

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
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57
all docs

57
docs citations

57
times ranked

3999
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	One-Pot Synthesis of Fe ₃ O ₄ Nanoparticle Loaded 3D Porous Graphene Nanocomposites with Enhanced Nanozyme Activity for Glucose Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7465-7471.	4.0	188
4	Triple-enzyme mimetic activity of nickel-palladium hollow nanoparticles and their application in colorimetric biosensing of glucose. <i>Chemical Communications</i> , 2016, 52, 5410-5413.	2.2	144
5	MNPs@anionic MOFs/ERGO with the size selectivity for the electrochemical determination of H ₂ O ₂ released from living cells. <i>Biosensors and Bioelectronics</i> , 2018, 116, 81-88.	5.3	104
6	AuPt/MOF-Graphene: A Synergistic Catalyst with Surprisingly High Peroxidase-Like Activity and Its Application for H ₂ O ₂ Detection. <i>Analytical Chemistry</i> , 2019, 91, 10589-10595.	3.2	102
7	Fabrication of Novel Electrochemical Biosensor Based on Graphene Nanohybrid to Detect H ₂ O ₂ Released from Living Cells with Ultrahigh Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37991-37999.	4.0	98
8	Biomimetic sensor based on molecularly imprinted polymer with nitroreductase-like activity for metronidazole detection. <i>Biosensors and Bioelectronics</i> , 2016, 77, 393-399.	5.3	89
9	Porous Co ₃ O ₄ nanoplates with pH-switchable peroxidase- and catalase-like activity. <i>Nanoscale</i> , 2018, 10, 19140-19146.	2.8	81
10	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
11	A novel composite film derived from cysteic acid and PDDA-functionalized graphene: Enhanced sensing material for electrochemical determination of metronidazole. <i>Talanta</i> , 2013, 104, 204-211.	2.9	74
12	Boosted Sensor Performance by Surface Modification of Bifunctional <i>rh</i> -Type Metal-Organic Framework with Nanosized Electrochemically Reduced Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2984-2994.	4.0	72
13	Label-free aptamer biosensor for thrombin detection based on functionalized graphene nanocomposites. <i>Talanta</i> , 2015, 141, 247-252.	2.9	65
14	GOx@ZIF-8(NiPd) Nanoflower: An Artificial Enzyme System for Tandem Catalysis. <i>Angewandte Chemie</i> , 2017, 129, 16298-16301.	1.6	64
15	Biomimetic sensor based on copper-poly(cysteine) film for the determination of metronidazole. <i>Electrochimica Acta</i> , 2015, 152, 108-116.	2.6	63
16	Morphology-controlled synthesis of Bi ₂ S ₃ 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
17	Synergetic catalysis based on the proline tailed metalloporphyrin with graphene sheet as efficient mimetic enzyme for ultrasensitive electrochemical detection of dopamine. <i>Biosensors and Bioelectronics</i> , 2016, 77, 1032-1038.	5.3	56
18	One-pot green synthesis of Prussian blue nanocubes decorated reduced graphene oxide using mushroom extract for efficient 4-nitrophenol reduction. <i>Analytica Chimica Acta</i> , 2015, 853, 579-587.	2.6	55

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19	Ag nanoparticles and electrospun CeO ₂ -Au composite nanofibers modified glassy carbon electrode for determination of levofloxacin. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 95-101.	4.0	54
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	Nanopore array derived from l-cysteine oxide/gold hybrids: Enhanced sensing platform for hydroquinone and catechol determination. <i>Electrochimica Acta</i> , 2013, 88, 15-23.	2.6	49
22	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
23	Disinfection and removal performance for Escherichia coli, toxic heavy metals and arsenic by wood vinegar-modified zeolite. <i>Ecotoxicology and Environmental Safety</i> , 2019, 174, 129-136.	2.9	40
24	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
25	Simultaneous determination of catechol and hydroquinone based on poly(sulfosalicylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 1059-1067.	1.5	32
26	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
27	An electrochemical thrombin aptasensor based on the use of graphite-like C ₃ N ₄ modified with silver nanoparticles. <i>Mikrochimica Acta</i> , 2020, 187, 163.	2.5	30
28	Tremella-like graphene/Au composites used for amperometric determination of dopamine. <i>Analyst</i> , The, 2015, 140, 1913-1920.	1.7	26
29	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
30	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
31	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
32	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
33	Cobalt-decorated 3D hybrid nanozyme: A catalytic amplification platform with intrinsic oxidase-like activity. <i>Electrochimica Acta</i> , 2021, 395, 139197.	2.6	21
34	Fabrication of New Magnetic Nanoparticles (Fe ₃ O ₄) Grafted Multiwall Carbon Nanotubes and Heterocyclic Compound Modified Electrode for Electrochemical Sensor. <i>Electroanalysis</i> , 2010, 22, 433-438.	1.5	20
35	Hierarchical polystyrene/reduced graphene oxide/Pt core-shell microspheres for non-enzymatic detection of hydrogen peroxide. <i>RSC Advances</i> , 2015, 5, 73993-74002.	1.7	20
36	Fabrication of novel metal-free graphene alloy for the highly efficient electrocatalytic reduction of H ₂ O ₂ . <i>Talanta</i> , 2017, 165, 143-151.	2.9	20

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37	One-pot green synthesis of Ag/AgCl nanocube/reduced graphene oxide and its application to the simultaneous determination of hydroquinone and catechol. <i>RSC Advances</i> , 2015, 5, 44165-44172.	1.7	16
38	Signal amplification biosensor based on DNA for ultrasensitive electrochemical determination of metronidazole. <i>RSC Advances</i> , 2016, 6, 61207-61213.	1.7	16
39	One-Step Synthesis of β -Cyclodextrin Functionalized Graphene/Ag Nanocomposite and Its Application in Sensitive Determination of 4-Nitrophenol. <i>Electroanalysis</i> , 2013, 25, 2367-2376.	1.5	14
40	Catalytic amplification based on hole-transporting materials as efficient metal-free electrocatalysts for non-enzymatic glucose sensing. <i>Analytica Chimica Acta</i> , 2015, 889, 113-122.	2.6	14
41	Fabrication of CoNPs-embedded porous carbon composites based on morphochemical imprinting strategy for detection of H ₂ O ₂ released from living cells. <i>Electrochimica Acta</i> , 2019, 321, 134717.	2.6	14
42	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
43	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
44	Catalytic activity of biomimetic model of cytochrome P450 in oxidation of dopamine. <i>Talanta</i> , 2018, 179, 401-408.	2.9	12
45	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
46	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
47	New Strategy for Ultrasensitive Aptasensor Fabrication: D π -A π -D Constitution as a Charge Transfer Platform and Recognition Element. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17894-17901.	4.0	10
48	Density Functional Theory-Assisted Electrochemical Assay Manipulated by a Donor-Acceptor Structure toward Pharmaceutical Diagnostic. <i>Analytical Chemistry</i> , 2020, 92, 15297-15305.	3.2	9
49	A multidimensional design of charge transfer interfaces via D π -A π -D linking fashion for electrophysiological sensing of neurotransmitters. <i>Biosensors and Bioelectronics</i> , 2018, 99, 296-302.	5.3	8
50	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
51	Catalytic amplification based on hierarchical heterogeneity bimetal-organic nanostructures with peroxidase-like activity. <i>Analytica Chimica Acta</i> , 2021, 1173, 338713.	2.6	6
52	Study of the ion-channel behavior on glassy carbon electrode supported bilayer lipid membranes stimulated by perchlorate anion. <i>Materials Science and Engineering C</i> , 2015, 55, 431-435.	3.8	5
53	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. <i>Analytical Methods</i> , 2015, 7, 8248-8254.	1.3	5
54	A novel phosphonic acid functional polythiophene fluorescent sensor for Ca ²⁺ and its live cell imaging. <i>Analytical Methods</i> , 2019, 11, 4991-4997.	1.3	5

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55	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
56	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