Huan-bao Fa

List of Publications by Year
in descending order

56 papers	1,525 citations	331670 21 h-index	330143 37 g-index
56 all docs	56 docs citations	56 times ranked	2068 citing authors

#	Article	IF	Citations
1	Electrochemical Sensor Based on Biomass Yeast Integrated Sulfurâ€doped Graphene and Carboxylated Carbon Nanotubes/MoS₂ for Highlyâ€sensitive Detection of Pb²⁺. Electroanalysis, 2023, 35, .	2.9	4
2	Simultaneous Electrochemical Detection of Co-Existing Dihydroxybenzene Isomers Using Porphyrin Zr Metal-Organic Frameworks/Î²-cyclodextrin/Pencil Graphite Electrode. IEEE Sensors Journal, 2022, 22, 2993-3000.	4.7	3
3	Novel nitrogen-doped carbon dots for â€œturn-onâ€•sensing of ATP based on aggregation induced emission enhancement effect. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 273, 121044.	3.9	5
4	Recent progress and applications of niobium-based nanomaterials and their composites for supercapacitors and hybrid ion capacitors. Sustainable Energy and Fuels, 2021, 5, 3039-3083.	4.9	20
5	A high efficiency N, P doped porous carbon nanoparticles derived from lotus leaves for simultaneous electrochemical determination of ascorbic acid, dopamine, and uric acid. Microchemical Journal, 2021, 165, 106152.	4.5	28
6	Plasmon-Driven Interfacial Catalytic Reactions in Plasmonic MOF Nanoparticles. Analytical Chemistry, 2021, 93, 13219-13225.	6.5	19
7	A novel electrochemical aptasensor for the sensitive detection of kanamycin based on UiO-66-NH₂/MCA/MWCNT@rGONR nanocomposites. Analytical Methods, 2020, 12, 4967-4976.	2.7	41
8	Fabrication of S-MoSe2/NSG/Au/MIPs imprinted composites for electrochemical detection of dopamine based on synergistic effect. Microchemical Journal, 2020, 156, 104845.	4.5	20
9	A zeolitic imidazolate framework/carbon nanofiber nanocomposite based electrochemical sensor for simultaneous detection of co-existing dihydroxybenzene isomers. Sensors and Actuators B: Chemical, 2020, 320, 128294.	7.8	45
10	An Ultrasensitive Electrochemical DNA Biosensor Based on Carboxylated Multi-walled Carbon Nanotube/Molybdenum Disulfide Composites for KRAS Gene Detection. Analytical Sciences, 2019, 35, 441-448.	1.6	12
11	Dual-signal aptamer sensor based on polydopamine-gold nanoparticles and exonuclease I for ultrasensitive malathion detection. Sensors and Actuators B: Chemical, 2019, 287, 428-436.	7.8	83
12	Fast recognition of trace volatile compounds with a nanoporous dyes-based colorimetric sensor array. Talanta, 2019, 192, 407-417.	5.5	19
13	Fluorescent sensor for indirect measurement of methyl parathion based on alkaline-induced hydrolysis using N-doped carbon dots. Talanta, 2019, 192, 368-373.	5.5	54
14	A multi-functional minimally-disruptive portable electrochemical system based on yeast/Co3O4/Au/SPEs for blood lead (II) measurement. Bioelectrochemistry, 2019, 126, 156-162.	4.6	5
15	A promising graphitic N-dominated porous carbon catalyst derived from lotus leaves for oxygen reduction reaction. Ionics, 2018, 24, 3601-3609.	2.4	8
16	A regenerative and selective electrochemical aptasensor based on copper oxide nanoflowers-single walled carbon nanotubes nanocomposite for chlorpyrifos detection. Talanta, 2018, 178, 1046-1052.	5.5	99
17	A sensitive label-free electrochemical immunosensor for detection of cytokeratin 19 fragment antigen 21-1 based on 3D graphene with gold nanopaticle modified electrode. Talanta, 2018, 178, 122-128.	5.5	75
18	A sandwich-type electrochemical immunoassay for ultrasensitive detection of non-small cell lung cancer biomarker CYFRA21-1. Bioelectrochemistry, 2018, 120, 183-189.	4.6	55

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19	Highly Sensitive Fluorescent Sensor for Cartap Based on Fluorescence Resonance Energy Transfer Between Gold Nanoparticles and Rhodamine B. Journal of Nanoscience and Nanotechnology, 2018, 18, 2441-2449.	0.9	7
20	Detection of Carbendazim Residues in Aqueous Samples by Fluorescent Quenching of Plant Esterase. Journal of Applied Spectroscopy, 2018, 85, 535-542.	0.7	5
21	Rapid and ultrasensitive detection of biogenic amines with colorimetric sensor array. Sensors and Actuators B: Chemical, 2018, 274, 464-471.	7.8	79
22	Electrochemical sensor using graphene/Fe3O4 nanosheets functionalized with garlic extract for the detection of lead ion. Journal of Solid State Electrochemistry, 2018, 22, 3515-3525.	2.5	15
23	A core-shell MWCNT@rGONR heterostructure modified glassy carbon electrode for ultrasensitive electrochemical detection of glutathione. Sensors and Actuators B: Chemical, 2018, 274, 433-440.	7.8	26
24	An enhanced oxime-based biomimetic electrochemical sensor modified with multifunctional AuNPsâ€“Co3O4â€“NG composites for dimethoate determination. Research on Chemical Intermediates, 2018, 44, 6689-6702.	2.7	10
25	Electrochemical biomimetic sensor based on oxime group-functionalized gold nanoparticles and nitrogen-doped graphene composites for highly selective and sensitive dimethoate determination. Journal of Solid State Electrochemistry, 2017, 21, 2117-2128.	2.5	18
26	Highly Selective and Sensitive Colorimetric Sensor for Aminotriazole Residues in Vegetables and Fruits Using Glutathione Functionalized Gold Nanoparticles. Journal of Nanoscience and Nanotechnology, 2017, 17, 4733-4739.	0.9	1
27	Capillarity-based preparation system for optical colorimetric sensor arrays. Review of Scientific Instruments, 2017, 88, 035111.	1.3	2
28	Hyaluronan functionalizing QDs as turn-on fluorescent probe for targeted recognition CD44 receptor. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	1
29	Design of L-cysteine functionalized Au@SiO2@Fe3O4/nitrogen-doped graphene nanocomposite and its application in electrochemical detection of Pb2+. Chemical Research in Chinese Universities, 2017, 33, 951-957.	2.6	9
30	3DGH-Fc based electrochemical sensor for the simultaneous determination of ascorbic acid, dopamine and uric acid. Journal of Electroanalytical Chemistry, 2017, 799, 459-467.	3.8	41
31	A highâ€“selectivity electrochemical sensor for ultra-trace lead (II) detection based on a nanocomposite consisting of nitrogen-doped graphene/gold nanoparticles functionalized with ETBD and Fe3O4@TiO2 coreâ€“shell nanoparticles. Sensors and Actuators B: Chemical, 2017, 242, 889-896.	7.8	36
32	A biomimetic sensor based on specific receptor ETBD and Fe3O4@Au/MoS2/GN for signal enhancement shows highly selective electrochemical response to ultra-trace lead (II). Journal of Solid State Electrochemistry, 2017, 21, 3257-3268.	2.5	10
33	A novel detector using a fluorescent sensor array and discrimination of pesticides. Research on Chemical Intermediates, 2016, 42, 7359-7374.	2.7	10
34	An electrochemical DNA biosensor based on nitrogen-doped graphene/Au nanoparticles for human multidrug resistance gene detection. Biosensors and Bioelectronics, 2016, 85, 684-691.	10.1	103
35	A Novel Electrochemical Biosensor Based on Graphene and Cu Nanowires Hybrid Nanocomposites. Nano, 2016, 11, 1650128.	1.0	11
36	A dual read-out molecularly imprinted composite membrane sensor based on zinc porphyrin for the detection of dimethyl methylphosphonate. Chemical Research in Chinese Universities, 2016, 32, 725-730.	2.6	8

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37	Colorimetric detection of Cr (VI) based on the leaching of gold nanoparticles using a paper-based sensor. Talanta, 2016, 161, 819-825.	5.5	93
38	Highly sensitive colorimetric and fluorescent sensor for cyanazine based on the inner filter effect of gold nanoparticles. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	9
39	A selective and sensitive sensor based on highly dispersed cobalt porphyrin-Co3O4-graphene oxide nanocomposites for the detection of methyl parathion. Journal of Solid State Electrochemistry, 2016, 20, 599-607.	2.5	34
40	A sensitive electrochemical sensor for lead based on gold nanoparticles/nitrogen-doped graphene composites functionalized with l-cysteine-modified electrode. Journal of Solid State Electrochemistry, 2016, 20, 327-335.	2.5	44
41	A novel device based on a fluorescent cross-responsive sensor array for detecting lung cancer related volatile organic compounds. Review of Scientific Instruments, 2015, 86, 025106.	1.3	8
42	A highly sensitive electrochemical DNA biosensor for rapid detection of CYFRA21-1, a marker of non-small cell lung cancer. Analytical Methods, 2015, 7, 9466-9473.	2.7	35
43	Mesoporous silica-coated quantum dots functionalized with folic acid for lung cancer cell imaging. Analytical Methods, 2015, 7, 9649-9654.	2.7	11
44	Synthesis and optical properties of 4-(2-{[6-(1,1-dicyanoprop-1-en-2-yl)naphthalen-2-yl] (methyl)amino}) Tj ETQq0 0 0 rgBT /Overlock 10 41, 3243-3260.	2.7	2
45	AN ELECTRODE MODIFIED WITH AuNPs/GRAPHENE NANOCOMPOSITES FILM FOR THE DETERMINATION OF METHYL PARATHION RESIDUES. Nano, 2014, 09, 1450096.	1.0	3
46	Development of a colorimetric sensor Array for the discrimination of aldehydes. Sensors and Actuators B: Chemical, 2014, 196, 10-17.	7.8	66
47	Synthesis of superparamagnetic iron oxide nanoparticles coated with a DDNP-carboxyl derivative for in vitro magnetic resonance imaging of Alzheimer's disease. Materials Science and Engineering C, 2014, 37, 348-355.	7.3	40
48	Colorimetric artificial nose for identification of breath volatile organic compounds of patients with lung cancer. Chemical Research in Chinese Universities, 2014, 30, 572-577.	2.6	8
49	Discrimination of Chinese green tea according to varieties and grade levels using artificial nose and tongue based on colorimetric sensor arrays. Food Chemistry, 2014, 145, 639-645.	8.2	103
50	Discrimination of Lung Cancer Related Volatile Organic Compounds with a Colorimetric Sensor Array. Analytical Letters, 2013, 46, 2048-2059.	1.8	14
51	Electropolymerization of CoTPP and its catalytic performance for oxygen-reduction reaction in an acid medium. Journal of Solid State Electrochemistry, 2013, 17, 3095-3099.	2.5	11
52	Molecularly imprinted polymeric microspheres with metalloporphyrin-based molecular recognition sites coassembled with methacrylic acid. High Performance Polymers, 2013, 25, 790-797.	1.8	4
53	Photochemical and electrochemical properties of porphyrin dimers containing an anhydride spacer. Journal of Coordination Chemistry, 2009, 62, 1151-1161.	2.2	13
54	Molecular interactions of monosulfonate tetraphenylporphyrin (TPPS1) and meso-tetra(4-sulfonatophenyl)porphyrin (TPPS) with dimethyl methylphosphonate (DMMP). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 74, 336-343.	3.9	26

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55	Chiral Recognition of Mesoporous SBA-15 with an Incorporated Chiral Porphyrin. European Journal of Inorganic Chemistry, 2006, 2006, 4355-4361.	2.0	12
56	Simultaneous Electrochemical Detection of Ascorbic Acid, Dopamine and Uric Acid Using the Composite Materials of Fe3O4 and Nitrogen Self-Doped Sunflower Plate-Derived Carbon. Nano, 0, , .	1.0	2