

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
19	Single small molecule-assembled nanoparticles mediate efficient oral drug delivery. <i>Nano Research</i> , 2019, 12, 2468-2476.	5.8	36
20	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
21	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
22	Investigation of Na ⁺ and K ⁺ Competitively Binding with a G-Quadruplex and Discovery of a Stable K ⁺ -Na ⁺ -Quadruplex. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5405-5411.	1.2	20
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	Carbon quantum dots: an emerging material for optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6820-6835.	2.7	225
25	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
26	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
27	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
28	Ag@SiO ₂ 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
29	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
30	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
31	Passivation of the grain boundaries of CH ₃ NH ₃ PbI ₃ using carbon quantum dots for highly efficient perovskite solar cells with excellent environmental stability. <i>Nanoscale</i> , 2019, 11, 115-124.	2.8	164
32	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
33	Highly Ordered Hierarchical Pt and PtNi Nanowire Arrays for Enhanced Electrocatalytic Activity toward Methanol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9444-9450.	4.0	54
34	Activatable Protein Nanoparticles for Targeted Delivery of Therapeutic Peptides. <i>Advanced Materials</i> , 2018, 30, 1705383.	11.1	38
35	AuPt Nanoparticles Clusters on MWCNTs with Enhanced Electrocatalytic Activity for Methanol Oxidation. <i>Catalysts</i> , 2018, 8, 669.	1.6	5
36	Insights into the Competition between K ⁺ and Pb ²⁺ Binding to a G-Quadruplex and Discovery of a Novel K ⁺ -Pb ²⁺ -Quadruplex Intermediate. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9382-9388.	1.2	13

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37	Precursor reactivity differentiation for single-step preparation of Ag ₂ Se@Ag ₂ S core-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
38	Nitrogen-Rich D-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	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
40	Engineering triangular carbon quantum dots with unprecedented narrow bandwidth emission for multicolored LEDs. <i>Nature Communications</i> , 2018, 9, 2249.	5.8	676
41	Growing Carbon Quantum Dots for Optoelectronic Devices. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2018, 34, 1250-1263.	2.2	13
42	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
43	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
44	pH-Responsive fluorescent graphene quantum dots for fluorescence-guided cancer surgery and diagnosis. <i>Nanoscale</i> , 2017, 9, 4928-4933.	2.8	122
45	Fluorescent Graphene Quantum Dots for Bioimaging. <i>Frontiers in Nanobiomedical Research</i> , 2017, , 97-113.	0.1	0
46	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
47	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
48	Exceptionally High Payload of the IR780 Iodide on Folic Acid-Functionalized Graphene Quantum Dots for Targeted Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22332-22341.	4.0	167
49	Bright Multicolor Bandgap Fluorescent Carbon Quantum Dots for Electroluminescent Light-Emitting Diodes. <i>Advanced Materials</i> , 2017, 29, 1604436.	11.1	643
50	Fluorescent Graphene Quantum Dots for Bioimaging. <i>Frontiers in Nanobiomedical Research</i> , 2017, , 97-113.	0.1	0
51	Three-dimensional Porous Palladium Foam-like Nanostructures as Electrocatalysts for Glucose Biofuel Cells. <i>Energy Technology</i> , 2016, 4, 249-255.	1.8	6
52	Graphene quantum dots as smart probes for biosensing. <i>Analytical Methods</i> , 2016, 8, 4001-4016.	1.3	116
53	Graphene-based porous carbon-Pd/SnO ₂ nanocomposites with enhanced electrocatalytic activity and durability for methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8898-8904.	5.2	36
54	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

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55	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
56	Na ⁺ -Induced Conformational Change of Pb ²⁺ -Stabilized G-Quadruplex and Its Influence on Pb ²⁺ Detection. <i>Analytical Chemistry</i> , 2016, 88, 9375-9380.	3.2	45
57	Shining carbon dots: Synthesis and biomedical and optoelectronic applications. <i>Nano Today</i> , 2016, 11, 565-586.	6.2	563
58	Aptamer-Based K ⁺ Sensor: Process of Aptamer Transforming into G-Quadruplex. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6606-6611.	1.2	22
59	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
60	Fluorescent graphene quantum dots for biosensing and bioimaging. <i>RSC Advances</i> , 2015, 5, 19773-19789.	1.7	203
61	Electrochemical synthesis of sulfur-doped graphene sheets for highly efficient oxygen reduction. <i>Science China Chemistry</i> , 2015, 58, 417-424.	4.2	19
62	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
63	Electrochemical detection of benzo(a)pyrene in acetonitrile-water binary medium. <i>Talanta</i> , 2015, 138, 46-51.	2.9	11
64	Rhodamine-Functionalized Graphene Quantum Dots for Detection of Fe ³⁺ in Cancer Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23958-23966.	4.0	163
65	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
66	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
67	Highly dispersible and charge-tunable magnetic Fe ₃ O ₄ 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
68	Sulfur-Doped Graphene Quantum Dots as a Novel Fluorescent Probe for Highly Selective and Sensitive Detection of Fe ³⁺ . <i>Analytical Chemistry</i> , 2014, 86, 10201-10207.	3.2	519
69	The uptake mechanism and biocompatibility of graphene quantum dots with human neural stem cells. <i>Nanoscale</i> , 2014, 6, 5799-5806.	2.8	171
70	A novel colorimetric potassium sensor based on the substitution of lead from G-quadruplex. <i>Analyst</i> , 2013, 138, 856-862.	1.7	50
71	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
72	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

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73	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
74	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
75	Single-Crystalline C ₆₀ 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
76	Template-free solution growth of highly regular, crystal orientation-ordered C ₆₀ nanorod bundles. <i>Journal of Materials Chemistry</i> , 2010, 20, 953-956.	6.7	21
77	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
78	Highly Selective and Sensitive Detection of Dopamine in the Presence of Excessive Ascorbic Acid Using Electrodes Modified with C ₆₀ -Functionalized Multiwalled Carbon Nanotube Films. <i>Electroanalysis</i> , 2009, 21, 2660-2666.	1.5	31
79	Electrochemistry of Sc ₃ N@C ₇₈ embedded in didodecyldimethylammonium bromide films in aqueous solution. <i>Mikrochimica Acta</i> , 2009, 165, 45-52.	2.5	0
80	CdS-Ag nanocomposite arrays: enhanced electro-chemiluminescence but quenched photoluminescence. <i>Journal of Materials Chemistry</i> , 2009, 19, 3841.	6.7	56
81	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
82	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
83	Photovoltaic Devices with Methanofullerenes as Electron Acceptors. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11509-11514.	1.2	30
84	Electrochemistry of the films of a novel class C ₆₀ 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
85	Synthesis and Electrochemical Studies of Novel Electron Donors-BEDT-TTF Fused with-Dimethoxybenzene and Hydroquinone. <i>Synthetic Communications</i> , 2000, 30, 835-848.	1.1	5