

Huan-bao Fa

List of Publications by Year in descending order

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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	Discrimination of Chinese green tea according to varieties and grade levels using artificial nose and tongue based on colorimetric sensor arrays. <i>Food Chemistry</i> , 2014, 145, 639-645.	8.2	103
2	An electrochemical DNA biosensor based on nitrogen-doped graphene/Au nanoparticles for human multidrug resistance gene detection. <i>Biosensors and Bioelectronics</i> , 2016, 85, 684-691.	10.1	103
3	A regenerative and selective electrochemical aptasensor based on copper oxide nanoflowers-single walled carbon nanotubes nanocomposite for chlorpyrifos detection. <i>Talanta</i> , 2018, 178, 1046-1052.	5.5	99
4	Colorimetric detection of Cr (VI) based on the leaching of gold nanoparticles using a paper-based sensor. <i>Talanta</i> , 2016, 161, 819-825.	5.5	93
5	Dual-signal aptamer sensor based on polydopamine-gold nanoparticles and exonuclease I for ultrasensitive malathion detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 428-436.	7.8	83
6	Rapid and ultrasensitive detection of biogenic amines with colorimetric sensor array. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 464-471.	7.8	79
7	A sensitive label-free electrochemical immunosensor for detection of cytokeratin 19 fragment antigen 21-1 based on 3D graphene with gold nanoparticle modified electrode. <i>Talanta</i> , 2018, 178, 122-128.	5.5	75
8	Development of a colorimetric sensor Array for the discrimination of aldehydes. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 10-17.	7.8	66
9	A sandwich-type electrochemical immunoassay for ultrasensitive detection of non-small cell lung cancer biomarker CYFRA21-1. <i>Bioelectrochemistry</i> , 2018, 120, 183-189.	4.6	55
10	Fluorescent sensor for indirect measurement of methyl parathion based on alkaline-induced hydrolysis using N-doped carbon dots. <i>Talanta</i> , 2019, 192, 368-373.	5.5	54
11	A zeolitic imidazolate framework/carbon nanofiber nanocomposite based electrochemical sensor for simultaneous detection of co-existing dihydroxybenzene isomers. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128294.	7.8	45
12	A sensitive electrochemical sensor for lead based on gold nanoparticles/nitrogen-doped graphene composites functionalized with l-cysteine-modified electrode. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 327-335.	2.5	44
13	3DGH-Fc based electrochemical sensor for the simultaneous determination of ascorbic acid, dopamine and uric acid. <i>Journal of Electroanalytical Chemistry</i> , 2017, 799, 459-467.	3.8	41
14	A novel electrochemical aptasensor for the sensitive detection of kanamycin based on UiO-66-NH ₂ /MCA/MWCNT@rGONR nanocomposites. <i>Analytical Methods</i> , 2020, 12, 4967-4976.	2.7	41
15	Synthesis of superparamagnetic iron oxide nanoparticles coated with a DDNP-carboxyl derivative for in vitro magnetic resonance imaging of Alzheimer's disease. <i>Materials Science and Engineering C</i> , 2014, 37, 348-355.	7.3	40
16	A highly selective electrochemical sensor for ultra-trace lead (II) detection based on a nanocomposite consisting of nitrogen-doped graphene/gold nanoparticles functionalized with ETBD and Fe ₃ O ₄ @TiO ₂ core-shell nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 889-896.	7.8	36
17	A highly sensitive electrochemical DNA biosensor for rapid detection of CYFRA21-1, a marker of non-small cell lung cancer. <i>Analytical Methods</i> , 2015, 7, 9466-9473.	2.7	35
18	A selective and sensitive sensor based on highly dispersed cobalt porphyrin-Co ₃ O ₄ -graphene oxide nanocomposites for the detection of methyl parathion. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 599-607.	2.5	34

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19	A high efficiency N, P doped porous carbon nanoparticles derived from lotus leaves for simultaneous electrochemical determination of ascorbic acid, dopamine, and uric acid. <i>Microchemical Journal</i> , 2021, 165, 106152.	4.5	28
20	Molecular interactions of monosulfonate tetraphenylporphyrin (TPPS1) and meso-tetra(4-sulfonatophenyl)porphyrin (TPPS) with dimethyl methylphosphonate (DMMP). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 336-343.	3.9	26
21	A core-shell MWCNT@rGONR heterostructure modified glassy carbon electrode for ultrasensitive electrochemical detection of glutathione. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 433-440.	7.8	26
22	Fabrication of S-MoSe ₂ /NSG/Au/MIPs imprinted composites for electrochemical detection of dopamine based on synergistic effect. <i>Microchemical Journal</i> , 2020, 156, 104845.	4.5	20
23	Recent progress and applications of niobium-based nanomaterials and their composites for supercapacitors and hybrid ion capacitors. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3039-3083.	4.9	20
24	Fast recognition of trace volatile compounds with a nanoporous dyes-based colorimetric sensor array. <i>Talanta</i> , 2019, 192, 407-417.	5.5	19
25	Plasmon-Driven Interfacial Catalytic Reactions in Plasmonic MOF Nanoparticles. <i>Analytical Chemistry</i> , 2021, 93, 13219-13225.	6.5	19
26	Electrochemical biomimetic sensor based on oxime group-functionalized gold nanoparticles and nitrogen-doped graphene composites for highly selective and sensitive dimethoate determination. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2117-2128.	2.5	18
27	Electrochemical sensor using graphene/Fe ₃ O ₄ nanosheets functionalized with garlic extract for the detection of lead ion. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3515-3525.	2.5	15
28	Discrimination of Lung Cancer Related Volatile Organic Compounds with a Colorimetric Sensor Array. <i>Analytical Letters</i> , 2013, 46, 2048-2059.	1.8	14
29	Photochemical and electrochemical properties of porphyrin dimers containing an anhydride spacer. <i>Journal of Coordination Chemistry</i> , 2009, 62, 1151-1161.	2.2	13
30	Chiral Recognition of Mesoporous SBA-15 with an Incorporated Chiral Porphyrin. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 4355-4361.	2.0	12
31	An Ultrasensitive Electrochemical DNA Biosensor Based on Carboxylated Multi-walled Carbon Nanotube/Molybdenum Disulfide Composites for KRAS Gene Detection. <i>Analytical Sciences</i> , 2019, 35, 441-448.	1.6	12
32	Electropolymerization of CoTPP and its catalytic performance for oxygen-reduction reaction in an acid medium. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 3095-3099.	2.5	11
33	Mesoporous silica-coated quantum dots functionalized with folic acid for lung cancer cell imaging. <i>Analytical Methods</i> , 2015, 7, 9649-9654.	2.7	11
34	A Novel Electrochemical Biosensor Based on Graphene and Cu Nanowires Hybrid Nanocomposites. <i>Nano</i> , 2016, 11, 1650128.	1.0	11
35	A novel detector using a fluorescent sensor array and discrimination of pesticides. <i>Research on Chemical Intermediates</i> , 2016, 42, 7359-7374.	2.7	10
36	An enhanced oxime-based biomimetic electrochemical sensor modified with multifunctional AuNPs@Co ₃ O ₄ @NG composites for dimethoate determination. <i>Research on Chemical Intermediates</i> , 2018, 44, 6689-6702.	2.7	10

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37	A biomimetic sensor based on specific receptor ETBD and Fe ₃ O ₄ @Au/MoS ₂ /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
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	Design of L-cysteine functionalized Au@SiO ₂ @Fe ₃ O ₄ /nitrogen-doped graphene nanocomposite and its application in electrochemical detection of Pb ²⁺ . Chemical Research in Chinese Universities, 2017, 33, 951-957.	2.6	9
40	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
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 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
43	A promising graphitic N-dominated porous carbon catalyst derived from lotus leaves for oxygen reduction reaction. Ionics, 2018, 24, 3601-3609.	2.4	8
44	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
45	Detection of Carbendazim Residues in Aqueous Samples by Fluorescent Quenching of Plant Esterase. Journal of Applied Spectroscopy, 2018, 85, 535-542.	0.7	5
46	A multi-functional minimally-disruptive portable electrochemical system based on yeast/Co ₃ O ₄ /Au/SPEs for blood lead (II) measurement. Bioelectrochemistry, 2019, 126, 156-162.	4.6	5
47	Novel nitrogen-doped carbon dots for "turn-on" sensing of ATP based on aggregation induced emission enhancement effect. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 273, 121044.	3.9	5
48	Molecularly imprinted polymeric microspheres with metalloporphyrin-based molecular recognition sites coassembled with methacrylic acid. High Performance Polymers, 2013, 25, 790-797.	1.8	4
49	Electrochemical Sensor Based on Biomass Yeast Integrated Sulfur-doped Graphene and Carboxylated Carbon Nanotubes/MoS ₂ for Highly Sensitive Detection of Pb ²⁺ . Electroanalysis, 2023, 35, .	2.9	4
50	AN ELECTRODE MODIFIED WITH AuNPs/GRAPHENE NANOCOMPOSITES FILM FOR THE DETERMINATION OF METHYL PARATHION RESIDUES. Nano, 2014, 09, 1450096.	1.0	3
51	Simultaneous Electrochemical Detection of Co-Existing Dihydroxybenzene Isomers Using Porphyrin Zr Metal-Organic Frameworks/β ² -cyclodextrin/Pencil Graphite Electrode. IEEE Sensors Journal, 2022, 22, 2993-3000.	4.7	3
52	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
53	Capillarity-based preparation system for optical colorimetric sensor arrays. Review of Scientific Instruments, 2017, 88, 035111.	1.3	2
54	Simultaneous Electrochemical Detection of Ascorbic Acid, Dopamine and Uric Acid Using the Composite Materials of Fe ₃ O ₄ and Nitrogen Self-Doped Sunflower Plate-Derived Carbon. Nano, 0, , .	1.0	2

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55	Highly Selective and Sensitive Colorimetric Sensor for Aminotriazole Residues in Vegetables and Fruits Using Glutathione Functionalized Gold Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4733-4739.	0.9	1
56	Hyaluronan functionalizing QDs as turn-on fluorescent probe for targeted recognition CD44 receptor. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	1