Xiaohong Li

List of Publications by Year in descending order

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67	6,588	136740	85405
papers	citations	32 h-index	71 g-index

72	72	72	6991
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Engineering triangular carbon quantum dots with unprecedented narrow bandwidth emission for multicolored LEDs. Nature Communications, 2018, 9, 2249.	5.8	676
2	Bright Multicolor Bandgap Fluorescent Carbon Quantum Dots for Electroluminescent LightâEmitting Diodes. Advanced Materials, 2017, 29, 1604436.	11.1	643
3	53% Efficient Red Emissive Carbon Quantum Dots for High Color Rendering and Stable Warm WhiteâLightâEmitting Diodes. Advanced Materials, 2017, 29, 1702910.	11.1	563
4	Sulfur-Doped Graphene Quantum Dots as a Novel Fluorescent Probe for Highly Selective and Sensitive Detection of Fe³⁺. Analytical Chemistry, 2014, 86, 10201-10207.	3.2	519
5	Electrochemical synthesis of small-sized red fluorescent graphene quantum dots as a bioimaging platform. Chemical Communications, 2015, 51, 2544-2546.	2.2	297
6	Impedimetric Immobilized DNA-Based Sensor for Simultaneous Detection of Pb²⁺, Ag⁺, and Hg²⁺. Analytical Chemistry, 2011, 83, 6896-6901.	3.2	270
7	Targeted tumour theranostics in mice via carbon quantum dots structurally mimicking large amino acids. Nature Biomedical Engineering, 2020, 4, 704-716.	11.6	243
8	Surrounding media sensitive photoluminescence of boron-doped graphene quantum dots for highly fluorescent dyed crystals, chemical sensing and bioimaging. Carbon, 2014, 70, 149-156.	5.4	232
9	Carbon quantum dots: an emerging material for optoelectronic applications. Journal of Materials Chemistry C, 2019, 7, 6820-6835.	2.7	225
10	Multicolor fluorescent graphene quantum dots colorimetrically responsive to all-pH and a wide temperature range. Nanoscale, 2015, 7, 11727-11733.	2.8	187
11	Electroluminescent Warm White LightâEmitting Diodes Based on Passivation Enabled Bright Red Bandgap Emission Carbon Quantum Dots. Advanced Science, 2019, 6, 1900397.	5.6	174
12	Exceptionally High Payload of the IR780 Iodide on Folic Acid-Functionalized Graphene Quantum Dots for Targeted Photothermal Therapy. ACS Applied Materials & Interfaces, 2017, 9, 22332-22341.	4.0	167
13	Ligand-Controlling Synthesis and Ordered Assembly of ZnS Nanorods and Nanodots. Journal of Physical Chemistry B, 2004, 108, 16002-16011.	1.2	165
14	Rhodamine-Functionalized Graphene Quantum Dots for Detection of Fe³⁺ in Cancer Stem Cells. ACS Applied Materials & Interfaces, 2015, 7, 23958-23966.	4.0	163
15	Carbon dots: a booming material for biomedical applications. Materials Chemistry Frontiers, 2020, 4, 821-836.	3.2	150
16	Red-Emissive Carbon Quantum Dots for Nuclear Drug Delivery in Cancer Stem Cells. Journal of Physical Chemistry Letters, 2020, 11, 1357-1363.	2.1	127
17	Graphene quantum dots as smart probes for biosensing. Analytical Methods, 2016, 8, 4001-4016.	1.3	116
18	Fluorescenceâ“phosphorescence dual emissive carbon nitride quantum dots show 25% white emission efficiency enabling single-component WLEDs. Chemical Science, 2019, 10, 9801-9806.	3.7	115

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19	Highly efficient and stable white LEDs based on pure red narrow bandwidth emission triangular carbon quantum dots for wide-color gamut backlight displays. Nano Research, 2019, 12, 1669-1674.	5.8	107
20	Recent advances in white light-emitting diodes of carbon quantum dots. Nanoscale, 2020, 12, 4826-4832.	2.8	98
21	Pb2+ induced DNA conformational switch from hairpin to G-quadruplex: electrochemical detection of Pb2+. Analyst, The, 2011, 136, 2367.	1.7	82
22	Gramâ€Scale Synthesis of Highly Efficient Rareâ€Earthâ€Elementâ€Free Red/Green/Blue Solidâ€State Bandgap Fluorescent Carbon Quantum Rings for White Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2021, 60, 16343-16348.	7.2	70
23	Cobalt-based metal organic frameworks: a highly active oxidase-mimicking nanozyme for fluorescence â€œturn-onâ€•assays of biothiol. Chemical Communications, 2020, 56, 659-662.	2.2	68
24	Ultrastable and Lowâ€Threshold Random Lasing from Narrowâ€Bandwidthâ€Emission Triangular Carbon Quantum Dots. Advanced Optical Materials, 2019, 7, 1801202.	3.6	67
25	Electrochemical Detection of Single-Nucleotide Mismatches Using an Electrode Microarray. Analytical Chemistry, 2006, 78, 6096-6101.	3.2	64
26	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. Chemical Communications, 2019, 55, 6531-6534.	2.2	62
27	Electrochemical controlled synthesis and characterization of well-aligned IrO2 nanotube arrays with enhanced electrocatalytic activity toward oxygen evolution reaction. Journal of Electroanalytical Chemistry, 2013, 688, 269-274.	1.9	54
28	Red Phosphorescent Carbon Quantum Dot Organic Framework-Based Electroluminescent Light-Emitting Diodes Exceeding 5% External Quantum Efficiency. Journal of the American Chemical Society, 2021, 143, 18941-18951.	6.6	54
29	A novel colorimetric potassium sensor based on the substitution of lead from G-quadruplex. Analyst, The, 2013, 138, 856-862.	1.7	50
30	Na⁺-Induced Conformational Change of Pb²⁺-Stabilized G-Quadruplex and Its Influence on Pb²⁺ Detection. Analytical Chemistry, 2016, 88, 9375-9380.	3.2	45
31	Solution Grown Single-Unit-Cell Quantum Wires Affording Self-Powered Solar-Blind UV Photodetectors with Ultrahigh Selectivity and Sensitivity. Journal of the American Chemical Society, 2019, 141, 3480-3488.	6.6	44
32	Nitrogen-Rich D-Ï€-A Structural Carbon Quantum Dots with a Bright Two-Photon Fluorescence for Deep-Tissue Imaging. ACS Applied Bio Materials, 2018, 1, 853-858.	2.3	37
33	Feâ€“N/C single-atom nanozyme-based colorimetric sensor array for discriminating multiple biological antioxidants. Analyst, The, 2021, 146, 207-212.	1.7	32
34	Carbon dots: An innovative luminescent nanomaterial. Aggregate, 2022, 3, e108.	5.2	31
35	Highly sensitive detection of Î±-naphthol based on G-DNA modified gold electrode by electrochemical impedance spectroscopy. Biosensors and Bioelectronics, 2013, 45, 46-51.	5.3	30
36	DNA Molecular Beacon-Based Plastic Biochip: A Versatile and Sensitive Scanometric Detection Platform. ACS Applied Materials & Interfaces, 2014, 6, 21788-21797.	4.0	30

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37	Applications of carbon dots on tumour theranostics. View, 2021, 2, 20200061.	2.7	30
38	Chip-Based Microelectrodes for Detection of Single-Nucleotide Mismatch. Analytical Chemistry, 2005, 77, 5766-5769.	3.2	28
39	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. Nanoscale, 2017, 9, 15044-15055.	2.8	27
40	Electrochemical detection of the amino-substituted naphthalene compounds based on intercalative interaction with hairpin DNA by electrochemical impedance spectroscopy. Biosensors and Bioelectronics, 2013, 48, 238-243.	5.3	26
41	Recent Advance in Carbon Dots: From Properties to Applications. Chinese Journal of Chemistry, 2021, 39, 1364-1388.	2.6	24
42	Glucose oxidase decorated fluorescent metalâ€“organic frameworks as biomimetic cascade nanozymes for glucose detection through the inner filter effect. Analyst, The, 2021, 146, 4188-4194.	1.7	24
43	Highly dispersible and charge-tunable magnetic Fe₃O₄ nanoparticles: facile fabrication and reversible binding to GO for efficient removal of dye pollutants. Journal of Materials Chemistry A, 2014, 2, 15763-15767.	5.2	23
44	Toward phosphorescent and delayed fluorescent carbon quantum dots for next-generation electroluminescent displays. Journal of Materials Chemistry C, 2022, 10, 2333-2348.	2.7	23
45	Exploiting the Interaction of Metal Ions and Peptide Nucleic Acidsâ^'DNA Duplexes for the Detection of a Single Nucleotide Mismatch by Electrochemical Impedance Spectroscopy. Analytical Chemistry, 2010, 82, 1166-1169.	3.2	22
46	Aptamer-Based K⁺ Sensor: Process of Aptamer Transforming into G-Quadruplex. Journal of Physical Chemistry B, 2016, 120, 6606-6611.	1.2	22
47	A series of logic gates based on electrochemical reduction of Pb2+ in self-assembled G-quadruplex on the gold electrode. Chemical Communications, 2014, 50, 2093.	2.2	20
48	Investigation of Na⁺ and K⁺ Competitively Binding with a G-Quadruplex and Discovery of a Stable K⁺â€“Na⁺-Quadruplex. Journal of Physical Chemistry B, 2019, 123, 5405-5411.	1.2	20
49	Metalâ€“organic framework assisted and in situ synthesis of hollow CdS nanostructures with highly efficient photocatalytic hydrogen evolution. Dalton Transactions, 2019, 48, 5649-5655.	1.6	20
50	Interaction between G-Quadruplex and Zinc Cationic Porphyrin: The Role of the Axial Water. Scientific Reports, 2017, 7, 10951.	1.6	18
51	Buffer species-dependent catalytic activity of Cu-Adenine as a laccase mimic for constructing sensor array to identify multiple phenols. Analytica Chimica Acta, 2022, 1204, 339725.	2.6	18
52	Exploiting the interactions of PNAâ€“DNA films with Ni2+ ions: Detection of nucleobase mismatches and electrochemical genotyping of the single-nucleotide mismatch in apoE 4 related to Alzheimer's disease. Biosensors and Bioelectronics, 2011, 27, 187-191.	5.3	16
53	Controlled calcination of ZnSe and ZnTe nanospheres to prepare visible-light catalysts with enhanced photostability and photoactivity. Journal of Materials Science, 2016, 51, 11021-11037.	1.7	16
54	Systematic truncating of aptamers to create high-performance graphene oxide (GO)-based aptasensors for the multiplex detection of mycotoxins. Analyst, The, 2019, 144, 3826-3835.	1.7	16

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55	Plasmonic Hot Hole Extraction from CuS Nanodisks Enables Significant Acceleration of Oxygen Evolution Reactions. Journal of Physical Chemistry Letters, 2021, 12, 7988-7996.	2.1	14
56	Insights into the Competition between K⁺ and Pb²⁺ Binding to a G-Quadruplex and Discovery of a Novel K⁺â€"Pb²⁺â€"Quadruplex Intermediate. Journal of Physical Chemistry B, 2018, 122, 9382-9388.	1.2	13
57	Diameter- and Length-controlled Synthesis of Ultrathin ZnS Nanowires and Their Size-Dependent UV Absorption Properties, Photocatalytical Activities and Band-Edge Energy Levels. Nanomaterials, 2019, 9, 220.	1.9	12
58	One-pot and high-yield preparation of ultrathin Î²-PbO nanowires and nanosheets for high-capacity positive electrodes in lead-acid batteries. Journal of Alloys and Compounds, 2020, 831, 154845.	2.8	12
59	Electrochemical detection of benzo(a)pyrene in acetonitrileâ€"water binary medium. Talanta, 2015, 138, 46-51.	2.9	11
60	Gramâ€Scale Synthesis of Highly Efficient Rareâ€Earthâ€Elementâ€Free Red/Green/Blue Solidâ€State Bandgap Fluorescent Carbon Quantum Rings for White Lightâ€Emitting Diodes. Angewandte Chemie, 2021, 133, 16479-16484.	1.6	11
61	A gold nanoparticle-based colorimetric probe for rapid detection of 1-hydroxypyrene in urine. Analyst, The, 2015, 140, 4662-4667.	1.7	10
62	Ag@SiO2 nanoparticles performing as a nanoprobe for selective analysis of 2-aminoanthracene in wastewater samples via metal-enhanced fluorescence. Talanta, 2019, 200, 242-248.	2.9	10
63	Thioflavin T specifically brightening â€œGuanine Islandâ€• in duplex-DNA: a novel fluorescent probe for single-nucleotide mutation. Analyst, The, 2019, 144, 2284-2290.	1.7	10
64	Synergistic tuning of oxygen vacancies and d-band centers of ultrathin cobaltous dihydroxycarbonate nanowires for enhanced electrocatalytic oxygen evolution. Nanoscale, 2020, 12, 11735-11745.	2.8	10
65	Lightâ€Emitting Diodes: Bright Multicolor Bandgap Fluorescent Carbon Quantum Dots for Electroluminescent Lightâ€Emitting Diodes (Adv. Mater. 3/2017). Advanced Materials, 2017, 29, .	11.1	5
66	A versatile fluorometric <i>in situ</i> hybridization method for the quantitation of hairpin conformations in DNA self-assembled monolayers. Analyst, The, 2020, 145, 4522-4531.	1.7	1
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