

Xuming Zhuang

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,682
citations

257450

24
h-index

289244

40
g-index

53
all docs

53
docs citations

53
times ranked

2044
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of highly sensitive Pt nanoparticles-carbon quantum dots/ionic liquid functionalized graphene oxide nanocomposites and application for H ₂ O ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1500-1506.	7.8	128
2	An ionic liquid supported CeO ₂ nanoshuttlesâ€“carbon nanotubes composite as a platform for impedance DNA hybridization sensing. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2417-2422.	10.1	123
3	Nano zero-valent iron improves anammox activity by promoting the activity of quorum sensing system. <i>Water Research</i> , 2021, 202, 117491.	11.3	123
4	Highly sensitive detection of prostate cancer specific PCA3 mimic DNA using SERS-based competitive lateral flow assay. <i>Nanoscale</i> , 2019, 11, 15530-15536.	5.6	76
5	Biotreatment of high-salinity wastewater: current methods and future directions. <i>World Journal of Microbiology and Biotechnology</i> , 2020, 36, 37.	3.6	67
6	Manganese dioxide nanosheet-decorated ionic liquid-functionalized graphene for electrochemical theophylline biosensing. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 185-191.	7.8	62
7	An electrochemiluminescence sensor for the detection of prostate protein antigen based on the graphene quantum dots infilled TiO ₂ nanotube arrays. <i>Talanta</i> , 2019, 191, 103-108.	5.5	60
8	CoS ₂ -decorated ionic liquid-functionalized graphene as a novel hydrazine electrochemical sensor. <i>Talanta</i> , 2018, 182, 529-535.	5.5	59
9	One-step electrochemical fabrication of a nickel oxide nanoparticle/polyaniline nanowire/graphene oxide hybrid on a glassy carbon electrode for use as a non-enzymatic glucose biosensor. <i>RSC Advances</i> , 2016, 6, 92541-92546.	3.6	57
10	Simultaneous voltammetric determination of guanine and adenine using MnO ₂ nanosheets and ionic liquid-functionalized graphene combined with a permeation-selective polydopamine membrane. <i>Mikrochimica Acta</i> , 2019, 186, 450.	5.0	51
11	Reduced graphene oxide functionalized with a CoS ₂ /ionic liquid composite and decorated with gold nanoparticles for voltammetric sensing of dopamine. <i>Mikrochimica Acta</i> , 2018, 185, 166.	5.0	48
12	Functionalized Copper Nanoclusters-Based Fluorescent Probe with Aggregation-Induced Emission Property for Selective Detection of Sulfide Ions in Food Additives. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 11301-11308.	5.2	46
13	In situ synthesis of a Prussian blue nanoparticles/graphdiyne oxide nanocomposite with high stability and electrocatalytic activity. <i>Electrochemistry Communications</i> , 2017, 83, 96-101.	4.7	42
14	Strong Interaction between Imidazolium-Based Polycationic Polymer and Ferricyanide: Toward Redox Potential Regulation for Selective In Vivo Electrochemical Measurements. <i>Analytical Chemistry</i> , 2012, 84, 1900-1906.	6.5	40
15	Enhanced voltammetric determination of dopamine using a glassy carbon electrode modified with ionic liquid-functionalized graphene and carbon dots. <i>Mikrochimica Acta</i> , 2016, 183, 3177-3182.	5.0	40
16	Stimuli-Responsive Luminescent Copper Nanoclusters in Alginate and Their Sensing Ability for Glucose. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6561-6567.	8.0	40
17	Ru(bpy) ₃ ²⁺ encapsulated cyclodextrin based metal organic framework with improved biocompatibility for sensitive electrochemiluminescence detection of CYFRA21-1 in cell. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113371.	10.1	38
18	Selective detection of enrofloxacin in biological and environmental samples using a molecularly imprinted electrochemiluminescence sensor based on functionalized copper nanoclusters. <i>Talanta</i> , 2022, 236, 122835.	5.5	38

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19	Fabrication of gold nanoparticles/l-cysteine functionalized graphene oxide nanocomposites and application for nitrite detection. <i>Journal of Alloys and Compounds</i> , 2018, 744, 51-56.	5.5	37
20	A copper nanocluster incorporated nanogel: Confinement-assisted emission enhancement for zinc ion detection in living cells. <i>Sensors and Actuators B: Chemical</i> , 2020, 307, 127626.	7.8	33
21	Enhanced electrochemical sensor based on gold nanoparticles and MoS ₂ nanoflowers decorated ionic liquid-functionalized graphene for sensitive detection of bisphenol A in environmental water. <i>Microchemical Journal</i> , 2021, 161, 105769.	4.5	33
22	Facile synthesis of a cyclodextrin-metal organic framework decorated with Ketjen Black and platinum nanoparticles and its application in the electrochemical detection of ofloxacin. <i>Analyst, The</i> , 2020, 145, 1943-1949.	3.5	32
23	Incorporating copper nanoclusters into a zeolitic imidazole framework-90 for use as a highly sensitive adenosine triphosphate sensing system to evaluate the freshness of aquatic products. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127720.	7.8	31
24	A twilight for the complete nitrogen removal via synergistic partial-denitrification, anammox, and DNRA process. <i>Npj Clean Water</i> , 2021, 4, .	8.0	26
25	Label-free exonuclease I-assisted signal amplification colorimetric sensor for highly sensitive detection of kanamycin. <i>Food Chemistry</i> , 2021, 347, 128988.	8.2	25
26	Facile synthesis of oxidized multi-walled carbon nanotubes functionalized with 5-sulfosalicylic acid/MoS ₂ nanosheets nanocomposites for electrochemical detection of copper ions. <i>Applied Surface Science</i> , 2019, 487, 766-772.	6.1	24
27	Imidazole metal-organic frameworks embedded in layered Ti ₃ C ₂ T _x Mxene as a high-performance electrochemiluminescence biosensor for sensitive detection of HIV-1 protein. <i>Microchemical Journal</i> , 2021, 167, 106332.	4.5	22
28	Achieving fast start-up of anammox process by promoting the growth of anammox bacteria with FeS addition. <i>Npj Clean Water</i> , 2020, 3, .	8.0	21
29	A specific electrochemiluminescence sensor for selective and ultra-sensitive mercury(^{II}) detection based on dithiothreitol functionalized copper nanocluster/carbon nitride nanocomposites. <i>Analyst, The</i> , 2019, 144, 4425-4431.	3.5	20
30	A novel electrochemiluminescent emitter of europium hydroxide nanorods and its application in bioanalysis. <i>Chemical Communications</i> , 2019, 55, 12479-12482.	4.1	20
31	Encapsulating Ru(bpy) ₃ ²⁺ in an infinite coordination polymer network: Towards a solid-state electrochemiluminescence sensing platform for histamine to evaluate fish product quality. <i>Food Chemistry</i> , 2022, 368, 130852.	8.2	20
32	Electrochemiluminescence sensor based on EuS nanocrystals for ultrasensitive detection of mercury ions in seafood. <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131075.	7.8	20
33	Synthesis and characterization of mercapto-modified graphene/multi-walled carbon nanotube aerogels and their adsorption of Au(III) from environmental samples. <i>Journal of Non-Crystalline Solids</i> , 2020, 536, 120008.	3.1	19
34	Ni ₃ S ₂ /ionic liquid-functionalized graphene as an enhanced material for the nonenzymatic detection of glucose. <i>Microchemical Journal</i> , 2018, 143, 450-456.	4.5	18
35	Copper Nanocluster-Based Transparent Ultraviolet-Shielding Polymer Films. <i>ChemNanoMat</i> , 2019, 5, 110-115.	2.8	18
36	Synthesis of europium(^{III})-doped copper nanoclusters for electrochemiluminescence bioanalysis. <i>Chemical Communications</i> , 2020, 56, 5755-5758.	4.1	18

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37	Cysteine-modulated colorimetric sensing of extracellular Mg ²⁺ in rat brain based on the strong chelation interaction between dithiothreitol and Mg ²⁺ . <i>Analyst</i> , 2013, 138, 3046.	3.5	15
38	Environmental separation and enrichment of gold and palladium ions by amino-modified three-dimensional graphene. <i>RSC Advances</i> , 2019, 9, 2816-2821.	3.6	12
39	Interaction of Coumarin Phytoestrogens with ER ¹ and ER ² : A Molecular Dynamics Simulation Study. <i>Molecules</i> , 2020, 25, 1165.	3.8	11
40	Preparation of gold nanoparticles supported on graphene oxide with flagella as the template for nonenzymatic hydrogen peroxide sensing. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5915-5921.	3.7	10
41	An Electrochemical Sensor Based on Gold and Bismuth Bimetallic Nanoparticles Decorated L-Cysteine Functionalized Graphene Oxide Nanocomposites for Sensitive Detection of Iron Ions in Water Samples. <i>Nanomaterials</i> , 2021, 11, 2386.	4.1	8
42	A portable visual coffee ring based on carbon dot sensitized lanthanide complex coordination to detect bisphenol A in water. <i>RSC Advances</i> , 2022, 12, 7306-7312.	3.6	8
43	Investigation of dissimilatory nitrate reduction to ammonium (DNRA) in urban river network along the Huangpu River, China: rates, abundances, and microbial communities. <i>Environmental Science and Pollution Research</i> , 2022, 29, 23823-23833.	5.3	7
44	Montmorillonite immobilized Fe/Ni bimetallic prepared by dry in-situ hydrogen reduction for the degradation of 4-Chlorophenol. <i>Scientific Reports</i> , 2019, 9, 13388.	3.3	6
45	Polypyrrole and Carbon Nanotube Co-Composited Titania Anodes with Enhanced Sodium Storage Performance in Ether-Based Electrolyte. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800154.	5.3	5
46	The Interaction of Isoflavone Phytoestrogens with ER ¹ and ER ² by Molecular Docking and Molecular Dynamics Simulations. <i>Current Computer-Aided Drug Design</i> , 2020, 16, 655-665.	1.2	5
47	Selective Detection of Alkaline Phosphatase Activity in Environmental Water Samples by Copper Nanoclusters Doped Lanthanide Coordination Polymer Nanocomposites as the Ratiometric Fluorescent Probe. <i>Biosensors</i> , 2022, 12, 372.	4.7	5
48	An ultrasensitive electrochemiluminescence biosensor for the detection of total bacterial count in environmental and biological samples based on a novel sulfur quantum dot luminophore. <i>Analyst</i> , 2022, 147, 1716-1721.	3.5	4
49	Iridium-Complex-Functionalized Magnetic Nanoparticles for Fluorescent Detection of Mercapto Drugs. <i>ACS Applied Nano Materials</i> , 0, , .	5.0	3
50	Self-luminescent europium based metal organic frameworks nanorods as a novel electrochemiluminescence chromophore for sensitive ulinastatin detection in biological samples. <i>Talanta</i> , 2022, 250, 123726.	5.5	3
51	Synthesis and Characterization of a CuNi/graphene Oxide Nanocomposite for Non-enzymatic Glucose Detection. <i>Current Nanomaterials</i> , 2017, 2, .	0.4	2
52	A Novel Turn-On Fluorescent Sensor Based on Sulfur Quantum Dots and MnO ₂ Nanosheet Architectures for Detection of Hydrazine. <i>Nanomaterials</i> , 2022, 12, 2207.	4.1	2
53	Electrochemiluminescent determination of CYFRA21-1 serum levels using Ti-Fe-O nanotubes immunoassay. <i>Mikrochimica Acta</i> , 2022, 189, 136.	5.0	1