

# Zhiquan Zhang

## List of Publications by Year in descending order

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56  
papers

2,993  
citations

218381

26  
h-index

161609

54  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3999  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel artificial peroxisome candidate based on nanozyme with excellent catalytic performance for biosensing. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113686.	5.3	24
2	Developed a high-performance sensor based on coumarin derivative for rapid and sensitive detection of palladium ion in organic wastewater. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 99, 292-298.	2.9	7
3	Catalytic amplification based on hierarchical heterogeneity bimetal-organic nanostructures with peroxidase-like activity. <i>Analytica Chimica Acta</i> , 2021, 1173, 338713.	2.6	6
4	Cobalt-decorated 3D hybrid nanozyme: A catalytic amplification platform with intrinsic oxidase-like activity. <i>Electrochimica Acta</i> , 2021, 395, 139197.	2.6	21
5	Preparation and application of a highly sensitive conjugated polymer-copper (â€¦) composite fluorescent sensor for detecting hydrazine in aqueous solution. <i>Talanta</i> , 2020, 207, 120203.	2.9	23
6	Density Functional Theory-Assisted Electrochemical Assay Manipulated by a Donorâ€“Acceptor Structure toward Pharmaceutical Diagnostic. <i>Analytical Chemistry</i> , 2020, 92, 15297-15305.	3.2	9
7	An electrochemical thrombin aptasensor based on the use of graphite-like C <sub>3</sub> N <sub>4</sub> modified with silver nanoparticles. <i>Mikrochimica Acta</i> , 2020, 187, 163.	2.5	30
8	Charge Transfer Platform and Catalytic Amplification of Phenanthroimidazole Derivative: A New Strategy for DNA Bases Recognition. <i>Analytical Chemistry</i> , 2019, 91, 11938-11945.	3.2	10
9	AuPt/MOFâ€“Graphene: A Synergistic Catalyst with Surprisingly High Peroxidase-Like Activity and Its Application for H <sub>2</sub> O <sub>2</sub> Detection. <i>Analytical Chemistry</i> , 2019, 91, 10589-10595.	3.2	102
10	Fabrication of CoNPs-embedded porous carbon composites based on morphochemical imprinting strategy for detection of H <sub>2</sub> O <sub>2</sub> released from living cells. <i>Electrochimica Acta</i> , 2019, 321, 134717.	2.6	14
11	A novel phosphonic acid functional polythiophene fluorescent sensor for Ca <sup>2+</sup> and its live cell imaging. <i>Analytical Methods</i> , 2019, 11, 4991-4997.	1.3	5
12	Characterization of Five Kinds of Wood Vinegar Obtained from Agricultural and Forestry Wastes and Identification of Major Antioxidants in Wood Vinegar. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 12-20.	1.3	14
13	New Strategy for Ultrasensitive Aptasensor Fabrication: Dâ€“Aâ€“D Constitution as a Charge Transfer Platform and Recognition Element. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17894-17901.	4.0	10
14	Catechol and zwitterion-bifunctionalized poly(ethylene glycol) based ultrasensitive antifouling electrochemical aptasensor for the quantification of adenosine triphosphate in biological media. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 469-475.	4.0	21
15	Disinfection and removal performance for <i>Escherichia coli</i> , toxic heavy metals and arsenic by wood vinegar-modified zeolite. <i>Ecotoxicology and Environmental Safety</i> , 2019, 174, 129-136.	2.9	40
16	A bioinspired antifouling zwitterionic interface based on reduced graphene oxide carbon nanofibers: electrochemical aptasensing of adenosine triphosphate. <i>Mikrochimica Acta</i> , 2019, 186, 240.	2.5	13
17	The synergistic effect of Au-COF nanosheets and artificial peroxidase Au@ZIF-8(NiPd) rhombic dodecahedra for signal amplification for biomarker detection. <i>Nanoscale</i> , 2019, 11, 20221-20227.	2.8	37
18	Signal amplification strategy for biomarkers: Structural origins of epitaxial-growth twinned nanocrystals and Dâ€“A type polymers. <i>Biosensors and Bioelectronics</i> , 2018, 109, 184-189.	5.3	2

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19	Catalytic activity of biomimetic model of cytochrome P450 in oxidation of dopamine. <i>Talanta</i> , 2018, 179, 401-408.	2.9	12
20	A non-enzymatic glucose sensor based on the CuS nanoflakes/reduced graphene oxide nanocomposite. <i>Analytical Methods</i> , 2018, 10, 381-388.	1.3	54
21	Morphology-controlled synthesis of Bi <sub>2</sub> S <sub>3</sub> nanorods-reduced graphene oxide composites with high-performance for electrochemical detection of dopamine. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 936-943.	4.0	58
22	Porous Co <sub>3</sub> O <sub>4</sub> nanoplates with pH-switchable peroxidase- and catalase-like activity. <i>Nanoscale</i> , 2018, 10, 19140-19146.	2.8	81
23	Nanozyme: An emerging alternative to natural enzyme for biosensing and immunoassay. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 105, 218-224.	5.8	513
24	MNPs@anionic MOFs/ERGO with the size selectivity for the electrochemical determination of H <sub>2</sub> O <sub>2</sub> released from living cells. <i>Biosensors and Bioelectronics</i> , 2018, 116, 81-88.	5.3	104
25	Facile synthesis of 3D N-doped porous carbon nanosheets as highly active electrocatalysts toward the reduction of hydrogen peroxide. <i>Nanoscale</i> , 2018, 10, 14923-14930.	2.8	32
26	A multidimensional design of charge transfer interfaces via D-A-D linking fashion for electrophysiological sensing of neurotransmitters. <i>Biosensors and Bioelectronics</i> , 2018, 99, 296-302.	5.3	8
27	One-Pot Synthesis of Fe <sub>3</sub> O <sub>4</sub> Nanoparticle Loaded 3D Porous Graphene Nanocomposites with Enhanced Nanozyme Activity for Glucose Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7465-7471.	4.0	188
28	Boosted Sensor Performance by Surface Modification of Bifunctional <i>rht</i> -Type Metal-Organic Framework with Nanosized Electrochemically Reduced Graphene Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 2984-2994.	4.0	72
29	Fabrication of novel metal-free graphene alloy for the highly efficient electrocatalytic reduction of H <sub>2</sub> O <sub>2</sub> . <i>Talanta</i> , 2017, 165, 143-151.	2.9	20
30	Fabrication of Novel Electrochemical Biosensor Based on Graphene Nanohybrid to Detect H <sub>2</sub> O <sub>2</sub> Released from Living Cells with Ultrahigh Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37991-37999.	4.0	98
31	GOx@ZIF-8(NiPd) Nanoflower: An Artificial Enzyme System for Tandem Catalysis. <i>Angewandte Chemie</i> , 2017, 129, 16298-16301.	1.6	64
32	GOx@ZIF-8(NiPd) Nanoflower: An Artificial Enzyme System for Tandem Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16082-16085.	7.2	323
33	Preparation and characterization of two wood vinegars obtained from hull of spina date seed and shell of peanut. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 348-353.	1.3	4
34	A novel electrochemical biomimetic sensor based on poly(Cu-AMT) with reduced graphene oxide for ultrasensitive detection of dopamine. <i>Talanta</i> , 2017, 162, 80-89.	2.9	78
35	Poly(diallyldimethylammonium chloride) Functionalized Graphene/Double-walled Carbon Nanotube Composite for Amperometric Determination of Nitrite. <i>Electroanalysis</i> , 2016, 28, 484-492.	1.5	10
36	Petal-like graphene/Ag composites with highly exposed active edge sites were designed and constructed for electrochemical determination of metronidazole. <i>RSC Advances</i> , 2016, 6, 45202-45209.	1.7	26

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37	Signal amplification biosensor based on DNA for ultrasensitive electrochemical determination of metronidazole. RSC Advances, 2016, 6, 61207-61213.	1.7	16
38	Synergetic catalysis based on the proline tailed metalloporphyrin with graphene sheet as efficient mimetic enzyme for ultrasensitive electrochemical detection of dopamine. Biosensors and Bioelectronics, 2016, 77, 1032-1038.	5.3	56
39	Triple-enzyme mimetic activity of nickel-palladium hollow nanoparticles and their application in colorimetric biosensing of glucose. Chemical Communications, 2016, 52, 5410-5413.	2.2	144
40	Biomimetic sensor based on molecularly imprinted polymer with nitroreductase-like activity for metronidazole detection. Biosensors and Bioelectronics, 2016, 77, 393-399.	5.3	89
41	One-pot green synthesis of Ag/AgCl nanocube/reduced graphene oxide and its application to the simultaneous determination of hydroquinone and catechol. RSC Advances, 2015, 5, 44165-44172.	1.7	16
42	Tremella-like graphene-Au composites used for amperometric determination of dopamine. Analyst, The, 2015, 140, 1913-1920.	1.7	26
43	Study of the ion-channel behavior on glassy carbon electrode supported bilayer lipid membranes stimulated by perchlorate anion. Materials Science and Engineering C, 2015, 55, 431-435.	3.8	5
44	Label-free aptamer biosensor for thrombin detection based on functionalized graphene nanocomposites. Talanta, 2015, 141, 247-252.	2.9	65
45	Catalytic amplification based on hole-transporting materials as efficient metal-free electrocatalysts for non-enzymatic glucose sensing. Analytica Chimica Acta, 2015, 889, 113-122.	2.6	14
46	Hierarchical polystyrene@reduced graphene oxide-Pt core-shell microspheres for non-enzymatic detection of hydrogen peroxide. RSC Advances, 2015, 5, 73993-74002.	1.7	20
47	One-step electrochemical preparation of a reduced graphene oxide/poly(sulfosalicylic acid) nanocomposite film for detection of acetaminophen and its application in human urine and serum studies. Analytical Methods, 2015, 7, 8248-8254.	1.3	5
48	One-pot green synthesis of Prussian blue nanocubes decorated reduced graphene oxide using mushroom extract for efficient 4-nitrophenol reduction. Analytica Chimica Acta, 2015, 853, 579-587.	2.6	55
49	Biomimetic sensor based on copper-poly(cysteine) film for the determination of metronidazole. Electrochimica Acta, 2015, 152, 108-116.	2.6	63
50	Ag nanoparticles and electrospun CeO <sub>2</sub> -Au composite nanofibers modified glassy carbon electrode for determination of levofloxacin. Sensors and Actuators B: Chemical, 2014, 203, 95-101.	4.0	54
51	Simultaneous determination of catechol and hydroquinone based on poly(sulfosalicylic acid) modified glassy carbon electrode. Sensors and Actuators B: Chemical, 2014, 203, 1059-1067.	1.5	32
52	Nanopore array derived from L-cysteine oxide/gold hybrids: Enhanced sensing platform for hydroquinone and catechol determination. Electrochimica Acta, 2013, 88, 15-23.	2.6	49
53	One-Step Synthesis of Cyclodextrin Functionalized Graphene/Ag Nanocomposite and Its Application in Sensitive Determination of 4-Nitrophenol. Electroanalysis, 2013, 25, 2367-2376.	1.5	14
54	A novel composite film derived from cysteic acid and PDDA-functionalized graphene: Enhanced sensing material for electrochemical determination of metronidazole. Talanta, 2013, 104, 204-211.	2.9	74

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55	<i>2</i> Cyclodextrin-Functionalized Gold Nanoparticles/Poly(L-cysteine) Modified Glassy Carbon Electrode for Sensitive Determination of Metronidazole. <i>Electroanalysis</i> , 2013, 25, 1209-1216.	1.5	43
56	Fabrication of New Magnetic Nanoparticles (Fe <sub>3</sub> O <sub>4</sub> ) Grafted Multiwall Carbon Nanotubes and Heterocyclic Compound Modified Electrode for Electrochemical Sensor. <i>Electroanalysis</i> , 2010, 22, 433-438.	1.5	20