

# Chongxin Shan

## List of Publications by Year in descending order

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108  
papers

5,005  
citations

76326

40  
h-index

98798

67  
g-index

108  
all docs

108  
docs citations

108  
times ranked

4305  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure-induced photoluminescence enhancement and ambient retention in confined carbon dots. <i>Nano Research</i> , 2022, 15, 2545-2551.	10.4	26
2	Multicolor biomass based carbon nanodots for bacterial imaging. <i>Chinese Chemical Letters</i> , 2022, 33, 798-802.	9.0	15
3	Near-infrared carbon nanodots for effective identification and inactivation of Gram-positive bacteria. <i>Nano Research</i> , 2022, 15, 1699-1708.	10.4	32
4	Electron-hole plasma Fabry-Perot lasing in a Ga-incorporated ZnO microbelt via Ag nanoparticle deposition. <i>Optics Express</i> , 2022, 30, 740.	3.4	3
5	White Light Afterglow in Carbon Dots Achieved via Synergy between the Room-Temperature Phosphorescence and the Delayed Fluorescence. <i>Small</i> , 2022, 18, e2105415.	10.0	44
6	Pentaheptite diamond: a new carbon allotrope. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 184003.	1.8	0
7	Recycling Synthetic Route to Full-Color Fluorescent Carbon Nanodots. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1624-1632.	6.7	13
8	Localized Excitonic Electroluminescence from Carbon Nanodots. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1587-1595.	4.6	18
9	Wafer-sized polycrystalline diamond photodetector planar arrays for solar-blind imaging. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6488-6496.	5.5	14
10	Recent progress of carbon dots in targeted bioimaging and cancer therapy. <i>Theranostics</i> , 2022, 12, 2860-2893.	10.0	44
11	Ultrasensitive monolayer-MoS <sub>2</sub> heterojunction photodetectors realized via an asymmetric Fabry-Perot cavity. <i>Science China Materials</i> , 2022, 65, 1861-1868.	6.3	5
12	Near-infrared chemiluminescent carbon nanogels for oncology imaging and therapy. <i>SmartMat</i> , 2022, 3, 269-285.	10.7	20
13	Rare earth nanoparticles for sprayed and intravenous NIR II imaging and photodynamic therapy of tongue cancer. <i>Nanoscale Advances</i> , 2022, 4, 2224-2232.	4.6	4
14	Effective control of microbial spoilage in soybeans by water-soluble ZnO nanoparticles. <i>Food Chemistry</i> , 2022, 388, 132994.	8.2	5
15	Brighten Triplet Excitons of Carbon Nanodots for Multicolor Phosphorescence Films. <i>Nano Letters</i> , 2022, 22, 4097-4105.	9.1	49
16	Ultraviolet phosphorescent carbon nanodots. <i>Light: Science and Applications</i> , 2022, 11, .	16.6	33
17	High-performance solar-blind photodetector arrays constructed from Sn-doped Ga <sub>2</sub> O <sub>3</sub> microwires via patterned electrodes. <i>Nano Research</i> , 2022, 15, 7631-7638.	10.4	26
18	Ga <sub>2</sub> O <sub>3</sub> -Based Solar-Blind Position-Sensitive Detector for Noncontact Measurement and Optoelectronic Demodulation. <i>Nano Letters</i> , 2022, 22, 4888-4896.	9.1	27

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19	Carbon nanodot-based humidity sensor for self-powered respiratory monitoring. <i>Nano Energy</i> , 2022, 101, 107549.	16.0	44
20	Diamond-graphite nanocomposite synthesized from multi-walled carbon nanotubes fibers. <i>Carbon</i> , 2021, 172, 138-143.	10.3	20
21	Solar-blind imaging based on 2-inch polycrystalline diamond photodetector linear array. <i>Carbon</i> , 2021, 173, 427-432.	10.3	39
22	Self-exothermic reaction driven large-scale synthesis of phosphorescent carbon nanodots. <i>Nano Research</i> , 2021, 14, 2231-2240.	10.4	41
23	Lifetime-Engineered Carbon Nanodots for Time Division Duplexing. <i>Advanced Science</i> , 2021, 8, 2003433.	11.2	54
24	Humidity Sensors Realized via Negative Photoconductivity Effect in Nanodiamonds. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4079-4084.	4.6	18
25	Deep-ultraviolet and visible dual-band photodetectors by integrating Chlorin e6 with Ga <sub>2</sub> O <sub>3</sub> . <i>Chinese Physics B</i> , 2021, 30, 078504.	1.4	6
26	Bandgap engineering of Gallium oxides by crystalline disorder. <i>Materials Today Physics</i> , 2021, 18, 100369.	6.0	44
27	Wafer-scale growth of two-dimensional graphitic carbon nitride films. <i>Matter</i> , 2021, 4, 1625-1638.	10.0	52
28	Zero-biased solar-blind photodetectors based on AlN/Al <sub>2</sub> O <sub>3</sub> heterojunctions. <i>Semiconductor Science and Technology</i> , 2021, 36, 065007.	2.0	11
29	Computational Prediction of a Novel Superhard sp <sup>3</sup> Trigonal Carbon Allotrope with Bandgap Larger than Diamond. <i>Chinese Physics Letters</i> , 2021, 38, 076101.	3.3	14
30	Solar-Blind Position-Sensitive Detectors Fabricated from Al <sub>2</sub> O <sub>3</sub> /Polycrystalline Diamond Heterojunctions. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100347.	2.4	11
31	MAPbBr <sub>x</sub> Cl <sub>3-x</sub> quantum dots in Pb(OH)Br for stable blue light-emitting devices. <i>Journal of Luminescence</i> , 2021, 236, 118158.	3.1	10
32	Surface chemical engineering towards efficient and bright chemiluminescent carbon nanodots. <i>Applied Surface Science</i> , 2021, 559, 149947.	6.1	8
33	Visible-light-driven photocatalytic inactivation of <i>S. aureus</i> in aqueous environment by hydrophilic zinc oxide (ZnO) nanoparticles based on the interfacial electron transfer in <i>S. aureus</i> /ZnO composites. <i>Journal of Hazardous Materials</i> , 2021, 418, 126013.	12.4	28
34	Ratiometric fluorescence sensor based on europium-grafted ZnO quantum dots for visual and colorimetric detection of tetracycline. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 259, 119901.	3.9	29
35	Nanodiamonds: Synthesis, properties, and applications in nanomedicine. <i>Materials and Design</i> , 2021, 210, 110091.	7.0	68
36	Lifetime-Engineered Phosphorescent Carbon Dots-in-Zeolite Composites for Naked-Eye Visible Multiplexing. <i>CCS Chemistry</i> , 2021, 3, 252-264.	7.8	34

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37	Ga <sub>2</sub> O <sub>3</sub> -based multilevel solar-blind photomemory array with logic, arithmetic, and image storage functions. <i>Materials Horizons</i> , 2021, 8, 3368-3376.	12.2	19
38	Carbon Dots@EuAPO Zeolite: Triple-Emission for Multilevel Luminescence Anti-Counterfeiting. <i>Small</i> , 2021, 17, e2103374.	10.0	47
39	Phosphorescent Carbon-Nanodots-Assisted Förster Resonant Energy Transfer for Achieving Red Afterglow in an Aqueous Solution. <i>ACS Nano</i> , 2021, 15, 16242-16254.	14.6	94
40	Gram-scale and solvent-free synthesis of Mn-doped lead halide perovskite nanocrystals. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152393.	5.5	11
41	Orthorhombic C14 carbon: A novel superhard sp <sup>3</sup> carbon allotrope. <i>Carbon</i> , 2020, 156, 309-312.	10.3	47
42	Zeolite-confined carbon dots: tuning thermally activated delayed fluorescence emission via energy transfer. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1404-1410.	5.9	57
43	Pressure-Induced Ultra-Broad-Band Emission of a Cs <sub>2</sub> AgBiBr <sub>6</sub> Perovskite Thin Film. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1732-1738.	3.1	25
44	Ga <sub>2</sub> O <sub>3</sub> solar-blind position-sensitive detectors. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	26
45	Plasticizer-free polymer membrane potentiometric sensors based on molecularly imprinted polymers for determination of neutral phenols. <i>Analytica Chimica Acta</i> , 2020, 1121, 50-56.	5.4	21
46	Plasma Treatments and Light Extraction from Fluorinated CVD-Grown (400) Single Crystal Diamond Nanopillars. <i>Journal of Carbon Research</i> , 2020, 6, 37.	2.7	2
47	Ultralong and efficient phosphorescence from silica confined carbon nanodots in aqueous solution. <i>Nano Today</i> , 2020, 34, 100900.	11.9	147
48	Water-induced MAPbBr <sub>3</sub> @PbBr(OH) with enhanced luminescence and stability. <i>Light: Science and Applications</i> , 2020, 9, 44.	16.6	122
49	Multiplex PCR Sets of Novel Microsatellite Loci for Iwagaki Oyster <i>Crassostrea nippona</i> and Their Application in Parentage Assignment. <i>Journal of Ocean University of China</i> , 2020, 19, 191-198.	1.2	6
50	Near-Infrared Chemiluminescent Carbon Nanodots and Their Application in Reactive Oxygen Species Bioimaging. <i>Advanced Science</i> , 2020, 7, 1903525.	11.2	143
51	Hydrophilic ZnO Nanoparticles@Calcium Alginate Composite for Water Purification. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 13305-13315.	8.0	44
52	Water-induced ultralong room temperature phosphorescence by constructing hydrogen-bonded networks. <i>Nano Research</i> , 2020, 13, 875-881.	10.4	51
53	Scalable Synthesis of Green Fluorescent Carbon Dot Powders with Unprecedented Efficiency. <i>Advanced Optical Materials</i> , 2020, 8, 1901938.	7.3	74
54	Ultraviolet irradiation dosimeter based on persistent photoconductivity effect of ZnO*. <i>Chinese Physics B</i> , 2020, 29, 058504.	1.4	7

#	ARTICLE	IF	CITATIONS
55	The Effect of Network Structure on Compressive Fatigue Behavior of Unfilled Styrene-Butadiene Rubber. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-9.	1.8	3
56	Enhancing the mechanoluminescence of traditional ZnS:Mn phosphors via Li <sup>+</sup> Co-doping. <i>Journal of Luminescence</i> , 2020, 225, 117364.	3.1	18
57	Solar-blind photodetectors based on MXenes <sup>2+</sup> -Ga <sub>2</sub> O <sub>3</sub> Schottky junctions. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 484001.	2.8	44
58	Two-step high-pressure high-temperature synthesis of nanodiamonds from naphthalene*. <i>Chinese Physics B</i> , 2020, 29, 108102.	1.4	13
59	Nonequilibrium hot-electron-induced wavelength-tunable incandescent-type light sources. <i>Photonics Research</i> , 2020, 8, 91.	7.0	27
60	Carbon Dots-in-Zeolite via In-Situ Solvent-Free Thermal Crystallization: Achieving High-Efficiency and Ultralong Afterglow Dual Emission. <i>CCS Chemistry</i> , 2020, 2, 118-127.	7.8	50
61	Development and characterization of 108 SNP markers in the Iwagaki oyster, <i>Crassostrea nippona</i> . <i>Conservation Genetics Resources</i> , 2019, 11, 437-442.	0.8	6
62	Electrical-pumping spasing action from cross-stacked microwires. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10933-10944.	5.5	9
63	Efficient Red/Near-Infrared Emissive Carbon Nanodots with Multiphoton Excited Upconversion Fluorescence. <i>Advanced Science</i> , 2019, 6, 1900766.	11.2	121
64	Deep-Ultraviolet Emissive Carbon Nanodots. <i>Nano Letters</i> , 2019, 19, 5553-5561.	9.1	56
65	3D Solar-Blind Ga <sub>2</sub> O <sub>3</sub> Photodetector Array Realized Via Origami Method. <i>Advanced Functional Materials</i> , 2019, 29, 1906040.	14.9	120
66	Fluorescent Nano-Biomass Dots: Ultrasonic-Assisted Extraction and Their Application as Nanoprobe for Fe <sup>3+</sup> detection. <i>Nanoscale Research Letters</i> , 2019, 14, 130.	5.7	40
67	Broadband photodetection of 2D Bi <sub>2</sub> O <sub>2</sub> Se <sup>2+</sup> -MoSe <sub>2</sub> heterostructure. <i>Journal of Materials Science</i> , 2019, 54, 14742-14751.	3.7	46
68	Comparison of crystallization behavior of Trans-1,4-polyisoprene under different crystallization temperature, pressure and tension. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	4
69	Ultrasensitive Mechano-Stimuli Luminescence Enhancement in ZnO Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3557-3562.	4.6	10
70	Amorphous Gallium Oxide-Based Gate-Tunable High-Performance Thin Film Phototransistor for Solar-Blind Imaging. <i>Advanced Electronic Materials</i> , 2019, 5, 1900389.	5.1	95
71	Bright and Multicolor Chemiluminescent Carbon Nanodots for Advanced Information Encryption. <i>Advanced Science</i> , 2019, 6, 1802331.	11.2	120
72	Effects of tension fatigue on the structure and properties of carbon black filled-SBR and SBR/TPI blends. <i>Journal of Polymer Engineering</i> , 2019, 40, 13-20.	1.4	2

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73	Efficient and Stable Low-Bandgap Perovskite Solar Cells Enabled by a CsPbBr <sub>3</sub> -Cluster Assisted Bottom-up Crystallization Approach. <i>Journal of the American Chemical Society</i> , 2019, 141, 20537-20546.	13.7	79
74	Ga <sub>2</sub> O <sub>3</sub> photodetector arrays for solar-blind imaging. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2557-2562.	5.5	97
75	Oleylamine-assisted and temperature-controlled synthesis of ZnO nanoparticles and their application in encryption. <i>Nanotechnology</i> , 2019, 30, 015702.	2.6	7
76	Diamond based photodetectors for solar-blind communication. <i>Optics Express</i> , 2019, 27, 29962.	3.4	65
77	Self-powered NiO@ZnO-nanowire-heterojunction ultraviolet micro-photodetectors. <i>Optical Materials Express</i> , 2019, 9, 2775.	3.0	24
78	Electrically excited hot-electron dominated fluorescent emitters using individual Ga-doped ZnO microwires <i>via</i> metal quasiparticle film decoration. <i>Nanoscale</i> , 2018, 10, 5678-5688.	5.6	25
79	Electrically driven lasers from van der Waals heterostructures. <i>Nanoscale</i> , 2018, 10, 9602-9607.	5.6	28
80	Towards efficient and stable multi-color carbon nanoparticle phosphors: synergy between inner polar groups and outer silica matrix. <i>Science China Materials</i> , 2018, 61, 1191-1200.	6.3	10
81	Carbon-ZnO alternating quantum dot chains: electrostatic adsorption assembly and white light-emitting device application. <i>Nanoscale</i> , 2018, 10, 7155-7162.	5.6	38
82	Phonon-Assisted Photoluminescence Up-Conversion of Silicon-Vacancy Centers in Diamond. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6656-6661.	4.6	21
83	Electrically pumped Fabry-Pérot microlasers from single Ga-doped ZnO microbelt based heterostructure diodes. <i>Nanoscale</i> , 2018, 10, 18774-18785.	5.6	45
84	Diamond-Based All-Carbon Photodetectors for Solar-Blind Imaging. <i>Advanced Optical Materials</i> , 2018, 6, 1800068.	7.3	117
85	Multi-zinc oxide-cores@barium sulfate-shell with improved photo-, thermal-, and ambient-stability: Non-equilibrium sorption fabrication and light-emitting diodes application. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 1-10.	9.4	7
86	Optoelectronic Diamond: Growth, Properties, and Photodetection Applications. <i>Advanced Optical Materials</i> , 2018, 6, 1800359.	7.3	91
87	Self-powered diamond/Ga <sub>2</sub> O <sub>3</sub> photodetectors for solar-blind imaging. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5727-5732.	5.5	270
88	Fluorescence of ZnO/carbon mixture and application in acid rain detection. <i>RSC Advances</i> , 2017, 7, 1841-1846.	3.6	8
89	Europium-decorated ZnO quantum dots as a fluorescent sensor for the detection of an anthrax biomarker. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1685-1691.	5.5	59
90	Near-infrared light-emitting devices from individual heavily Ga-doped ZnO microwires. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2542-2551.	5.5	20

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91	Rewritable Painting Realized from Ambient-Sensitive Fluorescence of ZnO Nanoparticles. <i>Scientific Reports</i> , 2017, 7, 42232.	3.3	18
92	Wavelength-Tunable Electroluminescent Light Sources from Individual Ga-Doped ZnO Microwires. <i>Small</i> , 2017, 13, 1604034.	10.0	62
93	Advanced encryption based on fluorescence quenching of ZnO nanoparticles. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7167-7173.	5.5	42
94	ZnO-based deep-ultraviolet light-emitting devices. <i>Chinese Physics B</i> , 2017, 26, 047703.	1.4	37
95	High-Efficiency and Air-Stable Perovskite Quantum Dots Light-Emitting Diodes with an All-Inorganic Heterostructure. <i>Nano Letters</i> , 2017, 17, 313-321.	9.1	402
96	Wavelength-Tunable Ultraviolet Electroluminescence from Ga-Doped ZnO Microwires. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40743-40751.	8.0	40
97	Sb-Doped ZnO microwires: emitting filament and homojunction light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10938-10946.	5.5	23
98	Piezophototronic-Enhanced Electrically Pumped Lasing. <i>Advanced Materials</i> , 2017, 29, 1602832.	21.0	35
99	Carbon Nanodots as Dual-Mode Nanosensors for Selective Detection of Hydrogen Peroxide. <i>Nanoscale Research Letters</i> , 2017, 12, 447.	5.7	54
100	Plant Cell Imaging Based on Nanodiamonds with Excitation-Dependent Fluorescence. <i>Nanoscale Research Letters</i> , 2016, 11, 425.	5.7	18
101	Transparent ultraviolet photovoltaic cells. <i>Optics Letters</i> , 2016, 41, 685.	3.3	11
102	Electrically pumped random lasers with p-diamond as a hole source. <i>Optica</i> , 2015, 2, 558.	9.3	14
103	Plasmon-enhanced ultraviolet photoluminescence from the hybrid plasmonic Fabry-Perot microcavity of Ag/ZnO microwires. <i>Nanoscale</i> , 2014, 6, 1354-1361.	5.6	17
104	Hybrid quadrupolar resonances stimulated at short wavelengths using coupled plasmonic silver nanoparticle aggregation. <i>Journal of Materials Chemistry C</i> , 2014, 2, 56-63.	5.5	48
105	Highly Sensitive Ultraviolet Photodetectors Fabricated from ZnO Quantum Dots/Carbon Nanodots Hybrid Films. <i>Scientific Reports</i> , 2014, 4, 7469.	3.3	116
106	Self-powered spectrum-selective photodetectors fabricated from n-ZnO/p-NiO core-shell nanowire arrays. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4445.	5.5	134
107	Ultralow-Threshold Laser Realized in Zinc Oxide. <i>Advanced Materials</i> , 2009, 21, 1613-1617.	21.0	205
108	Ultraviolet Photodetector Based on a MgZnO Film Grown by Radio-Frequency Magnetron Sputtering. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 2428-2430.	8.0	82