

# Bin Zhang

## List of Publications by Year in descending order

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70  
papers

2,839  
citations

159585

30  
h-index

175258

52  
g-index

70  
all docs

70  
docs citations

70  
times ranked

3594  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selectively Lighting Up Singlet Oxygen via Aggregation-Induced Electrochemiluminescence Energy Transfer. <i>Analytical Chemistry</i> , 2022, 94, 3718-3726.	6.5	11
2	Glow and Flash Adjustable Chemiluminescence with Tunable Waveband from the Same $\text{CuInS}_2$ @ZnS Nanocrystal Luminophore. <i>Analytical Chemistry</i> , 2022, 94, 6902-6908.	6.5	4
3	A General Route for Chemiluminescence of n-Type Au Nanocrystals. <i>Analytical Chemistry</i> , 2022, 94, 8811-8817.	6.5	12
4	Use of Triangular Silver Nanoplates as Low Potential Redox Mediators for Electrochemical Sensing. <i>Analytical Chemistry</i> , 2021, 93, 3295-3300.	6.5	12
5	Enhanced Near-Infrared Electrochemiluminescence from Ternary $\text{AgInS}$ to Multinary $\text{AgGaInS}$ Nanocrystals via Doping-in-Growth and Its Immunosensing Applications. <i>Analytical Chemistry</i> , 2021, 93, 2160-2165.	6.5	30
6	Fluorescence resonance energy transfer between $\text{NH}_2$ - $\text{NaYF}_4:\text{Yb,Er}/\text{NaYF}_4/\text{SiO}_2$ upconversion nanoparticles and gold nanoparticles for the detection of glutathione and cadmium ions. <i>Talanta</i> , 2020, 207, 120294.	5.5	34
7	Red-shifted electrochemiluminescence of CdTe nanocrystals via $\text{Co}^{2+}$ -Doping and its spectral sensing application in near-infrared region. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111880.	10.1	36
8	Synthesis and characterization of size controlled alloy nanoparticles. <i>Physical Sciences Reviews</i> , 2020, 5, .	0.8	1
9	Enhancing aqueous stability and radiative-charge-transfer efficiency of $\text{CsPbBr}_3$ perovskite nanocrystals via conductive silica gel coating. <i>Electrochimica Acta</i> , 2020, 330, 135332.	5.2	15
10	Near-Infrared Electrochemiluminescence Immunoassay with Biocompatible Au Nanoclusters as Tags. <i>Analytical Chemistry</i> , 2020, 92, 7581-7587.	6.5	82
11	Electrochemically Lighting Up Luminophores at Similar Low Triggering Potentials with Mechanistic Insights. <i>Analytical Chemistry</i> , 2020, 92, 6144-6149.	6.5	28
12	Enhanced aqueous stability and radiative-charge-transfer of $\text{CsPbBr}_3/\text{Ag}_2\text{S}$ perovskite nanocrystal hybrids. <i>Journal of Electroanalytical Chemistry</i> , 2020, 858, 113835.	3.8	12
13	Tunable electrochemiluminescence properties of $\text{CsPbBr}_3$ perovskite nanocrystals using mixed-monovalent cations. <i>New Journal of Chemistry</i> , 2020, 44, 3323-3329.	2.8	4
14	Promising Electrochemiluminescence from $\text{CuInS}_2$ /ZnS Nanocrystals/Hydrazine via Internal $\text{Cu(I)}/\text{Cu(II)}$ Couple Cycling. <i>Analytical Chemistry</i> , 2019, 91, 10221-10226.	6.5	26
15	Promising Mercaptobenzoic Acid-Bridged Charge Transfer for Electrochemiluminescence from $\text{CuInS}_2$ @ZnS Nanocrystals via Internal $\text{Cu}^+/\text{Cu}^{2+}$ Couple Cycling. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5408-5413.	4.6	22
16	Efficient and Monochromatic Electrochemiluminescence of Aqueous-Soluble Au Nanoclusters via Host-Guest Recognition. <i>Angewandte Chemie</i> , 2019, 131, 6975-6979.	2.0	19
17	Efficient and Monochromatic Electrochemiluminescence of Aqueous-Soluble Au Nanoclusters via Host-Guest Recognition. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6901-6905.	13.8	112
18	Ultrasensitive Electrochemiluminescent Sensor for MicroRNA with Multinary $\text{ZnAgInS}/\text{ZnS}$ Nanocrystals as Tags. <i>Analytical Chemistry</i> , 2019, 91, 3754-3758.	6.5	39

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19	Enhanced Charge Injection and Recombination of CsPbBr <sub>3</sub> Perovskite Nanocrystals upon Internal Heterovalent Substitution. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29916-29921.	3.1	4
20	Dichroic Mirror-Assisted Electrochemiluminescent Assay for Simultaneously Detecting Wild-type and Mutant p53 with Photomultiplier Tubes. <i>Analytical Chemistry</i> , 2018, 90, 5474-5480.	6.5	31
21	Promising Anodic Electrochemiluminescence of Nontoxic Core/Shell CuInS <sub>2</sub> /ZnS Nanocrystals in Aqueous Medium and Its Biosensing Potential. <i>Analytical Chemistry</i> , 2018, 90, 3563-3569.	6.5	63
22	Dual-wavebands-resolved electrochemiluminescence multiplexing immunoassay with dichroic mirror assistant photomultiplier-tubes as detectors. <i>Biosensors and Bioelectronics</i> , 2018, 115, 77-82.	10.1	27
23	Tunable Electron-Injection Channels of Heterostructured ZnSe@CdTe Nanocrystals for Surface-Chemistry-Involved Electrochemiluminescence. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6089-6095.	4.6	16
24	Electrochemical-Signal-Amplification Strategy for an Electrochemiluminescence Immunoassay with g-C <sub>3</sub> N <sub>4</sub> as Tags. <i>Analytical Chemistry</i> , 2018, 90, 12930-12936.	6.5	75
25	Spectrum-Resolved Triplex-Color Electrochemiluminescence Multiplexing Immunoassay with Highly-Passivated Nanocrystals as Tags. <i>Analytical Chemistry</i> , 2018, 90, 12361-12365.	6.5	57
26	Spectrum-Based Electrochemiluminescence Immunoassay for Selectively Determining CA125 in Greenish Waveband. <i>ChemElectroChem</i> , 2017, 4, 1714-1718.	3.4	17
27	Electrochemistry and Electrochemiluminescence of Organometal Halide Perovskite Nanocrystals in Aqueous Medium. <i>Journal of the American Chemical Society</i> , 2017, 139, 8772-8776.	13.7	185
28	Spectrum-based and color-selective electrochemiluminescence immunoassay for determining human prostate specific antigen in near-infrared region. <i>Talanta</i> , 2017, 165, 117-121.	5.5	22
29	Hydrogen Peroxide Involved Anodic Charge Transfer and Electrochemiluminescence of All-Inorganic Halide Perovskite CsPbBr <sub>3</sub> Nanocrystals in an Aqueous Medium. <i>Inorganic Chemistry</i> , 2017, 56, 10135-10138.	4.0	34
30	Determining the Cytotoxicity of Rare Earth Element Nanoparticles in Macrophages and the Involvement of Membrane Damage. <i>Environmental Science &amp; Technology</i> , 2017, 51, 13938-13948.	10.0	30
31	Molecular-Counting-Free and Electrochemiluminescent Single-Molecule Immunoassay with Dual-Stabilizers-Capped CdSe Nanocrystals as Labels. <i>Analytical Chemistry</i> , 2016, 88, 5482-5488.	6.5	80
32	Monochromatic and electrochemically switchable electrochemiluminescence of perovskite CsPbBr <sub>3</sub> nanocrystals. <i>Nanoscale</i> , 2016, 8, 18734-18739.	5.6	58
33	Spectrum-Based Electrochemiluminescent Immunoassay with Ternary CdZnSe Nanocrystals as Labels. <i>Analytical Chemistry</i> , 2016, 88, 6947-6953.	6.5	72
34	Probing enzyme-nanoparticle interactions using combinatorial gold nanoparticle libraries. <i>Nano Research</i> , 2015, 8, 1293-1308.	10.4	28
35	Experimental modulation and computational model of nano-hydrophobicity. <i>Biomaterials</i> , 2015, 52, 312-317.	11.4	37
36	Induction of Size-Dependent Breakdown of Blood-Milk Barrier in Lactating Mice by TiO <sub>2</sub> Nanoparticles. <i>PLoS ONE</i> , 2015, 10, e0122591.	2.5	33

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37	Synergistic action by multi-targeting compounds produces a potent compound combination for human NSCLC both in vitro and in vivo. <i>Cell Death and Disease</i> , 2014, 5, e1138-e1138.	6.3	16
38	Adsorption of Bisphenol A to a Carbon Nanotube Reduced Its Endocrine Disrupting Effect in Mice Male Offspring. <i>International Journal of Molecular Sciences</i> , 2014, 15, 15981-15993.	4.1	19
39	Analytical strategies for real-time, non-invasive tracking of carbon nanomaterials in vivo. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 48, 1-13.	11.4	4
40	Nanocombinatorial Chemistry in Nanomaterial Discovery and Nanomedicine. <i>Acta Chimica Sinica</i> , 2013, 71, 493.	1.4	1
41	A nano-combinatorial approach to developing cancer diagnostics: nano-combinatorial diagnostics discovery. <i>Nanomedicine</i> , 2012, 7, 937-940.	3.3	3
42	The potential health risk of titania nanoparticles. <i>Journal of Hazardous Materials</i> , 2012, 211-212, 404-413.	12.4	31
43	Enabling Anticancer Therapeutics by Nanoparticle Carriers: The Delivery of Paclitaxel. <i>International Journal of Molecular Sciences</i> , 2011, 12, 4395-4413.	4.1	56
44	Nanoparticle-based strategies for detection and remediation of environmental pollutants. <i>Analyst, The</i> , 2011, 136, 872.	3.5	98
45	Impact of Nanomaterials on High Throughput Separation Methodologies. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2011, 14, 182-190.	1.1	7
46	Analytical strategies for characterizing the surface chemistry of nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 973-982.	3.7	66
47	Analytical strategies for detecting nanoparticle-protein interactions. <i>Analyst, The</i> , 2010, 135, 1519.	3.5	102
48	Structural confirmation and quantification of individual ligands from the surface of multi-functionalized gold nanoparticles. <i>Analyst, The</i> , 2010, 135, 1210.	3.5	29
49	Novel 8-hydroxylquinoline analogs induce copper-dependent proteasome inhibition and cell death in human breast cancer cells. <i>International Journal of Oncology</i> , 2009, 35, 1481-91.	3.3	10
50	Structure elucidation of nanoparticle-bound organic molecules by <sup>1</sup> H NMR. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 88-95.	11.4	29
51	Suppression of Human Bone Morphogenetic Protein Signaling by Carboxylated Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2009, 3, 1139-1144.	14.6	69
52	Kinetics of Resin-Supported Mitsunobu Esterification and Etherification Reactions. <i>ACS Combinatorial Science</i> , 2009, 11, 438-445.	3.3	4
53	Characterization of Protein Clusters of Diverse Magnetic Nanoparticles and Their Dynamic Interactions with Human Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5390-5395.	3.1	51
54	Regulation of Enzyme Activity through Interactions with Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2009, 10, 4198-4209.	4.1	104

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55	Functionalized Carbon Nanotubes Specifically Bind to $\alpha$ -Chymotrypsin's Catalytic Site and Regulate Its Enzymatic Function. <i>Nano Letters</i> , 2009, 9, 2280-2284.	9.1	101
56	Advances in HPLC detection towards universal detection. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 299-301.	3.7	59
57	Exploring the Immunotoxicity of Carbon Nanotubes. <i>Nanoscale Research Letters</i> , 2008, 3, 271-277.	5.7	48
58	Design, Synthesis, Cytoselective Toxicity, Structure-Activity Relationships, and Pharmacophore of Thiazolidinone Derivatives Targeting Drug-Resistant Lung Cancer Cells. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1242-1251.	6.4	155
59	A Nano-Combinatorial Library Strategy for the Discovery of Nanotubes with Reduced Protein-Binding, Cytotoxicity, and Immune Response. <i>Nano Letters</i> , 2008, 8, 859-865.	9.1	130
60	Protein Binding by Functionalized Multiwalled Carbon Nanotubes Is Governed by the Surface Chemistry of Both Parties and the Nanotube Diameter. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3300-3307.	3.1	151
61	Feasibility of a Self-Calibrated LC/MS/UV Method to Determine the Absolute Amount of Compounds in Their Storage and Screening Lifecycle. <i>ACS Combinatorial Science</i> , 2008, 10, 162-165.	3.3	4
62	Characterization of Organic Molecules Attached to Gold Nanoparticle Surface Using High Resolution Magic Angle Spinning $^1\text{H}$ NMR. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19360-19366.	3.1	43
63	Evaluation of copper-dependent proteasome-inhibitory and apoptosis-inducing activities of novel pyrrolidine dithiocarbamate analogues. <i>International Journal of Molecular Medicine</i> , 2007, , .	4.0	9
64	Structure-Dependent Response of a Chemiluminescence Nitrogen Detector for Organic Compounds with Adjacent Nitrogen Atoms Connected by a Single Bond. <i>Analytical Chemistry</i> , 2007, 79, 718-726.	6.5	25
65	A Kinetic Study of Product Cleavage Reactions from the Solid Phase by a Biocompatible and Removable Cleaving Reagent, HCl. <i>ACS Combinatorial Science</i> , 2007, 9, 684-689.	3.3	5
66	Fluorimetric Determination of Free Cyanide by Flow-Injection Analysis. <i>Analytical Letters</i> , 2003, 36, 2211-2228.	1.8	13
67	A NEW RAPID AND SENSITIVE METHOD FOR THE FLUORIMETRIC DETERMINATION OF CATIONIC SURFACTANTS BY FLOW-INJECTION. <i>Analytical Letters</i> , 2002, 35, 2511-2526.	1.8	6
68	A RAPID AND SENSITIVE METHOD FOR THE FLUORIMETRIC DETERMINATION OF PHOSPHATE BY FLOW-INJECTION. <i>Analytical Letters</i> , 2001, 34, 2721-2733.	1.8	8
69	Fluorescence Enhancement of Rare Earths by Yttrium and its Application. <i>Analytical Letters</i> , 1994, 27, 1183-1191.	1.8	10
70	Enhanced Fluorimetric Determination of Europium with Dibenzoylmethane and Diphenylguanidine by Terbium. <i>Analytical Letters</i> , 1992, 25, 321-330.	1.8	5