

# Louzhen Fan

## List of Publications by Year in descending order

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85  
papers

8,258  
citations

101496

36  
h-index

49868

87  
g-index

93  
all docs

93  
docs citations

93  
times ranked

8936  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering triangular carbon quantum dots with unprecedented narrow bandwidth emission for multicolored LEDs. <i>Nature Communications</i> , 2018, 9, 2249.	5.8	676
2	Facile synthesis of water-soluble, highly fluorescent graphene quantum dots as a robust biological label for stem cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 7461.	6.7	667
3	Bright Multicolor Bandgap Fluorescent Carbon Quantum Dots for Electroluminescent Light-Emitting Diodes. <i>Advanced Materials</i> , 2017, 29, 1604436.	11.1	643
4	Shining carbon dots: Synthesis and biomedical and optoelectronic applications. <i>Nano Today</i> , 2016, 11, 565-586.	6.2	563
5	53% Efficient Red Emissive Carbon Quantum Dots for High Color Rendering and Stable Warm White Light-Emitting Diodes. <i>Advanced Materials</i> , 2017, 29, 1702910.	11.1	563
6	Sulfur-Doped Graphene Quantum Dots as a Novel Fluorescent Probe for Highly Selective and Sensitive Detection of Fe <sup>3+</sup> . <i>Analytical Chemistry</i> , 2014, 86, 10201-10207.	3.2	519
7	Electrochemical synthesis of small-sized red fluorescent graphene quantum dots as a bioimaging platform. <i>Chemical Communications</i> , 2015, 51, 2544-2546.	2.2	297
8	Targeted tumour theranostics in mice via carbon quantum dots structurally mimicking large amino acids. <i>Nature Biomedical Engineering</i> , 2020, 4, 704-716.	11.6	243
9	Surrounding media sensitive photoluminescence of boron-doped graphene quantum dots for highly fluorescent dyed crystals, chemical sensing and bioimaging. <i>Carbon</i> , 2014, 70, 149-156.	5.4	232
10	Carbon quantum dots: an emerging material for optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6820-6835.	2.7	225
11	Fluorescent graphene quantum dots for biosensing and bioimaging. <i>RSC Advances</i> , 2015, 5, 19773-19789.	1.7	203
12	Multicolor fluorescent graphene quantum dots colorimetrically responsive to all-pH and a wide temperature range. <i>Nanoscale</i> , 2015, 7, 11727-11733.	2.8	187
13	Electroluminescent Warm White Light-Emitting Diodes Based on Passivation Enabled Bright Red Bandgap Emission Carbon Quantum Dots. <i>Advanced Science</i> , 2019, 6, 1900397.	5.6	174
14	The uptake mechanism and biocompatibility of graphene quantum dots with human neural stem cells. <i>Nanoscale</i> , 2014, 6, 5799-5806.	2.8	171
15	Exceptionally High Payload of the IR780 Iodide on Folic Acid-Functionalized Graphene Quantum Dots for Targeted Photothermal Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22332-22341.	4.0	167
16	Passivation of the grain boundaries of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> using carbon quantum dots for highly efficient perovskite solar cells with excellent environmental stability. <i>Nanoscale</i> , 2019, 11, 115-124.	2.8	164
17	Rhodamine-Functionalized Graphene Quantum Dots for Detection of Fe <sup>3+</sup> in Cancer Stem Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23958-23966.	4.0	163
18	Carbon dots: a booming material for biomedical applications. <i>Materials Chemistry Frontiers</i> , 2020, 4, 821-836.	3.2	150

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19	Red-Emissive Carbon Quantum Dots for Nuclear Drug Delivery in Cancer Stem Cells. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1357-1363.	2.1	127
20	pH-Responsive fluorescent graphene quantum dots for fluorescence-guided cancer surgery and diagnosis. <i>Nanoscale</i> , 2017, 9, 4928-4933.	2.8	122
21	Graphene quantum dots as smart probes for biosensing. <i>Analytical Methods</i> , 2016, 8, 4001-4016.	1.3	116
22	Fluorescence-phosphorescence dual emissive carbon nitride quantum dots show 25% white emission efficiency enabling single-component WLEDs. <i>Chemical Science</i> , 2019, 10, 9801-9806.	3.7	115
23	Highly efficient and stable white LEDs based on pure red narrow bandwidth emission triangular carbon quantum dots for wide-color gamut backlight displays. <i>Nano Research</i> , 2019, 12, 1669-1674.	5.8	107
24	Recent advances in white light-emitting diodes of carbon quantum dots. <i>Nanoscale</i> , 2020, 12, 4826-4832.	2.8	98
25	Electrochemical route to the preparation of highly dispersed composites of ZnO/carbon nanotubes with significantly enhanced electrochemiluminescence from ZnO. <i>Journal of Materials Chemistry</i> , 2008, 18, 4964.	6.7	90
26	Gram-scale Synthesis of Highly Efficient Rare-Earth-Element-Free Red/Green/Blue Solid-State Bandgap Fluorescent Carbon Quantum Rings for White Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16343-16348.	7.2	70
27	Ultrastable and Low-Threshold Random Lasing from Narrow-Bandwidth-Emission Triangular Carbon Quantum Dots. <i>Advanced Optical Materials</i> , 2019, 7, 1801202.	3.6	67
28	Ultrabroad-band, red sufficient, solid white emission from carbon quantum dot aggregation for single component warm white light emitting diodes with a 91 high color rendering index. <i>Chemical Communications</i> , 2019, 55, 6531-6534.	2.2	62
29	CdS-Ag nanocomposite arrays: enhanced electro-chemiluminescence but quenched photoluminescence. <i>Journal of Materials Chemistry</i> , 2009, 19, 3841.	6.7	56
30	Highly Ordered Hierarchical Pt and PtNi Nanowire Arrays for Enhanced Electrocatalytic Activity toward Methanol Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 9444-9450.	4.0	54
31	Red Phosphorescent Carbon Quantum Dot Organic Framework-Based Electroluminescent Light-Emitting Diodes Exceeding 5% External Quantum Efficiency. <i>Journal of the American Chemical Society</i> , 2021, 143, 18941-18951.	6.6	54
32	Multifunctional p-Type Carbon Quantum Dots: a Novel Hole Injection Layer for High-Performance Perovskite Light-Emitting Diodes with Significantly Enhanced Stability. <i>Advanced Optical Materials</i> , 2019, 7, 1901299.	3.6	52
33	A novel colorimetric potassium sensor based on the substitution of lead from G-quadruplex. <i>Analyst</i> , 2013, 138, 856-862.	1.7	50
34	Na <sup>+</sup> -Induced Conformational Change of Pb <sup>2+</sup> -Stabilized G-Quadruplex and Its Influence on Pb <sup>2+</sup> Detection. <i>Analytical Chemistry</i> , 2016, 88, 9375-9380.	3.2	45
35	Solution Grown Single-Unit-Cell Quantum Wires Affording Self-Powered Solar-Blind UV Photodetectors with Ultrahigh Selectivity and Sensitivity. <i>Journal of the American Chemical Society</i> , 2019, 141, 3480-3488.	6.6	44
36	Electrochemically generated fluorescent fullerene[60] nanoparticles as a new and viable bioimaging platform. <i>Journal of Materials Chemistry</i> , 2011, 21, 819-823.	6.7	41

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37	Activatable Protein Nanoparticles for Targeted Delivery of Therapeutic Peptides. <i>Advanced Materials</i> , 2018, 30, 1705383.	11.1	38
38	Nitrogen-Rich D-İ€-A Structural Carbon Quantum Dots with a Bright Two-Photon Fluorescence for Deep-Tissue Imaging. <i>ACS Applied Bio Materials</i> , 2018, 1, 853-858.	2.3	37
39	Graphene-based porous carbon-Pd/SnO<sub>2</sub> nanocomposites with enhanced electrocatalytic activity and durability for methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8898-8904.	5.2	36
40	Single small molecule-assembled nanoparticles mediate efficient oral drug delivery. <i>Nano Research</i> , 2019, 12, 2468-2476.	5.8	36
41	Ligand-Tuned Shape Control, Oriented Assembly, and Electrochemical Characterization of Colloidal ZnTe Nanocrystals. <i>Chemistry of Materials</i> , 2010, 22, 4632-4641.	3.2	33
42	Highly Selective and Sensitive Detection of Dopamine in the Presence of Excessive Ascorbic Acid Using Electrodes Modified with C<sub>60</sub>-Functionalized Multiwalled Carbon Nanotube Films. <i>Electroanalysis</i> , 2009, 21, 2660-2666.	1.5	31
43	Ultralong CdTe Nanowires: Catalyst-Free Synthesis and High-Yield Transformation into Core-Shell Heterostructures. <i>Advanced Functional Materials</i> , 2012, 22, 2402-2411.	7.8	31
44	Carbon dots: An innovative luminescent nanomaterial. <i>Aggregate</i> , 2022, 3, e108.	5.2	31
45	Photovoltaic Devices with Methanofullerenes as Electron Acceptors. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11509-11514.	1.2	30
46	Applications of carbon dots on tumour theranostics. <i>View</i> , 2021, 2, 20200061.	2.7	30
47	Single-Crystalline C<sub>60</sub> Nanostructures by Sonophysical Preparation: Tuning Hollow Nanobowls as Catalyst Supports for Methanol Oxidation. <i>Chemistry - A European Journal</i> , 2011, 17, 4921-4926.	1.7	28
48	Ultrathin ZnSe nanowires: one-pot synthesis via a heat-triggered precursor slow releasing route, controllable Mn doping and application in UV and near-visible light detection. <i>Nanoscale</i> , 2017, 9, 15044-15055.	2.8	27
49	Recent Advance in Carbon Dots: From Properties to Applications. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1364-1388.	2.6	24
50	Glucose oxidase decorated fluorescent metal-organic frameworks as biomimetic cascade nanozymes for glucose detection through the inner filter effect. <i>Analyst</i> , 2021, 146, 4188-4194.	1.7	24
51	Highly dispersible and charge-tunable magnetic Fe<sub>3</sub>O<sub>4</sub> nanoparticles: facile fabrication and reversible binding to GO for efficient removal of dye pollutants. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15763-15767.	5.2	23
52	Toward phosphorescent and delayed fluorescent carbon quantum dots for next-generation electroluminescent displays. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2333-2348.	2.7	23
53	Enhanced electrochemical evolution of oxygen by using nanoflowers made from a gold and iridium oxide composite. <i>Mikrochimica Acta</i> , 2012, 178, 107-114.	2.5	22
54	Aptamer-Based K<sup>+</sup> Sensor: Process of Aptamer Transforming into G-Quadruplex. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6606-6611.	1.2	22

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55	Template-free solution growth of highly regular, crystal orientation-ordered C <sub>60</sub> nanorod bundles. <i>Journal of Materials Chemistry</i> , 2010, 20, 953-956.	6.7	21
56	Synthesis of red fluorescent graphene quantum dot-europium complex composites as a viable bioimaging platform. <i>Mikrochimica Acta</i> , 2016, 183, 2605-2613.	2.5	21
57	Investigation of Na <sup>+</sup> and K <sup>+</sup> Competitively Binding with a G-Quadruplex and Discovery of a Stable K <sup>+</sup> â€“Na <sup>+</sup> -Quadruplex. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5405-5411.	1.2	20
58	Electrodeposition and electrocatalytic properties of platinum nanoparticles on multi-walled carbon nanotubes: effect of the deposition conditions. <i>Mikrochimica Acta</i> , 2007, 158, 327-334.	2.5	19
59	Electrochemical synthesis of sulfur-doped graphene sheets for highly efficient oxygen reduction. <i>Science China Chemistry</i> , 2015, 58, 417-424.	4.2	19
60	Buffer species-dependent catalytic activity of Cu-Adenine as a laccase mimic for constructing sensor array to identify multiple phenols. <i>Analytica Chimica Acta</i> , 2022, 1204, 339725.	2.6	18
61	Controlled calcination of ZnSe and ZnTe nanospheres to prepare visible-light catalysts with enhanced photostability and photoactivity. <i>Journal of Materials Science</i> , 2016, 51, 11021-11037.	1.7	16
62	Systematic truncating of aptamers to create high-performance graphene oxide (GO)-based aptasensors for the multiplex detection of mycotoxins. <i>Analyst</i> , 2019, 144, 3826-3835.	1.7	16
63	Plasmonic Hot Hole Extraction from CuS Nanodisks Enables Significant Acceleration of Oxygen Evolution Reactions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7988-7996.	2.1	14
64	Insights into the Competition between K <sup>+</sup> and Pb <sup>2+</sup> Binding to a G-Quadruplex and Discovery of a Novel K <sup>+</sup> â€“Pb <sup>2+</sup> â€“Quadruplex Intermediate. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9382-9388.	1.2	13
65	Precursor reactivity differentiation for single-step preparation of Ag <sub>2</sub> Se@Ag <sub>2</sub> S coreâ€“shell nanocrystals with distinct absorption and emission properties enabling sensitive near-infrared photodetection. <i>Journal of Materials Science</i> , 2018, 53, 11355-11366.	1.7	13
66	Growing Carbon Quantum Dots for Optoelectronic Devices. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2018, 34, 1250-1263.	2.2	13
67	Gold nanoclusters electrodeposited on multi-walled carbon nanotubes: enhanced electrocatalytic activity of hemoglobin. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1099-1109.	1.2	12
68	Diameter- and Length-controlled Synthesis of Ultrathin ZnS Nanowires and Their Size-Dependent UV Absorption Properties, Photocatalytical Activities and Band-Edge Energy Levels. <i>Nanomaterials</i> , 2019, 9, 220.	1.9	12
69	One-pot and high-yield preparation of ultrathin Î²-PbO nanowires and nanosheets for high-capacity positive electrodes in lead-acid batteries. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154845.	2.8	12
70	Highly Efficient and Stable Full-Color Random Lasing Emission Based on Carbon Quantum Dots. <i>Acta Chimica Sinica</i> , 2018, 76, 460.	0.5	12
71	Electrochemical detection of benzo(a)pyrene in acetonitrileâ€“water binary medium. <i>Talanta</i> , 2015, 138, 46-51.	2.9	11
72	A novel dual-emission fluorescent nanohybrid containing silica nanoparticles and gold nanoclusters for ratiometric determination of cysteine based on turn-on fluorescence strategy. <i>New Journal of Chemistry</i> , 2018, 42, 10092-10099.	1.4	11

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73	Gram-Scale Synthesis of Highly Efficient Rare-Earth-Free Red/Green/Blue Solid-State Bandgap Fluorescent Carbon Quantum Rings for White Light-Emitting Diodes. <i>Angewandte Chemie</i> , 2021, 133, 16479-16484.	1.6	11
74	Ag@SiO <sub>2</sub> nanoparticles performing as a nanoprobe for selective analysis of 2-aminoanthracene in wastewater samples via metal-enhanced fluorescence. <i>Talanta</i> , 2019, 200, 242-248.	2.9	10
75	Synergistic tuning of oxygen vacancies and d-band centers of ultrathin cobaltous dihydroxycarbonate nanowires for enhanced electrocatalytic oxygen evolution. <i>Nanoscale</i> , 2020, 12, 11735-11745.	2.8	10
76	Three-dimensional Porous Palladium Foam-like Nanostructures as Electrocatalysts for Glucose Biofuel Cells. <i>Energy Technology</i> , 2016, 4, 249-255.	1.8	6
77	Synthesis and Electrochemical Studies of Novel Electron Donors—BEDT-TTF Fused with p-Dimethoxybenzene and Hydroquinone. <i>Synthetic Communications</i> , 2000, 30, 835-848.	1.1	5
78	Light-Emitting Diodes: Bright Multicolor Bandgap Fluorescent Carbon Quantum Dots for Electroluminescent Light-Emitting Diodes ( <i>Adv. Mater.</i> 3/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	5
79	AuPt Nanoparticles Clusters on MWCNTs with Enhanced Electrocatalytic Activity for Methanol Oxidation. <i>Catalysts</i> , 2018, 8, 669.	1.6	5
80	Electrochemistry of the films of a novel class C60 covalently linked PPV derivative: Electrochemical quartz crystal microbalance study in acetonitrile solutions of tetra-n-butylammonium cations. <i>Journal of Applied Polymer Science</i> , 2002, 86, 2737-2741.	1.3	4
81	Monolayer single crystal two-dimensional quantum dots via ultrathin cutting and exfoliating. <i>Science China Materials</i> , 2020, 63, 1046-1053.	3.5	3
82	“é†œçš„ăŽŸ†ăœ“ă½ăœăœ³”æ„ă°é†ăœăœ”ç”. <i>Chinese Science Bulletin</i> , 2022, , .	0.4	1
83	Electrochemistry of Sc <sub>3</sub> N@C <sub>78</sub> embedded in didodecyldimethylammonium bromide films in aqueous solution. <i>Mikrochimica Acta</i> , 2009, 165, 45-52.	2.5	0
84	Fluorescent Graphene Quantum Dots for Bioimaging. <i>Frontiers in Nanobiomedical Research</i> , 2017, , 97-113.	0.1	0
85	Fluorescent Graphene Quantum Dots for Bioimaging. <i>Frontiers in Nanobiomedical Research</i> , 2017, , 97-113.	0.1	0