Zhao-Sheng Qian

List of Publications by Year in Descending Order

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	Novel Aggregation-Enhanced PEC Photosensitizer Based on Electrostatic Linkage of Ionic Liquid with Protoporphyrin IX for Ultrasensitive Detection of Molt-4 Cells.. *Analytical Chemistry*, **2022**,	7.8	3
96	Rational design of state-depending photoactivatable and photoconvertible fluorescent AIEgens through a rapid photocyclodehydrogenation reaction. *Dyes and Pigments*, **2022**, 201, 110235	4.6	1
95	Molecular engineering and biomedical applications of ultra-sensitive fluorescent probe for Ag+. *Chinese Chemical Letters*, **2021**, 32, 3066-3066	8.1	1
94	Nanoliposomal Ratiometric Fluorescent Probe toward ONOO Flux.. *ACS Applied Bio Materials*, **2021**, 4, 2080-2088	4.1	2
93	Endowing nitro-compounds with bright and stimuli-responsive luminescence based on propeller-like AIEgens. *Journal of Materials Chemistry C*, **2021**, 9, 12177-12183	7.1	5
92	Wavelength-dependent multicolor photochromism and fluorescence switching based on an AIE-active skeleton by regulating the conjugation of the photoactive unit. *Journal of Materials Chemistry C*, **2021**, 9, 8249-8257	7.1	3
91	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. *Chemical Science*, **2021**, 12, 10710-10723	9.4	6
90	A phosphorescence "turn-on" probe for the detection and imaging of Al based on aggregation-induced emission. *Talanta*, **2020**, 219, 121298	6.2	6
89	Clustering-Triggered Ultralong Room-Temperature Phosphorescence of Organic Crystals through Halogen-Mediated Molecular Assembly. *Journal of Physical Chemistry Letters*, **2020**, 11, 4962-4969	6.4	12
88	Rational design of reversibly photochromic molecules with aggregation-induced emission by introducing photoactive thienyl and benzothienyl groups. *Journal of Materials Chemistry C*, **2020**, 8, 13197-13204	7.1	25
87	Photophysical Switching between Aggregation-Induced Phosphorescence and Dual-State Emission by Isomeric Substitution. *Chemistry - A European Journal*, **2020**, 26, 3733-3737	4.8	15
86	Photochromism and Fluorescence Switch of Furan-Containing Tetraarylethene Luminogens with Aggregation-Induced Emission for Photocontrolled Interface-Involved Applications. *ACS Applied Materials & Interfaces*, **2020**, 12, 42410-42419	9.5	21
85	Thiol-ene click reaction-induced fluorescence enhancement by altering the radiative rate for assaying butyrylcholinesterase activity. *Analyst, The*, **2019**, 144, 559-566	5	8
84	An aggregation-induced phosphorescence probe for calcium ion-specific detection and live-cell imaging in Arabidopsis thaliana. *Chemical Communications*, **2019**, 55, 4841-4844	5.8	16
83	A water-soluble molecular probe with aggregation-induced emission for discriminative detection of Al and Pb and imaging in seedling root of Arabidopsis. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 223, 117335	4.4	9
82	Viscosity-sensitive thiolated gold nanoclusters with diffusion-controlled emission for intracellular viscosity imaging. *Analyst, The*, **2019**, 144, 4483-4487	5	4
81	A new mitochondrion targetable fluorescent probe for carbon monoxide-specific detection and live cell imaging. *Chemical Communications*, **2019**, 55, 9444-9447	5.8	53

80	Rational Design of Dual-State Emission Luminogens with Solvatochromism by Combining a Partially Shared Donor-Acceptor Pattern and Twisted Structures. *Chemistry - A European Journal*, **2019**, 25, 15983	4.8	19
79	A simple and efficient phosphorescent probe for iodide-specific detection based on crystallization-induced phosphorescence of organic ionic crystals. *Journal of Materials Chemistry C*, **2019**, 7, 43-47	7.1	8
78	Halogenated tetraphenylethene with enhanced aggregation-induced emission: an anomalous anti-heavy-atom effect and self-reversible mechanochromism. *Chemical Communications*, **2019**, 55, 14938-14941	5.8	29
77	Anion-regulated transient and persistent phosphorescence and size-dependent ultralong afterglow of organic ionic crystals. *Journal of Materials Chemistry C*, **2019**, 7, 14535-14542	7.1	17
76	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. *Journal of Organic Chemistry*, **2018**, 83, 5665-5673	4.2	47
75	Redox-Controlled Fluorescent Nanoswitch Based on Reversible Disulfide and Its Application in Butyrylcholinesterase Activity Assay. *Analytical Chemistry*, **2018**, 90, 1643-1651	7.8	53
74	Hydrophobicity-guided self-assembled particles of silver nanoclusters with aggregation-induced emission and their use in sensing and bioimaging. *Journal of Materials Chemistry B*, **2018**, 6, 3927-3933	7.3	35
73	Reversible Switching between Phosphorescence and Fluorescence in a Unimolecular System Controlled by External Stimuli. *Chemistry - A European Journal*, **2018**, 24, 12773-12778	4.8	19
72	Functional Carbon Quantum Dots: A Versatile Platform for Chemosensing and Biosensing. *Chemical Record*, **2018**, 18, 491-505	6.6	80
71	Thiol-triggered disaggregation-induced emission controlled by competitive coordination for acetylcholinesterase monitoring and inhibitor screening. *Sensors and Actuators B: Chemical*, **2018**, 255, 22-28	8.5	11
70	Synthesis and Functionalization of Stable and Bright Copper Nanoclusters by In Situ Generation of Silica Shells for Bioimaging and Biosensing. *ACS Applied Nano Materials*, **2018**, 1, 5673-5681	5.6	11
69	Photophysical Tuning of Organic Ionic Crystals from Ultralong Afterglow to Highly Efficient Phosphorescence by Variation of Halides. *Journal of Physical Chemistry Letters*, **2018**, 9, 6305-6311	6.4	25
68	Coordinate bonding-induced emission of gold-glutathione complex for sensitive detection of aluminum species. *Sensors and Actuators B: Chemical*, **2018**, 272, 1-7	8.5	8
67	Ultralong Room-Temperature Phosphorescence from Supramolecular Behavior via Intermolecular Electronic Coupling in Pure Organic Crystals. *Journal of Physical Chemistry Letters*, **2018**, 9, 3939-3945	6.4	39
66	A fluorometric and real-time assay for β-glucosidase activity through supramolecular self-assembly and its application for inhibitor screening. *Sensors and Actuators B: Chemical*, **2017**, 245, 282-289	8.5	30
65	A reversible fluorescence nanoswitch based on dynamic covalent B□O bonds using functional carbon quantum dots and its application for β-glucosidase activity monitoring. *Journal of Materials Chemistry C*, **2017**, 5, 2826-2832	7.1	26
64	Fluorometric detection of cholesterol based on β-cyclodextrin functionalized carbon quantum dots via competitive host-guest recognition. *Talanta*, **2017**, 167, 513-519	6.2	64
63	A universal fluorometric assay strategy for glycosidases based on functional carbon quantum dots: β-galactosidase activity detection in vitro and in living cells. *Journal of Materials Chemistry B*, **2017**, 5, 1971-1979	7.3	56

62	Cation-driven luminescent self-assembled dots of copper nanoclusters with aggregation-induced emission for galactosidase activity monitoring. *Journal of Materials Chemistry B*, **2017**, 5, 5120-5127	7.3	35
61	Reversible Luminescent Nanoswitches Based on Aggregation-Induced Emission Enhancement of Silver Nanoclusters for Luminescence Turn-on Assay of Inorganic Pyrophosphatase Activity. *Analytical Chemistry*, **2017**, 89, 4994-5002	7.8	75
60	Bonding-induced emission of silyl-protected copper nanoclusters for luminescence turn-on detection of trace water in organic solvents. *Analyst, The*, **2017**, 142, 4613-4617	5	21
59	Fabrication of Stable and Luminescent Copper Nanocluster-Based AIE Particles and Their Application in Galactosidase Activity Assay. *ACS Applied Materials & Interfaces*, **2017**, 9, 32887-32893	8.5	49
58	Redox-Triggered Bonding-Induced Emission of Thiol-Functionalized Gold Nanoclusters for Luminescence Turn-On Detection of Molecular Oxygen. *ACS Sensors*, **2017**, 2, 1692-1699	9.2	17
57	Multi-stimuli responsive copper nanoclusters with bright red luminescence for quantifying acid phosphatase activity via redox-controlled luminescence switch. *Analytica Chimica Acta*, **2017**, 984, 202-210	6.6	31
56	One-pot green synthesis of highly fluorescent glutathione-stabilized copper nanoclusters for Fe3+ sensing. *Sensors and Actuators B: Chemical*, **2017**, 241, 292-297	8.5	71
55	Simple fabrication of eptifibatide stabilized gold nanoclusters with enhanced green fluorescence as biocompatible probe for in vitro cellular imaging. *Sensors and Actuators B: Chemical*, **2017**, 241, 1057-1062	8.5	22
54	A fluorometric assay for acetylcholinesterase activity and inhibitor screening with carbon quantum dots. *Sensors and Actuators B: Chemical*, **2016**, 222, 879-886	8.5	58
53	Phenylsulfonic acid functionalized carbon quantum dots based biosensor for acetylcholinesterase activity monitoring and inhibitor screening. *RSC Advances*, **2016**, 6, 105454-105460	3.7	6
52	Luminescent Aggregated Copper Nanoclusters Nanoswitch Controlled by Hydrophobic Interaction for Real-Time Monitoring of Acid Phosphatase Activity. *Analytical Chemistry*, **2016**, 88, 11575-11583	7.8	66
51	Luminescent Nanoswitch Based on Organic-Phase Copper Nanoclusters for Sensitive Detection of Trace Amount of Water in Organic Solvents. *Analytical Chemistry*, **2016**, 88, 7429-34	7.8	99
50	A fluorometric assay for alkaline phosphatase activity based on cyclodextrin-modified carbon quantum dots through host-guest recognition. *Biosensors and Bioelectronics*, **2016**, 83, 274-80	11.8	99
49	A dual-channel fluorescent chemosensor for discriminative detection of glutathione based on functionalized carbon quantum dots. *Biosensors and Bioelectronics*, **2016**, 86, 748-755	11.8	49
48	Fluorescent graphene-like carbon nitrides: synthesis, properties and applications. *Journal of Materials Chemistry C*, **2016**, 4, 8146-8160	7.1	62
47	A fluorometric biosensor based on functional Au/Ag nanoclusters for real-time monitoring of tyrosinase activity. *Biosensors and Bioelectronics*, **2016**, 86, 542-547	11.8	51
46	Reversible Fluorescent Nanoswitch Based on Carbon Quantum Dots Nanoassembly for Real-Time Acid Phosphatase Activity Monitoring. *Analytical Chemistry*, **2015**, 87, 7332-9	7.8	91
45	Functionalized Carbon Quantum Dots with Dopamine for Tyrosinase Activity Monitoring and Inhibitor Screening: In Vitro and Intracellular Investigation. *ACS Applied Materials & Interfaces*, **2015**, 7, 23564-74	9.5	118

44	A reversible fluorescence nanoswitch based on carbon quantum dots nanoassembly for detection of pyrophosphate ion. *Sensors and Actuators B: Chemical*, **2015**, 220, 138-145	8.5	30
43	A fluorescent nanosensor based on graphene quantum dots-aptamer probe and graphene oxide platform for detection of lead (II) ion. *Biosensors and Bioelectronics*, **2015**, 68, 225-231	11.8	198
42	A real-time fluorescent assay for the detection of alkaline phosphatase activity based on carbon quantum dots. *Biosensors and Bioelectronics*, **2015**, 68, 675-680	11.8	168
41	Carbon quantum dots-based recyclable real-time fluorescence assay for alkaline phosphatase with adenosine triphosphate as substrate. *Analytical Chemistry*, **2015**, 87, 2966-73	7.8	171
40	Synthesis of (Z)-1-thio- and (Z)-2-thio-1-alkenyl boronates via copper-catalyzed regiodivergent hydroboration of thioacetylenes: an experimental and theoretical study. *Journal of Organic Chemistry*, **2014**, 79, 1786-95	4.2	43
39	Highly luminescent N-doped carbon quantum dots as an effective multifunctional fluorescence sensing platform. *Chemistry - A European Journal*, **2014**, 20, 2254-63	4.8	340
38	B-doped carbon quantum dots as a sensitive fluorescence probe for hydrogen peroxide and glucose detection. *Analyst, The*, **2014**, 139, 2322-5	5	217
37	DNA nanosensor based on biocompatible graphene quantum dots and carbon nanotubes. *Biosensors and Bioelectronics*, **2014**, 60, 64-70	11.8	134
36	Si-doped carbon quantum dots: a facile and general preparation strategy, bioimaging application, and multifunctional sensor. *ACS Applied Materials & Interfaces*, **2014**, 6, 6797-805	9.5	259
35	Facile synthesis of P-doped carbon quantum dots with highly efficient photoluminescence. *RSC Advances*, **2014**, 4, 5465	3.7	148
34	Dual-colored graphene quantum dots-labeled nanoprobes/graphene oxide: functional carbon materials for respective and simultaneous detection of DNA and thrombin. *Nanotechnology*, **2014**, 25, 415501	3.4	24
33	A universal fluorescence sensing strategy based on biocompatible graphene quantum dots and graphene oxide for the detection of DNA. *Nanoscale*, **2014**, 6, 5671-4	7.7	136
32	Simultaneous detection of multiple DNA targets by integrating dual-color graphene quantum dot nanoprobes and carbon nanotubes. *Chemistry - A European Journal*, **2014**, 20, 16065-9	4.8	38
31	Surface functionalization of graphene quantum dots with small organic molecules from photoluminescence modulation to bioimaging applications: an experimental and theoretical investigation. *RSC Advances*, **2013**, 3, 14571	3.7	156
30	Facile synthesis of halogenated carbon quantum dots as an important intermediate for surface modification. *RSC Advances*, **2013**, 3, 9625	3.7	42
29	The visible photoluminescence mechanism of oxidized multi-walled carbon nanotubes: an experimental and theoretical investigation. *Journal of Materials Chemistry C*, **2013**, 1, 307-314	7.1	20
28	Visible photoluminescence of polyoxoniobates in aqueous solution and their high electrocatalytic activities for water oxidation. *Open Journal of Inorganic Chemistry*, **2013**, 03, 59-69	0.2	3
27	Facile synthesis of halogenated multi-walled carbon nanotubes and their unusual photoluminescence. *Journal of Materials Chemistry*, **2012**, 22, 22113		24

26	Multicolour fluorescent graphene oxide by cutting carbon nanotubes upon oxidation. *CrystEngComm*, **2012**, 14, 4976	3.3	9
25	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. *Journal of Hazardous Materials*, **2012**, 239-240, 206-12	12.8	181
24	Highly efficient fluorescent multi-walled carbon nanotubes functionalized with diamines and amides. *Journal of Materials Chemistry*, **2012**, 22, 11912		28
23	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. *Environmental Science & Technology*, **2011**, 45, 288-93	10.3	14
22	Well dispersed single-walled carbon nanotubes with strong visible fluorescence in water for metal ions sensing. *Chemical Communications*, **2011**, 47, 7167-9	5.8	21
21	Removal of Cd(II) from Aqueous by Adsorption onto Mesoporous Ti-MCM-48. *Procedia Environmental Sciences*, **2011**, 10, 2491-2497		5
20	Study on adsorption of Co(II) and Ni(II) onto mesoporous Ti-containing MCM-48. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 6796-803	1.3	1
19	Nanosized N-doped graphene oxide with visible fluorescence in water for metal ion sensing. *Journal of Materials Chemistry*, **2011**, 21, 17635		47
18	DFT study on the mechanism for the substitution of F(-) into Al(III) complexes in aqueous solution. *Dalton Transactions*, **2011**, 40, 567-72	4.3	10
17	Tuning the energy barrier of water exchange reactions on Al(III) by interaction with the single-walled carbon nanotubes. *Dalton Transactions*, **2011**, 40, 4183-9	4.3	5
16	DFT study on the interaction between monomeric aluminium and chloride ion in aqueous solution. *Dalton Transactions*, **2011**, 40, 5052-8	4.3	12
15	Theoretical investigation of formation mechanism of bipyridyl molecule on Ni(111) surface: implication for synthesis of N-doped graphene from pyridine. *Physical Chemistry Chemical Physics*, **2011**, 13, 6053-8	3.6	5
14	Unusual visible luminescence of aluminium polyoxocations in aqueous solution. *Chemical Communications*, **2011**, 47, 12652-4	5.8	3
13	Density functional theory study and kinetic analysis of the formation mechanism of Al30O8(OH)56(H2O)2618+ (Al30) in aqueous solution. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 1220-1229	5.5	15
12	Density functional studies of the structural characteristics, 27Al NMR chemical shifts and water-exchange reactions of Al30O8(OH)56(H2O)2618+(Al30) in aqueous solution. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 1230-1237	5.5	11
11	Theoretical investigation of the dissociative interchange (Id) mechanism for water exchange on magnesium(II) in aqueous solution. *Inorganica Chimica Acta*, **2010**, 363, 3627-3631	2.7	4
10	Density functional investigation of the water exchange reaction on the gibbsite surface. *Environmental Science & Technology*, **2009**, 43, 9281-6	10.3	15
9	Theoretical investigation of dehydration of aquated Al(OH)2+ species in aqueous solution. *Dalton Transactions*, **2009**, 1554-8	4.3	16

8	Theoretical exploration of the water exchange mechanism of the polyoxocation GaO4Al12(OH)24(H2O)127+ in aqueous solution. *Geochimica Et Cosmochimica Acta*, **2009**, 73, 1588-1596	5.5	16
7	Assessment of the accuracy of theoretical methods for calculating (27)Al nuclear magnetic resonance shielding tensors of aquated aluminum species. *Journal of Physical Chemistry A*, **2009**, 113, 5138-43	2.8	20
6	Theoretical investigation on the dimerization of the deprotonated aquo ion of Al(III) in water. *Dalton Transactions*, **2009**, 521-9	4.3	18
5	Density functional study of the water exchange reaction of the polyoxocation GeO4Al12(OH)24(H2O)12(8+) (K-GeAl12) in aqueous solution. *Dalton Transactions*, **2009**, 8013-7	4.3	11
4	Density functional theory study of the aluminium(III) hydrolysis in aqueous solution. *Physical Chemistry Chemical Physics*, **2009**, 11, 2396-401	3.6	39
3	Theoretical investigation of water exchange on the nanometer-sized polyoxocation AlO4Al12(OH)24(H2O)12(7+) (Keggin-Al13) in aqueous solution. *Journal of the American Chemical Society*, **2008**, 130, 14402-3	16.4	34
2	Supermolecule density functional calculations on the water exchange of aquated Al(III) species in aqueous solution. *Chemical Communications*, **2008**, 3930-2	5.8	32
1	Breaking Classic Heavy-Atom Effect to Achieve Heavy-Atom-Induced Dramatic Emission Enhancement of Silole-Based AIEgens with Through-Bond and Through-Space Conjugation. *Advanced Optical Materials*,2101228	8.1	4