interfaced heteronanocrystals.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 174705	3.9	
75	Strong fluorescence quenching of carbon dots by mercury(II) ions: Ground-state electron transfer and diminished oscillator strength. <i>Diamond and Related Materials</i> , <b>2022</b> , 126, 109076	3.5	0
74	Fabry-Perot Mode-Limited High-Purcell-Enhanced Spontaneous Emission from Laser-Induced CsPbBr Quantum Dots in CsPbBr Microcavities.. <i>Nano Letters</i> , <b>2021</b> ,	11.5	5
73	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> , <b>2021</b> , 125, 7259-7266	3.8	2
72	Stability of the structure and redox state of ferricytochrome c in the desolvation process. <i>Vibrational Spectroscopy</i> , <b>2021</b> , 113, 103220	2.1	
71	Role of Polyhedron Unit in Distinct Photophysics of Zero-Dimensional Organic-Inorganic Hybrid Tin Halide Compounds. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 5765-5773	6.4	6
70	In Situ Phase-Transition Crystallization of All-Inorganic Water-Resistant Exciton-Radiative Heteroepitaxial CsPbBr <sub>3</sub> /CsPb <sub>2</sub> Br <sub>5</sub> Core/Shell Perovskite Nanocrystals. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4948-4959	9.6	11
69	Green/White color switchable light-emitting devices based on laterally fused cesium lead bromide perovskite nanowires. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 033505	3.4	0
68	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> , <b>2021</b> , 179, 133-141	10.4	2
67	Luminescent Photonic Crystals with Extreme-UV Bandgaps Made of CuInSe <sub>2</sub> Quantum Dots. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2021</b> , 218, 2000757	1.6	1
66	Influence of crystallization temperature on fluorescence of n-diamond quantum dots. <i>Nanotechnology</i> , <b>2020</b> , 31, 505712	3.4	4
65	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> , <b>2019</b> , 6, 1970070	4.6	
64	Reversible/Irreversible Photobleaching of Fluorescent Surface Defects of SiC Quantum Dots: Mechanism and Sensing of Solar UV Irradiation. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900272	4.6	0
63	Quantitative Modeling of Self-Assembly Growth of Luminescent Colloidal CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2019</b> ,	3.8	10
62	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> , <b>2019</b> , 213, 64-72	4.4	3

61	Critical Roles of High- and Low-Frequency Optical Phonons in Photodynamics of Zero-Dimensional Perovskite-like (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> SnCl Crystals. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7586-7593	6.4	16
60	Carrier accumulation enhanced Auger recombination and inner self-heating-induced spectrum fluctuation in CsPbBr <sub>3</sub> perovskite nanocrystal light-emitting devices. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 243503	3.4	12
59	Quantum confinement luminescence of trigonal cesium lead bromide quantum dots. <i>Applied Surface Science</i> , <b>2019</b> , 466, 119-125	6.7	18
58	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> , <b>2018</b> , 12, 1870306	2.5	
57	Luminescence Properties of ZnO Twin Nanorod/Ag Heteronanocrystals and Interfacial Exciton Surface Plasmon Coupling. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2018</b> , 12, 1700375	2.5	1
56	Quasi-self-trapped Frenkel-exciton near-UV luminescence with large Stokes shift in wide-bandgap Cs <sub>4</sub> PbCl <sub>6</sub> nanocrystals. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 183101	3.4	22
55	Quasi-White Light-Emitting Devices Based on SiC Quantum Dots. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2018</b> , 12, 1800171	2.5	5
54	Analytical model of photon reabsorption in ZnO quantum dots with size and concentration dependent dual-color photoluminescence. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 054309	2.5	9
53	Hydrothermal synthesis of well crystallized C <sub>8</sub> and diamond nanocrystals and pH-controlled C <sub>8</sub> ↔ diamond phase transition. <i>CrystEngComm</i> , <b>2017</b> , 19, 1248-1252	3.3	9
52	Quantum confinement effect in 6H-SiC quantum dots observed via plasmon-exciton coupling-induced defect-luminescence quenching. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 123104	3.4	10
51	Cs/CsPbX <sub>3</sub> (X = Br, Cl) epitaxial heteronanocrystals with magic-angle stable/metastable grain boundary. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 193105	3.4	7
50	Multistage growth of monocrystalline ZnO nanowires and twin-nanorods: oriented attachment and role of the spontaneous polarization force. <i>CrystEngComm</i> , <b>2016</b> , 18, 6492-6501	3.3	27
49	Carrier recombination spatial transfer by reduced potential barrier causes blue/red switchable luminescence in C <sub>8</sub> carbon quantum dots/organic hybrid light-emitting devices. <i>APL Materials</i> , <b>2016</b> , 4, 046102	5.7	5
48	Optical spectroscopy reveals transition of CuInS <sub>2</sub> /ZnS to Cu <sub>x</sub> Zn <sub>1-x</sub> InS <sub>2</sub> /ZnS:Cu alloyed quantum dots with resultant double-defect luminescence. <i>APL Materials</i> , <b>2016</b> , 4, 126101	5.7	10
47	Photon absorption and emission properties of 7 SiC nanoclusters: Electronic gap, surface state, and quantum size effect. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 013104	3.4	11
46	Universal role of oxygen in full-visible-region photoluminescence of diamond nanocrystals. <i>Carbon</i> , <b>2016</b> , 109, 40-48	10.4	9
45	Identification of luminescent surface defect in SiC quantum dots. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 053115	3.4	28
44	Interaction between indium tin oxide nanoparticles and cytochrome c: A surface-enhanced Raman scattering and absorption spectroscopic study. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 245307	2.5	7

- 43 Red shift in the photoluminescence of colloidal carbon quantum dots induced by photon reabsorption. *Applied Physics Letters*, **2014**, 104, 091902 3.4 66
- 42 SiC Nanotubes. *Engineering Materials and Processes*, **2014**, 271-294
- 41 Porous SiC. *Engineering Materials and Processes*, **2014**, 115-130
- 40 Biological Applications. *Engineering Materials and Processes*, **2014**, 317-330
- 39 Silicon Carbide Nanostructures. *Engineering Materials and Processes*, **2014**, 35
- 38 C8-structured carbon quantum dots: Synthesis, blue and green double luminescence, and origins of surface defects. *Carbon*, **2014**, 79, 165-173 10.4 53
- 37 Experimental evidence of phase transformation in SiC quantum dots and their size-dependent luminescence. *Applied Physics Letters*, **2014**, 105, 193110 3.4 19
- 36 General Properties of Bulk SiC. *Engineering Materials and Processes*, **2014**, 7-114 5
- 35 SiC Nanostructured Films. *Engineering Materials and Processes*, **2014**, 295-315
- 34 Surface-enhanced Raman spectroscopy on transparent fume-etched ITO-glass surface. *Applied Surface Science*, **2014**, 309, 250-254 6.7 8
- 33 SiC Nanowires. *Engineering Materials and Processes*, **2014**, 195-269
- 32 Synthesis and photoluminescence of semiconductor quantum dots/cetyltrimethylammonium bromide vesicle core/shell nanostructures. *Applied Surface Science*, **2013**, 276, 359-362 6.7 5
- 31 Giant photoluminescence enhancement in SiC nanocrystals by resonant semiconductor exciton-metal surface plasmon coupling. *Nanotechnology*, **2013**, 24, 025201 3.4 17
- 30 Plasmon-assisted photoluminescence enhancement of SiC nanocrystals by proximal silver nanoparticles. *Applied Surface Science*, **2012**, 258, 10140-10143 6.7 4
- 29 Interference effects on indium tin oxide enhanced Raman scattering. *Journal of Applied Physics*, **2012**, 111, 033110 2.5 8
- 28 Photoluminescence and light reabsorption in SiC quantum dots embedded in binary-polyelectrolyte solid matrix. *Journal of Applied Physics*, **2012**, 112, 094315 2.5 9
- 27 Highly bright tunable blue-violet photoluminescence in SiC nanocrystal-sodium dodecyl sulfonate crosslinked network. *Nanoscale*, **2012**, 4, 3044-6 7.7 16
- 26 Fabrication and photoluminescence of SiC quantum dots stemming from 3C, 6H, and 4H polytypes of bulk SiC. *Applied Physics Letters*, **2012**, 101, 131906 3.4 54

25	Identification of the reconstruction and bonding structure of SiC nanocrystal surface by infrared spectroscopy. <i>Applied Surface Science</i> , <b>2011</b> , 258, 627-630	6.7	14
24	Nanoparticle-mediated nonclassical crystal growth of sodium fluorosilicate nanowires and nanoplates. <i>AIP Advances</i> , <b>2011</b> , 1, 042165	1.5	
23	Synthesis and luminescence properties of silica-coated cubic silicon carbide nanocrystal composites. <i>Micro and Nano Letters</i> , <b>2011</b> , 6, 878	0.9	4
22	Analysis of the random disturbance in transmission intensity for Lippich prisms. <i>Optik</i> , <b>2011</b> , 122, 1615-1618	1.8	1
21	UV-blue photoluminescence from close-packed SiC nanocrystal film. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 081913	3.4	16
20	Excitation and recombination photodynamics in colloidal cubic SiC nanocrystals. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 191911	3.4	17
19	Suppressing the disturbance in the transmission spectrum of Glan-Thompson-type prism polarizers. <i>Chinese Optics Letters</i> , <b>2010</b> , 8, 428-430	2.2	5
18	Group IV nanoparticles: synthesis, properties, and biological applications. <i>Small</i> , <b>2010</b> , 6, 2080-98	11	242
17	The influence of the shell on magnetic properties of CdS: Mn/SiO <sub>2</sub> composite nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 97, 277-280	2.6	2
16	Microstructure and infrared spectral properties of porous polycrystalline and nanocrystalline cubic silicon carbide. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 021906	3.4	19
15	3C-SiC nanocrystals as fluorescent biological labels. <i>Small</i> , <b>2008</b> , 4, 1058-62	11	154
14	Transmission intensity disturbance in a rotating polarizer. <i>Optics Communications</i> , <b>2008</b> , 281, 197-201	2	3
13	Low-dimensional SiC nanostructures: Fabrication, luminescence, and electrical properties. <i>Progress in Materials Science</i> , <b>2006</b> , 51, 983-1031	42.2	275
12	Enhanced and tunable blue luminescence from CdS nanocrystal/polymer composites. <i>Scripta Materialia</i> , <b>2006</b> , 55, 1123-1126	5.6	23
11	Luminescent amorphous alumina nanoparticles in toluene solution. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 9937-9942	1.8	13
10	Vacuum electron field emission from SnO <sub>2</sub> nanowhiskers annealed in N <sub>2</sub> and O <sub>2</sub> atmospheres. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 013109	3.4	29
9	Synthesis and low-temperature photoluminescence properties of SnO <sub>2</sub> nanowires and nanobelts. <i>Nanotechnology</i> , <b>2006</b> , 17, 1695-9	3.4	205
8	Luminescence from colloidal 3C-SiC nanocrystals in different solvents. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 041909	3.4	73

7	Stability of luminescent 3C-SiC nanocrystallites in aqueous solution. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2006</b> , 360, 336-338	2.3	29
6	Si-based solid blue emitters from 3C-SiC nanocrystals. <i>Applied Physics A: Materials Science and Processing</i> , <b>2006</b> , 82, 485-487	2.6	8
5	Experimental evidence for the quantum confinement effect in 3C-SiC nanocrystallites. <i>Physical Review Letters</i> , <b>2005</b> , 94, 026102	7.4	264
4	Luminescent silicon carbide nanocrystallites in 3C-SiC/polystyrene films. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 171903	3.4	34
3	Mo-containing diamond-like carbon films with blue emission. <i>Journal of Crystal Growth</i> , <b>2005</b> , 281, 538-542	4	4
2	A study on transmitted intensity of disturbance for air-spaced Glan-type polarizing prisms. <i>Optics Communications</i> , <b>2003</b> , 223, 11-16	2	8
1	Experimental evidences of defect luminescence spanning red to near-infrared in strongly quantum confined sub-4-nm CuInSe <sub>2</sub> quantum dots approaching crystallization limit. <i>Applied Physics Express</i> ,	2.4	0