

Baozhan Zheng

List of Publications by Year in descending order

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76326

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6969
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#	ARTICLE	IF	CITATIONS
1	Electrogenerated Chemiluminescence Behavior of Graphite-like Carbon Nitride and Its Application in Selective Sensing Cu^{2+} . <i>Analytical Chemistry</i> , 2012, 84, 4754-4759.	6.5	344
2	Enabling Effective Electrocatalytic N_2 Conversion to NH_3 by the TiO_2 Nanosheets Array under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28251-28255.	8.0	222
3	Efficient Electrochemical N_2 Reduction to NH_3 on MoN Nanosheets Array under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9550-9554.	6.7	210
4	Anodic Electrogenerated Chemiluminescence Behavior of Graphite-Like Carbon Nitride and Its Sensing for Rutin. <i>Analytical Chemistry</i> , 2013, 85, 2601-2605.	6.5	199
5	Influence of pH on the fluorescence properties of graphene quantum dots using ozonation pre-oxide hydrothermal synthesis. <i>Journal of Materials Chemistry</i> , 2012, 22, 25471.	6.7	196
6	A NiCo LDH nanosheet array on graphite felt: an efficient 3D electrocatalyst for the oxygen evolution reaction in alkaline media. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3162-3166.	6.0	181
7	High-Efficiency Electrosynthesis of Ammonia with High Selectivity under Ambient Conditions Enabled by VN Nanosheet Array. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9545-9549.	6.7	170
8	A sensitive AgNPs/CuO nanofibers non-enzymatic glucose sensor based on electrospinning technology. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 431-438.	7.8	148
9	Microwave-assisted synthesis of BSA-stabilized and HSA-protected gold nanoclusters with red emission. <i>Journal of Materials Chemistry</i> , 2012, 22, 1000-1005.	6.7	146
10	Microwave-assisted non-aqueous homogenous precipitation of nanoball-like mesoporous $\text{Ni}(\text{OH})_2$ as a precursor for NiOx and its application as a pseudocapacitor. <i>Journal of Materials Chemistry</i> , 2012, 22, 8029.	6.7	117
11	Three-dimensional amorphous tungsten-doped nickel phosphide microsphere as an efficient electrocatalyst for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18593-18599.	10.3	109
12	Preparation of gold nanoparticles on eggshell membrane and their biosensing application. <i>Talanta</i> , 2010, 82, 177-183.	5.5	100
13	Rapid microwave-assisted fabrication of 3D cauliflower-like NiCo_2S_4 architectures for asymmetric supercapacitors. <i>RSC Advances</i> , 2015, 5, 21604-21613.	3.6	91
14	Facile Fabrication of Mn_2O_3 Nanoparticle-Assembled Hierarchical Hollow Spheres and Their Sensing for Hydrogen Peroxide. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9526-9533.	8.0	88
15	Gold nanoparticles-coated eggshell membrane with immobilized glucose oxidase for fabrication of glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2011, 152, 49-55.	7.8	87
16	N-Doped carbon dots: a metal-free co-catalyst on hematite nanorod arrays toward efficient photoelectrochemical water oxidation. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 537-540.	6.0	86
17	Surface Modification of a NiS_2 Nanoarray with $\text{Ni}(\text{OH})_2$ toward Superior Water Reduction Electrocatalysis in Alkaline Media. <i>Inorganic Chemistry</i> , 2017, 56, 13651-13654.	4.0	84
18	A fluorescent Co^{2+} -probe for the dual-channel detection of $\text{Hg}(\text{II})$ and $\text{Mg}(\text{II})$ and its application of imaging in living cells. <i>Talanta</i> , 2011, 85, 2194-2201.	5.5	83

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19	A facile large-scale microwave synthesis of highly fluorescent carbon dots from benzenediol isomers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5028-5035.	5.5	80
20	Metal-organic framework-derived shuttle-like V_2O_3/C for electrocatalytic N_2 reduction under ambient conditions. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 391-395.	6.0	79
21	Improvement of sensitive CuO NFs-ITO nonenzymatic glucose sensor based on in situ electrospun fiber. <i>Talanta</i> , 2012, 101, 24-31.	5.5	77
22	Bi nanodendrites for efficient electrocatalytic N_2 fixation to NH_3 under ambient conditions. <i>Chemical Communications</i> , 2020, 56, 2107-2110.	4.1	71
23	Facilitating Active Species Generation by Amorphous $NiFe_2O_4$ Layer Formation on $NiFe-LDH$ Nanoarray for Efficient Electrocatalytic Oxygen Evolution at Alkaline pH. <i>Chemistry - A European Journal</i> , 2017, 23, 11499-11503.	3.3	69
24	One pot selective synthesis of water and organic soluble carbon dots with green fluorescence emission. <i>RSC Advances</i> , 2015, 5, 11667-11675.	3.6	68
25	P-Doped graphene toward enhanced electrocatalytic N_2 reduction. <i>Chemical Communications</i> , 2020, 56, 1831-1834.	4.1	67
26	N-Doped carbon dots: green and efficient synthesis on a large-scale and their application in fluorescent pH sensing. <i>New Journal of Chemistry</i> , 2017, 41, 10607-10612.	2.8	63
27	Electrochemical fabrication of lanthanum-doped TiO_2 nanotube array electrode and investigation of its photoelectrochemical capability. <i>Electrochimica Acta</i> , 2013, 90, 589-596.	5.2	59
28	Electrophoresis deposition of Ag nanoparticles on TiO_2 nanotube arrays electrode for hydrogen peroxide sensing. <i>Talanta</i> , 2013, 112, 129-135.	5.5	54
29	Sn dendrites for electrocatalytic N_2 reduction to NH_3 under ambient conditions. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4469-4472.	4.9	54
30	Fast microwave synthesis of Fe_3O_4 and Fe_3O_4/Ag magnetic nanoparticles using Fe^{2+} as precursor. <i>Inorganic Materials</i> , 2010, 46, 1106-1111.	0.8	53
31	A novel dual-switch fluorescent probe for Cr^{3+} ion based on PET-FRET processes. <i>Analyst</i> , 2014, 139, 3607-3613.	3.5	53
32	Enhancing catalytic formaldehyde oxidation on $CuO@Ag_2O$ nanowires for gas sensing and hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14736.	10.3	52
33	Target-catalyzed autonomous assembly of dendrimer-like DNA nanostructures for enzyme-free and signal amplified colorimetric nucleic acids detection. <i>Biosensors and Bioelectronics</i> , 2016, 86, 985-989.	10.1	51
34	Surface Amorphization: A Simple and Effective Strategy toward Boosting the Electrocatalytic Activity for Alkaline Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8518-8522.	6.7	51
35	A $NiCo_2O_4@NiCo$ core-shell nanowire array as an efficient electrocatalyst for water oxidation at near-neutral pH. <i>Chemical Communications</i> , 2017, 53, 7812-7815.	4.1	49
36	$FeOOH$ quantum dots decorated graphene sheet: An efficient electrocatalyst for ambient N_2 reduction. <i>Nano Research</i> , 2020, 13, 209-214.	10.4	48

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37	Fast microwave-assisted synthesis of AuAg bimetallic nanoclusters with strong yellow emission and their response to mercury(II) ions. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 386-392.	7.8	46
38	Low-potential amperometric detection of dopamine based on MnO ₂ nanowires/chitosan modified gold electrode. <i>Electrochimica Acta</i> , 2013, 89, 832-839.	5.2	42
39	A FRET chemsensor based on graphene quantum dots for detecting and intracellular imaging of Hg ²⁺ . <i>Talanta</i> , 2015, 143, 442-449.	5.5	41
40	A specific and biocompatible fluorescent sensor based on the hybrid of GFP chromophore and peptide for HSA detection. <i>Biosensors and Bioelectronics</i> , 2016, 86, 489-495.	10.1	40
41	Ultrahigh performance liquid chromatographic analysis and magnetic preconcentration of polycyclic aromatic hydrocarbons by Fe ₃ O ₄ -doped polymeric nanoparticles. <i>Journal of Chromatography A</i> , 2012, 1247, 1-9.	3.7	37
42	The role of ozone in the ozonation process of graphene oxide: oxidation or decomposition?. <i>RSC Advances</i> , 2014, 4, 58325-58328.	3.6	37
43	A selective fluorescent probe based on bis-Schiff base for α -ketoglutarate detection of Al ³⁺ and cysteine by different mechanisms. <i>RSC Advances</i> , 2016, 6, 25420-25426.	3.6	37
44	One-dimensional conductive metal-organic framework nanorods: a highly selective electrocatalyst for the oxygen reduction to hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20345-20349.	10.3	36
45	A selective and sensitive fluorescent probe for the determination of HSA and trypsin. <i>Talanta</i> , 2017, 170, 562-568.	5.5	35
46	Target-triggered autonomous assembly of DNA polymer chains and its application in colorimetric nucleic acid detection. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3191-3194.	5.8	32
47	Improving the performance of a LiFePO ₄ cathode based on electrochemically cleaved graphite oxides with high hydrophilicity and good conductivity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7933.	10.3	31
48	N-doped carbon dots with high sensitivity and selectivity for hypochlorous acid detection and its application in water. <i>Analytical Methods</i> , 2015, 7, 5311-5317.	2.7	31
49	Unusual sequence length-dependent gold nanoparticles aggregation of the ssDNA sticky end and its application for enzyme-free and signal amplified colorimetric DNA detection. <i>Scientific Reports</i> , 2016, 6, 30878.	3.3	31
50	A sensitive and selective chemosensor for ascorbic acid based on a fluorescent nitroxide switch. <i>Talanta</i> , 2015, 132, 191-196.	5.5	30
51	Surfactant-free gold nanoparticles: rapid and green synthesis and their greatly improved catalytic activities for 4-nitrophenol reduction. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1268-1272.	6.0	30
52	In situ synthesis of gold nanoparticles on porous polyacrylonitrile nanofibers for sensing applications. <i>Analyst</i> , 2011, 136, 4545.	3.5	29
53	Self-assembly of DNA nanoparticles through multiple catalyzed hairpin assembly for enzyme-free nucleic acid amplified detection. <i>Talanta</i> , 2018, 179, 641-645.	5.5	28
54	A fluorescent α -on-off-probe for sensitive detection of ATP based on ATP displacing DNA from nanoceria. <i>Talanta</i> , 2018, 179, 285-291.	5.5	27

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55	Nanostructured Bromide-Derived Ag Film: An Efficient Electrocatalyst for N ₂ Reduction to NH ₃ under Ambient Conditions. <i>Inorganic Chemistry</i> , 2018, 57, 14692-14697.	4.0	27
56	Highly selective and sensitive fluorescence probe based on thymine-modified carbon dots for Hg ²⁺ and l-cysteine detection. <i>RSC Advances</i> , 2015, 5, 89121-89127.	3.6	25
57	Magnetron sputtering enabled synthesis of nanostructured materials for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20260-20285.	10.3	25
58	A highly sensitive and selective turn-on fluorogenic and colorimetric sensor based on pyrene-functionalized magnetic nanoparticles for Hg ²⁺ detection and cell imaging. <i>Talanta</i> , 2013, 117, 338-344.	5.5	24
59	Small molecular neutral microcrystalline iridium(III) complexes as promising molecular oxygen sensors. <i>Chemical Communications</i> , 2015, 51, 1926-1929.	4.1	23
60	Construction of hydrophobic interface on natural biomaterials for higher efficient and reversible radioactive iodine adsorption in water. <i>Journal of Hazardous Materials</i> , 2019, 368, 81-89.	12.4	22
61	A sensitive and selective chemosensor for GSSG detection based on the recovered fluorescence of NDPA-Fe ₃ O ₄ @SiO ₂ -Cu(II) nanomaterial. <i>Biosensors and Bioelectronics</i> , 2013, 48, 138-144.	10.1	20
62	Synthesis of amphiphilic carbon dots and their application for the analysis of iodine species (I ₂ , I ⁻ and IO ₃ ⁻) in highly saline water. <i>Analyst</i> , 2016, 141, 2508-2514.	3.5	20
63	Self-assembled hybrids with xanthate functionalized carbon nanotubes and electro-exfoliating graphene sheets for electrochemical sensing of copper ions. <i>Journal of Electroanalytical Chemistry</i> , 2016, 767, 100-107.	3.8	20
64	Facile synthesis of functionalized carbon nanospheres for determination of Cu ²⁺ . <i>Analyst</i> , 2013, 138, 2073.	3.5	19
65	Microwave-Assisted Synthesis of Red-Light Emitting Au Nanoclusters with the Use of Egg White. <i>Journal of Chemical Education</i> , 2014, 91, 1715-1719.	2.3	19
66	Molten-salt synthesis of lamellar Ni(OH) ₂ /NiOOH composite and its application for pseudocapacitor. <i>Journal of Alloys and Compounds</i> , 2014, 610, 549-554.	5.5	19
67	Synthesis of water-soluble fluorescent carbon dots from <i>Setcreasea purpurea boom</i> and its application for Br ₂ detection. <i>Analytical Methods</i> , 2018, 10, 151-157.	2.7	18
68	Hydrophobic AgNPs: one-step synthesis in aqueous solution and their greatly enhanced performance for SERS detection. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10465-10470.	5.5	18
69	Cu@Ag ₂ O nanoparticles grown on a AgCuZn alloy substrate in situ for use as a highly sensitive non-enzymatic glucose sensor. <i>Analytical Methods</i> , 2014, 6, 2215.	2.7	17
70	A rapid room-temperature DNA amplification and detection strategy based on nicking endonuclease and catalyzed hairpin assembly. <i>Analytical Methods</i> , 2019, 11, 2537-2541.	2.7	15
71	In Situ Derived Bi Nanoparticles Confined in Carbon Rods as an Efficient Electrocatalyst for Ambient N ₂ Reduction to NH ₃ . <i>Inorganic Chemistry</i> , 2021, 60, 7584-7589.	4.0	15
72	A Hg ²⁺ selective fluorescent chemosensor based on rhodamine B thiohydrazide and its application in bioimaging. <i>Analytical Methods</i> , 2012, 4, 2369.	2.7	14

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73	Silicon nanoparticles-based ratiometric fluorescence platform: Real-time visual sensing to ciprofloxacin and Cu ²⁺ . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 253, 119599.	3.9	14
74	The synthesis of highly active carbon dot-coated gold nanoparticles <i>via</i> the room-temperature <i>in situ</i> carbonization of organic ligands for 4-nitrophenol reduction. RSC Advances, 2020, 10, 19419-19424.	3.6	10
75	Dual-readout performance of Eu ³⁺ -doped nanoceria as a phosphatase mimic for degradation and detection of organophosphate. Analytical Methods, 2021, 13, 4747-4755.	2.7	10
76	Fabrication of Cu(OH) ₂ One Dimensional Nanostructures: Application to Humidity Sensing. Sensor Letters, 2007, 5, 559-564.	0.4	9
77	Construction of a ratiometric phosphorescent assay with long-lived carbon quantum dots and inorganic nanoparticles for its application in environmental and biological systems. New Journal of Chemistry, 2019, 43, 12410-12416.	2.8	7
78	A spectrofluorimetric sensor based on grape skin tissue for determination of iron(III). Bulletin of the Chemical Society of Ethiopia, 2010, 24, .	1.1	6
79	Enhancement of Electrochemiluminescence of Porous Silicon with Triethylamine as Co-reactant. Electroanalysis, 2012, 24, 1887-1894.	2.9	6
80	A self-assembled net structured film for the immobilization of tris(2,2'-bipyridyl)ruthenium(II) and its ultrasensitive electrogenerated chemiluminescent sensing for phenol. RSC Advances, 2014, 4, 467-473.	3.6	6
81	Solvothermal synthesis of oxygen/nitrogen functionalized graphene-like materials with diversified morphology from different carbon sources and their fluorescence properties. Journal of Materials Science, 2015, 50, 1300-1308.	3.7	6
82	Simulation and Experimental Study on Doubled-Input Capacitively Coupled Contactless Conductivity Detection of Capillary Electrophoresis. Scientific Reports, 2020, 10, 7944.	3.3	6
83	Cadmium sulfide nanotubes thin films: Characterization and photoelectrochemical behavior. Thin Solid Films, 2012, 520, 2520-2525.	1.8	5
84	Hierarchical graphite oxide fabricated from graphite via electrochemical cleavage as an anode material for lithium ion batteries. RSC Advances, 2013, 3, 12758.	3.6	5
85	Large enhancement of oscillating chemiluminescence with [Ru(bpy) ₃] ²⁺ -catalyzed Belousov-Zhabotinsky reaction in the presence of triethylamine. Luminescence, 2013, 28, 760-764.	2.9	2
86	Simultaneous Determination of Isoflavones and Equol in Egg Yolk Using UPLC-MS/MS. Food Analytical Methods, 2019, 12, 859-868.	2.6	2
87	Flower-shaped gold crystals grown on anodic etched porous silicon. Materials Letters, 2012, 86, 100-103.	2.6	1
88	Ultrastrong Chemiluminescence Activity of Nanocarbon Materials after Ozonation and Their Effects on Different Chemiluminescent Systems. Chemistry - A European Journal, 2016, 22, 8966-8971.	3.3	1
89	Self-driven mercury motor via redox reaction in acid solution. RSC Advances, 2017, 7, 32552-32558.	3.6	1
90	Improved Electrochemiluminescence Behavior of Glassy Carbon Electrode Through <i>In Situ</i> Chemical Bonding Modification. ChemElectroChem, 2019, 6, 1878-1883.	3.4	1

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91	Coexisting Chloride Ion for Boosting the Photoelectrocatalytic Degradation Efficiency of Organic Dyes. <i>Catalysis Letters</i> , 0, , 1.	2.6	0