

Zhao-Sheng Qian

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97
papers

4,528
citations

35
h-index

65
g-index

105
ext. papers

5,181
ext. citations

6.5
avg, IF

5.79
L-index

#	Paper	IF	Citations
97	Highly luminescent N-doped carbon quantum dots as an effective multifunctional fluorescence sensing platform. <i>Chemistry - A European Journal</i> , 2014 , 20, 2254-63	4.8	340
96	Si-doped carbon quantum dots: a facile and general preparation strategy, bioimaging application, and multifunctional sensor. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6797-805	9.5	259
95	B-doped carbon quantum dots as a sensitive fluorescence probe for hydrogen peroxide and glucose detection. <i>Analyst, The</i> , 2014 , 139, 2322-5	5	217
94	A fluorescent nanosensor based on graphene quantum dots-aptamer probe and graphene oxide platform for detection of lead (II) ion. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 225-231	11.8	198
93	Determination of cadmium(II), cobalt(II), nickel(II), lead(II), zinc(II), and copper(II) in water samples using dual-cloud point extraction and inductively coupled plasma emission spectrometry. <i>Journal of Hazardous Materials</i> , 2012 , 239-240, 206-12	12.8	181
92	Carbon quantum dots-based recyclable real-time fluorescence assay for alkaline phosphatase with adenosine triphosphate as substrate. <i>Analytical Chemistry</i> , 2015 , 87, 2966-73	7.8	171
91	A real-time fluorescent assay for the detection of alkaline phosphatase activity based on carbon quantum dots. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 675-680	11.8	168
90	Surface functionalization of graphene quantum dots with small organic molecules from photoluminescence modulation to bioimaging applications: an experimental and theoretical investigation. <i>RSC Advances</i> , 2013 , 3, 14571	3.7	156
89	Facile synthesis of P-doped carbon quantum dots with highly efficient photoluminescence. <i>RSC Advances</i> , 2014 , 4, 5465	3.7	148
88	A universal fluorescence sensing strategy based on biocompatible graphene quantum dots and graphene oxide for the detection of DNA. <i>Nanoscale</i> , 2014 , 6, 5671-4	7.7	136
87	DNA nanosensor based on biocompatible graphene quantum dots and carbon nanotubes. <i>Biosensors and Bioelectronics</i> , 2014 , 60, 64-70	11.8	134
86	Functionalized Carbon Quantum Dots with Dopamine for Tyrosinase Activity Monitoring and Inhibitor Screening: In Vitro and Intracellular Investigation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23564-74	9.5	118
85	Luminescent Nanoswitch Based on Organic-Phase Copper Nanoclusters for Sensitive Detection of Trace Amount of Water in Organic Solvents. <i>Analytical Chemistry</i> , 2016 , 88, 7429-34	7.8	99
84	A fluorometric assay for alkaline phosphatase activity based on Cyclodextrin-modified carbon quantum dots through host-guest recognition. <i>Biosensors and Bioelectronics</i> , 2016 , 83, 274-80	11.8	99
83	Reversible Fluorescent Nanoswitch Based on Carbon Quantum Dots Nanoassembly for Real-Time Acid Phosphatase Activity Monitoring. <i>Analytical Chemistry</i> , 2015 , 87, 7332-9	7.8	91
82	Functional Carbon Quantum Dots: A Versatile Platform for Chemosensing and Biosensing. <i>Chemical Record</i> , 2018 , 18, 491-505	6.6	80
81	Reversible Luminescent Nanoswitches Based on Aggregation-Induced Emission Enhancement of Silver Nanoclusters for Luminescence Turn-on Assay of Inorganic Pyrophosphatase Activity. <i>Analytical Chemistry</i> , 2017 , 89, 4994-5002	7.8	75

80	One-pot green synthesis of highly fluorescent glutathione-stabilized copper nanoclusters for Fe ³⁺ sensing. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 292-297	8.5	71
79	Luminescent Aggregated Copper Nanoclusters Nanoswitch Controlled by Hydrophobic Interaction for Real-Time Monitoring of Acid Phosphatase Activity. <i>Analytical Chemistry</i> , 2016 , 88, 11575-11583	7.8	66
78	Fluorometric detection of cholesterol based on Cyclodextrin functionalized carbon quantum dots via competitive host-guest recognition. <i>Talanta</i> , 2017 , 167, 513-519	6.2	64
77	Fluorescent graphene-like carbon nitrides: synthesis, properties and applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8146-8160	7.1	62
76	A fluorometric assay for acetylcholinesterase activity and inhibitor screening with carbon quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 879-886	8.5	58
75	A universal fluorometric assay strategy for glycosidases based on functional carbon quantum dots: Galactosidase activity detection in vitro and in living cells. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 1971-1979	7.3	56
74	Redox-Controlled Fluorescent Nanoswitch Based on Reversible Disulfide and Its Application in Butyrylcholinesterase Activity Assay. <i>Analytical Chemistry</i> , 2018 , 90, 1643-1651	7.8	53
73	A new mitochondrion targetable fluorescent probe for carbon monoxide-specific detection and live cell imaging. <i>Chemical Communications</i> , 2019 , 55, 9444-9447	5.8	53
72	A fluorometric biosensor based on functional Au/Ag nanoclusters for real-time monitoring of tyrosinase activity. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 542-547	11.8	51
71	Fabrication of Stable and Luminescent Copper Nanocluster-Based AIE Particles and Their Application in Galactosidase Activity Assay. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32887-32893	8.5	49
70	A dual-channel fluorescent chemosensor for discriminative detection of glutathione based on functionalized carbon quantum dots. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 748-755	11.8	49
69	Intermolecular Oxidative Radical Addition to Aromatic Aldehydes: Direct Access to 1,4- and 1,5-Diketones via Silver-Catalyzed Ring-Opening Acylation of Cyclopropanols and Cyclobutanols. <i>Journal of Organic Chemistry</i> , 2018 , 83, 5665-5673	4.2	47
68	Nanosized N-doped graphene oxide with visible fluorescence in water for metal ion sensing. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17635		47
67	Synthesis of (Z)-1-thio- and (Z)-2-thio-1-alkenyl boronates via copper-catalyzed regiodivergent hydroboration of thioacetylenes: an experimental and theoretical study. <i>Journal of Organic Chemistry</i> , 2014 , 79, 1786-95	4.2	43
66	Facile synthesis of halogenated carbon quantum dots as an important intermediate for surface modification. <i>RSC Advances</i> , 2013 , 3, 9625	3.7	42
65	Density functional theory study of the aluminium(III) hydrolysis in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2396-401	3.6	39
64	Ultralong Room-Temperature Phosphorescence from Supramolecular Behavior via Intermolecular Electronic Coupling in Pure Organic Crystals. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3939-3945	6.4	39
63	Simultaneous detection of multiple DNA targets by integrating dual-color graphene quantum dot nanoprobe and carbon nanotubes. <i>Chemistry - A European Journal</i> , 2014 , 20, 16065-9	4.8	38

62	Cation-driven luminescent self-assembled dots of copper nanoclusters with aggregation-induced emission for β -galactosidase activity monitoring. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5120-5127	7.3	35
61	Hydrophobicity-guided self-assembled particles of silver nanoclusters with aggregation-induced emission and their use in sensing and bioimaging. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3927-3933	7.3	35
60	Theoretical investigation of water exchange on the nanometer-sized polyoxocation $\text{AlO}_4\text{Al}_{12}(\text{OH})_{24}(\text{H}_2\text{O})_{12}(7+)$ (Keggin- Al_{13}) in aqueous solution. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14402-3	16.4	34
59	Supramolecule density functional calculations on the water exchange of aquated $\text{Al}(\text{III})$ species in aqueous solution. <i>Chemical Communications</i> , 2008 , 3930-2	5.8	32
58	Multi-stimuli responsive copper nanoclusters with bright red luminescence for quantifying acid phosphatase activity via redox-controlled luminescence switch. <i>Analytica Chimica Acta</i> , 2017 , 984, 202-210	6.6	31
57	A fluorometric and real-time assay for β -glucosidase activity through supramolecular self-assembly and its application for inhibitor screening. <i>Sensors and Actuators B: Chemical</i> , 2017 , 245, 282-289	8.5	30
56	A reversible fluorescence nanoswitch based on carbon quantum dots nanoassembly for detection of pyrophosphate ion. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 138-145	8.5	30
55	Halogenated tetraphenylethene with enhanced aggregation-induced emission: an anomalous anti-heavy-atom effect and self-reversible mechanochromism. <i>Chemical Communications</i> , 2019 , 55, 14938-14941	5.8	29
54	Highly efficient fluorescent multi-walled carbon nanotubes functionalized with diamines and amides. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11912		28
53	A reversible fluorescence nanoswitch based on dynamic covalent $\text{B}\pi$ bonds using functional carbon quantum dots and its application for β -glucosidase activity monitoring. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2826-2832	7.1	26
52	Rational design of reversibly photochromic molecules with aggregation-induced emission by introducing photoactive thienyl and benzothienyl groups. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13197-13204	7.1	25
51	Photophysical Tuning of Organic Ionic Crystals from Ultralong Afterglow to Highly Efficient Phosphorescence by Variation of Halides. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6305-6311	6.4	25
50	Dual-colored graphene quantum dots-labeled nanoprobe/graphene oxide: functional carbon materials for respective and simultaneous detection of DNA and thrombin. <i>Nanotechnology</i> , 2014 , 25, 415501	3.4	24
49	Facile synthesis of halogenated multi-walled carbon nanotubes and their unusual photoluminescence. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22113		24
48	Simple fabrication of eptifibatide stabilized gold nanoclusters with enhanced green fluorescence as biocompatible probe for in vitro cellular imaging. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 1057-1062	8.5	22
47	Bonding-induced emission of silyl-protected copper nanoclusters for luminescence turn-on detection of trace water in organic solvents. <i>Analyst</i> , 2017 , 142, 4613-4617	5	21
46	Well dispersed single-walled carbon nanotubes with strong visible fluorescence in water for metal ions sensing. <i>Chemical Communications</i> , 2011 , 47, 7167-9	5.8	21
45	Photochromism and Fluorescence Switch of Furan-Containing Tetraarylethene Luminogens with Aggregation-Induced Emission for Photocontrolled Interface-Involved Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42410-42419	9.5	21

44	The visible photoluminescence mechanism of oxidized multi-walled carbon nanotubes: an experimental and theoretical investigation. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 307-314	7.1	20
43	Assessment of the accuracy of theoretical methods for calculating (27)Al nuclear magnetic resonance shielding tensors of aquated aluminum species. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 5138-43	2.8	20
42	Reversible Switching between Phosphorescence and Fluorescence in a Unimolecular System Controlled by External Stimuli. <i>Chemistry - A European Journal</i> , 2018 , 24, 12773-12778	4.8	19
41	Rational Design of Dual-State Emission Luminogens with Solvatochromism by Combining a Partially Shared Donor-Acceptor Pattern and Twisted Structures. <i>Chemistry - A European Journal</i> , 2019 , 25, 15983-4	4.8	19
40	Theoretical investigation on the dimerization of the deprotonated aquo ion of Al(III) in water. <i>Dalton Transactions</i> , 2009 , 521-9	4.3	18
39	Redox-Triggered Bonding-Induced Emission of Thiol-Functionalized Gold Nanoclusters for Luminescence Turn-On Detection of Molecular Oxygen. <i>ACS Sensors</i> , 2017 , 2, 1692-1699	9.2	17
38	Anion-regulated transient and persistent phosphorescence and size-dependent ultralong afterglow of organic ionic crystals. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14535-14542	7.1	17
37	An aggregation-induced phosphorescence probe for calcium ion-specific detection and live-cell imaging in <i>Arabidopsis thaliana</i> . <i>Chemical Communications</i> , 2019 , 55, 4841-4844	5.8	16
36	Theoretical investigation of dehydration of aquated Al(OH) ₂ ⁺ species in aqueous solution. <i>Dalton Transactions</i> , 2009 , 1554-8	4.3	16
35	Theoretical exploration of the water exchange mechanism of the polyoxocation GaO ₄ Al ₁₂ (OH) ₂₄ (H ₂ O) ₁₂₇ ⁺ in aqueous solution. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 1588-1596	5.5	16
34	Photophysical Switching between Aggregation-Induced Phosphorescence and Dual-State Emission by Isomeric Substitution. <i>Chemistry - A European Journal</i> , 2020 , 26, 3733-3737	4.8	15
33	Density functional theory study and kinetic analysis of the formation mechanism of Al ₃₀ O ₈ (OH) ₅₆ (H ₂ O) ₂₆₁₈ ⁺ (Al ₃₀) in aqueous solution. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 1220-1229	5.5	15
32	Density functional investigation of the water exchange reaction on the gibbsite surface. <i>Environmental Science & Technology</i> , 2009 , 43, 9281-6	10.3	15
31	Density functional theory study on aqueous aluminum-fluoride complexes: exploration of the intrinsic relationship between water-exchange rate constants and structural parameters for monomer aluminum complexes. <i>Environmental Science & Technology</i> , 2011 , 45, 288-93	10.3	14
30	Clustering-Triggered Ultralong Room-Temperature Phosphorescence of Organic Crystals through Halogen-Mediated Molecular Assembly. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4962-4969	6.4	12
29	DFT study on the interaction between monomeric aluminium and chloride ion in aqueous solution. <i>Dalton Transactions</i> , 2011 , 40, 5052-8	4.3	12
28	Density functional studies of the structural characteristics, ²⁷ Al NMR chemical shifts and water-exchange reactions of Al ₃₀ O ₈ (OH) ₅₆ (H ₂ O) ₂₆₁₈ ⁺ (Al ₃₀) in aqueous solution. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 1230-1237	5.5	11
27	Density functional study of the water exchange reaction of the polyoxocation GeO ₄ Al ₁₂ (OH) ₂₄ (H ₂ O) ₁₂ (8+) (K-GeAl ₁₂) in aqueous solution. <i>Dalton Transactions</i> , 2009 , 8013-7	4.3	11

26	Thiol-triggered disaggregation-induced emission controlled by competitive coordination for acetylcholinesterase monitoring and inhibitor screening. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 22-28	8.5	11
25	Synthesis and Functionalization of Stable and Bright Copper Nanoclusters by In Situ Generation of Silica Shells for Bioimaging and Biosensing. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5673-5681	5.6	11
24	DFT study on the mechanism for the substitution of F(-) into Al(III) complexes in aqueous solution. <i>Dalton Transactions</i> , 2011 , 40, 567-72	4.3	10
23	A water-soluble molecular probe with aggregation-induced emission for discriminative detection of Al and Pb and imaging in seedling root of Arabidopsis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 223, 117335	4.4	9
22	Multicolour fluorescent graphene oxide by cutting carbon nanotubes upon oxidation. <i>CrystEngComm</i> , 2012 , 14, 4976	3.3	9
21	Thiol-ene click reaction-induced fluorescence enhancement by altering the radiative rate for assaying butyrylcholinesterase activity. <i>Analyst, The</i> , 2019 , 144, 559-566	5	8
20	A simple and efficient phosphorescent probe for iodide-specific detection based on crystallization-induced phosphorescence of organic ionic crystals. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 43-47	7.1	8
19	Coordinate bonding-induced emission of gold-glutathione complex for sensitive detection of aluminum species. <i>Sensors and Actuators B: Chemical</i> , 2018 , 272, 1-7	8.5	8
18	A phosphorescence "turn-on" probe for the detection and imaging of Al based on aggregation-induced emission. <i>Talanta</i> , 2020 , 219, 121298	6.2	6
17	Phenylsulfonic acid functionalized carbon quantum dots based biosensor for acetylcholinesterase activity monitoring and inhibitor screening. <i>RSC Advances</i> , 2016 , 6, 105454-105460	3.7	6
16	Achieving highly efficient aggregation-induced emission, reversible and irreversible photochromism by heavy halogen-regulated photophysics and D-A molecular pattern-controlled photochemistry of through-space conjugated luminogens. <i>Chemical Science</i> , 2021 , 12, 10710-10723	9.4	6
15	Removal of Cd(II) from Aqueous by Adsorption onto Mesoporous Ti-MCM-48. <i>Procedia Environmental Sciences</i> , 2011 , 10, 2491-2497		5
14	Tuning the energy barrier of water exchange reactions on Al(III) by interaction with the single-walled carbon nanotubes. <i>Dalton Transactions</i> , 2011 , 40, 4183-9	4.3	5
13	Theoretical investigation of formation mechanism of bipyridyl molecule on Ni(111) surface: implication for synthesis of N-doped graphene from pyridine. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 6053-8	3.6	5
12	Endowing nitro-compounds with bright and stimuli-responsive luminescence based on propeller-like AIEgens. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 12177-12183	7.1	5
11	Viscosity-sensitive thiolated gold nanoclusters with diffusion-controlled emission for intracellular viscosity imaging. <i>Analyst, The</i> , 2019 , 144, 4483-4487	5	4
10	Theoretical investigation of the dissociative interchange (Id) mechanism for water exchange on magnesium(II) in aqueous solution. <i>Inorganica Chimica Acta</i> , 2010 , 363, 3627-3631	2.7	4
9	Breaking Classic Heavy-Atom Effect to Achieve Heavy-Atom-Induced Dramatic Emission Enhancement of Silole-Based AIEgens with Through-Bond and Through-Space Conjugation. <i>Advanced Optical Materials</i> , 2010 , 2, 101228	8.1	4

8	Unusual visible luminescence of aluminium polyoxocations in aqueous solution. <i>Chemical Communications</i> , 2011 , 47, 12652-4	5.8	3
7	Visible photoluminescence of polyoxoniobates in aqueous solution and their high electrocatalytic activities for water oxidation. <i>Open Journal of Inorganic Chemistry</i> , 2013 , 03, 59-69	0.2	3
6	Wavelength-dependent multicolor photochromism and fluorescence switching based on an AIE-active skeleton by regulating the conjugation of the photoactive unit. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 8249-8257	7.1	3
5	Novel Aggregation-Enhanced PEC Photosensitizer Based on Electrostatic Linkage of Ionic Liquid with Protoporphyrin IX for Ultrasensitive Detection of Molt-4 Cells.. <i>Analytical Chemistry</i> , 2022 ,	7.8	3
4	Nanoliposomal Ratiometric Fluorescent Probe toward ONOO Flux.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 2080-2088	4.1	2
3	Study on adsorption of Co(II) and Ni(II) onto mesoporous Ti-containing MCM-48. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 6796-803	1.3	1
2	Molecular engineering and biomedical applications of ultra-sensitive fluorescent probe for Ag+. <i>Chinese Chemical Letters</i> , 2021 , 32, 3066-3066	8.1	1
1	Rational design of state-depending photoactivatable and photoconvertible fluorescent AIEgens through a rapid photocyclodehydrogenation reaction. <i>Dyes and Pigments</i> , 2022 , 201, 110235	4.6	1