

Graphene Aerogel-Organic Framework-Based Simultaneous Detection of Multiple Heavy-Metal Ions

Analytical Chemistry

91, 888-895

DOI: [10.1021/acs.analchem.8b03764](https://doi.org/10.1021/acs.analchem.8b03764)

Citation Report

#	ARTICLE	IF	CITATIONS
3	Recent progress in metal-organic frameworks-based hydrogels and aerogels and their applications. <i>Coordination Chemistry Reviews</i> , 2019, 398, 213016.	9.5	414
4	Embedded Au Nanoparticles-Based Ratiometric Electrochemical Sensing Strategy for Sensitive and Reliable Detection of Copper Ions. <i>Analytical Chemistry</i> , 2019, 91, 12006-12013.	3.2	70
5	Graphene Oxide@Silver Nanowire Nanocomposites for Enhanced Sensing of Hg ²⁺ . <i>ACS Applied Nano Materials</i> , 2019, 2, 4842-4851.	2.4	62
6	Construction of Tb-MOF-on-Fe-MOF conjugate as a novel platform for ultrasensitive detection of carbohydrate antigen 125 and living cancer cells. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111536.	5.3	153
7	A fluorometric lead(II) assay by using a DNA dendrimer as a carrier for the immobilization of the signal probe. <i>Mikrochimica Acta</i> , 2019, 186, 582.	2.5	10
8	Highly stable reduced graphene oxide-encapsulated Ce-MOF composite as sensing material for electrochemically detecting dichlorophen. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113268.	1.9	46
9	Influence of the application of irrigated water-soluble calcium fertilizer on wine grape properties. <i>PLoS ONE</i> , 2019, 14, e0222104.	1.1	10
10	Recent Advances of Porous Graphene: Synthesis, Functionalization, and Electrochemical Applications. <i>Small</i> , 2019, 15, e1903780.	5.2	144
11	Versatile Aerogels for Sensors. <i>Small</i> , 2019, 15, e1902826.	5.2	94
12	A review of the advanced developments of electrochemical sensors for the detection of toxic and bioactive molecules. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3418-3439.	3.0	91
13	Wavelength distinguishable signal quenching and enhancing toward photoactive material 3,4,9,10-perylenetetracarboxylic dianhydride for simultaneous assay of dual metal ions. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111702.	5.3	18
14	A Ca ²⁺ MOF combining highly efficient sorption and capability for voltammetric determination of heavy metal ions in aqueous media. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15432-15443.	5.2	72
15	Metal-Organic Frameworks-Based Electrochemical Sensors and Biosensors. <i>International Journal of Electrochemical Science</i> , 2019, 14, 5287-5304.	0.5	42
16	Rapid assessment of heavy metal pollution using ion-exchange resin sachets and micro-XRF core-scanning. <i>Scientific Reports</i> , 2019, 9, 6601.	1.6	23
17	Self-assembly of 3D MnO ₂ /N-doped graphene hybrid aerogel for catalytic degradation of water pollutants: Structure-dependent activity. <i>Chemical Engineering Journal</i> , 2019, 369, 1049-1058.	6.6	93
18	Strategy for Highly Sensitive Electrochemical Sensing: In Situ Coupling of a Metal@Organic Framework with Ball-Mill-Exfoliated Graphene. <i>Analytical Chemistry</i> , 2019, 91, 6043-6050.	3.2	53
19	Large scale fabrication of disposable carbon cloth electrochemical sensors for simultaneous determination of heavy metal ion. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 328-337.	1.9	23
20	Nanocomposites of Zr(IV)-Based Metal@Organic Frameworks and Reduced Graphene Oxide for Electrochemically Sensing Ciprofloxacin in Water. <i>ACS Applied Nano Materials</i> , 2019, 2, 2367-2376.	2.4	139

#	ARTICLE	IF	CITATIONS
21	Ru-MOFs Modified Microelectrode for Trace Mercury Detection. , 2019, , .		0
22	Chemically modified electrodes with MOFs for the determination of inorganic and organic analytes via voltammetric techniques: a critical review. Inorganic Chemistry Frontiers, 2019, 6, 3440-3455.	3.0	38
23	A simple but efficient fluorescent sensor for ratiometric sensing of Cd ²⁺ and bio-imaging studies. Sensors and Actuators B: Chemical, 2020, 303, 127216.	4.0	52
24	Highly Sensitive and Selective Detection of Pb(II) by NH ₂ -SiO ₂ /Ru(bpy) ₃ ²⁺ /UiO66 based Solid-state ECL Sensor. Electroanalysis, 2020, 32, 462-469.	1.5	15
25	Calix[4]arene-based [Co ⁴⁺] complex/ordered mesoporous carbon as a high-performance electrocatalyst for efficient detection of baicalein. Sensors and Actuators B: Chemical, 2020, 308, 127677.	4.0	13
26	Facile fabrication and enhanced properties of copper-based metal organic framework incorporated with graphene for non-enzymatic detection of hydrogen peroxide. Synthetic Metals, 2020, 260, 116272.	2.1	35
27	Highly efficient SnS-decorated Bi ₂ O ₃ nanosheets for simultaneous electrochemical detection and removal of Cd(II) and Pb(II). Journal of Electroanalytical Chemistry, 2020, 856, 113744.	1.9	53
28	Covalently crosslinked zirconium-based metal-organic framework aerogel monolith with ultralow-density and highly efficient Pb(II) removal. Journal of Colloid and Interface Science, 2020, 561, 211-219.	5.0	63
29	Recent developments in three-dimensional graphene-based electrochemical sensors for food analysis. Trends in Food Science and Technology, 2020, 105, 76-92.	7.8	45
30	Highly selective and sensitive detection towards cationic Cu ²⁺ and Fe ³⁺ contaminants via an In-MOF based dual-responsive fluorescence probe. Inorganic Chemistry Communication, 2020, 122, 108273.	1.8	29
31	Analyzing the anodic stripping square wave voltammetry of heavy metal ions via machine learning: Information beyond a single voltammetric peak. Journal of Electroanalytical Chemistry, 2020, 872, 113934.	1.9	23
32	Engineering multi-shell Mn-Co oxide for ultrasensitive electroanalysis of Pb(II) in mining subsidence area water with promotion of adsorption and electron mediation: Behaviors and mechanisms of Mn(II)/Mn(III) and Co(II)/Co(III) cycles. Electrochimica Acta, 2020, 360, 136991.	2.6	10
33	Synthesis and Characterization of Ru-MOFs on Microelectrode for Trace Mercury Detection. Sensors, 2020, 20, 6686.	2.1	8
34	Aminotetrazole-Functionalized SiO ₂ Coated MgO Nanoparticle Composites for Removal of Acid Fuchsin Dye and Detection of Heavy Metal Ions. ACS Applied Nano Materials, 2020, 3, 11203-11216.	2.4	39
35	Highly selective and sensitive dual-fluorescent probe for cationic Pb ²⁺ and anionic Cr ₂ O ₇ ²⁻ , CrO ₄ ²⁻ contaminants via a powerful indium-organic framework. Journal of Solid State Chemistry, 2020, 291, 121672.	1.4	17
36	Simultaneous Determination of Cd ²⁺ , Cu ²⁺ , Pb ²⁺ and Hg ²⁺ Based on 1,4-Benzenedithiol-2,5-diamino-hydrochloride-1,3,5-triformylbenzene Covalent-Organic Frameworks. ChemistrySelect, 2020, 5, 12345-12352.	0.7	7
37	The structural design of polyacrylonitrile fibre-based colorimetric sensors and their synergistic interaction mechanism for Cu ²⁺ detection. Journal of Materials Science, 2020, 55, 16806-16821.	1.7	5
38	Voltammetric Determination of Pb(II) by a Ca-MOF-Modified Carbon Paste Electrode Integrated in a 3D-Printed Device. Sensors, 2020, 20, 4442.	2.1	12

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39	PVDF/SiO ₂ -g-CDs blended membrane for fluorescence detection and adsorption of metal ions. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 1648-1661.	1.2	2
40	Application of carbon nanotubes and graphene to develop the heavy metal electrochemical sensor. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 479, 012036.	0.2	2
41	Fluorescence determination of trace level of cadmium with pyrene modified nanocrystalline cellulose in food and soil samples. <i>Food and Chemical Toxicology</i> , 2020, 146, 111847.	1.8	39
42	Highly sensitive detection of Pb ²⁺ and Cu ²⁺ based on ZIF-67/MWCNT/Nafion-modified glassy carbon electrode. <i>Analytica Chimica Acta</i> , 2020, 1124, 166-175.	2.6	46
43	Metallic 1T Phase Tungsten Disulfide Microflowers for Trace Level Detection of Hg ²⁺ ions. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000068.	2.7	12
44	Porous Magnetic Nanoparticles-Based Electrochemical Biosensor for Determination of Mercury in the Aquatic Environment. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 2000074.	1.2	1
45	Facile synthesis of zirconium-organic frameworks@biomass-derived porous graphitic nanocomposites: Arsenic adsorption performance and mechanism. <i>Journal of Molecular Liquids</i> , 2020, 314, 113552.	2.3	19
46	Insights into the role of pyrrole doped in three-dimensional graphene aerogels for electrochemical sensing Cd(II). <i>Journal of Electroanalytical Chemistry</i> , 2020, 871, 114323.	1.9	17
47	COFBTL-1/three-dimensional macroporous carbon electrode for simultaneous electrochemical detection of Cd ²⁺ , Pb ²⁺ , Cu ²⁺ and Hg ²⁺ . <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128498.	4.0	46
48	Bifunctional MOFs-Based Ratiometric Electrochemical Sensor for Multiplex Heavy Metal Ions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30770-30778.	4.0	112
49	An Electrochemical Sensor for Simultaneous Stripping Determination of Cd(II) and Pb(II) Based on Gold Nanoparticles Functionalized β -cyclodextrin-graphene Hybrids. <i>International Journal of Electrochemical Science</i> , 2020, 15, 1517-1528.	0.5	8
50	Inkjet Printed Multi-walled Carbon Nanotube Sensor for the Detection of Lead in Drinking Water. <i>Electroanalysis</i> , 2020, 32, 1533-1545.	1.5	12
51	Self-template synthesis of flower-like hierarchical graphene/copper oxide@copper(II) metal-organic framework composite for the voltammetric determination of caffeic acid. <i>Mikrochimica Acta</i> , 2020, 187, 258.	2.5	14
52	Recent Electrochemical/Electrical Microfabricated Sensor Devices for Ionic and Polyionic Analytes. <i>ACS Omega</i> , 2020, 5, 4733-4742.	1.6	13
53	3D-printed lab-in-a-syringe voltammetric cell based on a working electrode modified with a highly efficient Ca-MOF sorbent for the determination of Hg(II). <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128508.	4.0	43
54	Simple electrochemical sensing for mercury ions in dairy product using optimal Cu ²⁺ -based metal-organic frameworks as signal reporting. <i>Journal of Hazardous Materials</i> , 2020, 400, 123222.	6.5	40
55	Preparation of a novel Ni-MOF and porous graphene aerogel composite and application for simultaneous electrochemical determination of nitrochlorobenzene isomers with partial least squares. <i>Mikrochimica Acta</i> , 2020, 187, 404.	2.5	6
56	Determination of sunset yellow and tartrazine in drinks using screen-printed carbon electrodes modified with reduced graphene oxide and NiBTC frameworks. <i>Microchemical Journal</i> , 2020, 158, 105133.	2.3	35

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57	Metal-organic framework-based materials as an emerging platform for advanced electrochemical sensing. <i>Coordination Chemistry Reviews</i> , 2020, 410, 213222.	9.5	321
58	A three-dimensional bimetallic oxide NiCo ₂ O ₄ derived from ZIF-67 with a cage-like morphology as an electrochemical platform for Hg ²⁺ detection. <i>Microchemical Journal</i> , 2020, 155, 104762.	2.3	21
59	Single wavelength excited multi-channel nanoMOF sensor for simultaneous and ratiometric imaging of intracellular pH and O ₂ . <i>Journal of Materials Chemistry C</i> , 2020, 8, 3904-3913.	2.7	17
60	A ratiometric electrochemical sensor for simultaneous detection of multiple heavy metal ions based on ferrocene-functionalized metal-organic framework. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127756.	4.0	133
61	Controllable synthesis of an intercalated ZIF-67/EG structure for the detection of ultratrace Cd ²⁺ , Cu ²⁺ , Hg ²⁺ and Pb ²⁺ ions. <i>Chemical Engineering Journal</i> , 2020, 395, 125216.	6.6	147
62	A smartphone-based quantitative point-of-care testing (POCT) system for simultaneous detection of multiple heavy metal ions. <i>Chemical Engineering Journal</i> , 2020, 394, 124966.	6.6	96
63	Practical MOF Nanoarchitectonics: New Strategies for Enhancing the Processability of MOFs for Practical Applications. <i>Langmuir</i> , 2020, 36, 4231-4249.	1.6	86
64	UiO series of metal-organic frameworks composites as advanced sorbents for the removal of heavy metal ions: Synthesis, applications and adsorption mechanism. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111577.	2.9	119
65	Synthesis of stable S- functionalized metal-organic framework using MoS ₄ ²⁻ and its application for selective and efficient removal of toxic heavy metal ions in wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104696.	3.3	14
66	Fabrication of the Ni-based composite wires for electrochemical detection of copper(â€¦) ions. <i>Analytica Chimica Acta</i> , 2021, 1143, 45-52.	2.6	28
67	Recent Progress in Functional Materials for Selective Detection and Removal of Mercury(II) Ions. <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	109
68	A novel copper(â€¦) metalâ€“organic framework as a highly efficient and ultrasensitive electrochemical platform for detection of Hg(â€¦) ions in aqueous solution. <i>CrystEngComm</i> , 2021, 23, 3043-3051.	1.3	5
69	Introducing reticular chemistry into agrochemistry. <i>Chemical Society Reviews</i> , 2021, 50, 1070-1110.	18.7	106
70	Performance of metalâ€“organic frameworks in the electrochemical sensing of environmental pollutants. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8195-8220.	5.2	135
71	Plasmonic photo-assisted electrochemical sensor for detection of trace lead ions based on Au anchored on two-dimensional g-C ₃ N ₄ /graphene nanosheets. <i>Rare Metals</i> , 2021, 40, 1727-1737.	3.6	38
72	Recent progress on electrochemical sensing strategies as comprehensive point-care method. <i>Monatshefte FÃ¼r Chemie</i> , 2021, 152, 1-18.	0.9	15
73	The application of two dimensional materials in bio-sensors. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, .	0.2	0
74	Zero-valent iron nanomaterial Fe ⁰ @Fe ₂ MnO ₄ for ultrasensitive electroanalysis of As(â€¦): Fe ⁰ influenced surficial redox potential. <i>Chemical Communications</i> , 2021, 57, 1324-1327.	2.2	9

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75	Cobalt encapsulated in bamboo-like N-doped carbon nanotubes for highly sensitive electroanalysis of Pb(II): enhancement based on adsorption and catalysis. <i>Analytical Methods</i> , 2021, 13, 2147-2156.	1.3	8
76	Preparation, Characterization of Novel Cadmium-Based Metal-Organic Framework for Using as a Highly Selective and Sensitive Modified Carbon Paste Electrode in Determination of Cu(II) Ion. <i>Comments on Inorganic Chemistry</i> , 2021, 41, 189-212.	3.0	16
77	Applications of MOFs as Luminescent Sensors for Environmental Pollutants. <i>Small</i> , 2021, 17, e2005327.	5.2	177
78	A novel ratiometric electrochemical cupric ion sensing strategy based on unmodified electrode. <i>Analytica Chimica Acta</i> , 2021, 1146, 11-16.	2.6	11
79	A Novel Electrochemical Biosensor based on Layered Hydroxide Nanosheets/DNA Composite for the Determination of Phenformin Hydrochloride. <i>International Journal of Electrochemical Science</i> , 2021, 16, 210237.	0.5	3
80	Research Progress of Electrochemical Detection of Heavy Metal Ions. <i>Chinese Journal of Analytical Chemistry</i> , 2021, 49, 330-340.	0.9	38
81	Multiplexed Detection of Fe ³⁺ , Cobalamin and Folate Using Fluorescent Nanoprobe-Based Microarrays and a Smartphone. <i>Journal of Analysis and Testing</i> , 2021, 5, 19-29.	2.5	15
82	Ultra-sensitive electrochemical aptasensor based on zeolitic imidazolate framework-8 derived Ag/Au core-shell nanoparticles for mercury detection in water samples. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129426.	4.0	34
83	Synthesis of novel coumarin containing conjugated fluorescent polymers by Suzuki cross-coupling reactions and their chemosensing studies for iron and mercury ions. <i>Polymer</i> , 2021, 218, 123415.	1.8	12
84	Review of Metal Organic Framework Based Nanomaterials for Electrochemical Sensing of Toxic Heavy Metal Ions: Progress and Their Prospects. <i>Journal of the Electrochemical Society</i> , 2021, 168, 037513.	1.3	55
85	ZnFe ₂ O ₄ Nanoparticles for Electrochemical Determination of Trace Hg(II), Pb(II), Cu(II), and Glucose. <i>ACS Applied Nano Materials</i> , 2021, 4, 4026-4036.	2.4	48
86	Target-induced activation of DNAzyme for sensitive detection of bleomycin by using a simple MOF-modified electrode. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113034.	5.3	16
87	A UiO-66-NH ₂ /carbon nanotube nanocomposite for simultaneous sensing of dopamine and acetaminophen. <i>Analytica Chimica Acta</i> , 2021, 1158, 338419.	2.6	50
88	Anodic Stripping Voltammetry with the Hanging Mercury Drop Electrode for Trace Metal Detection in Soil Samples. <i>Chemosensors</i> , 2021, 9, 107.	1.8	9
89	Porous walnut-like La ₂ O ₂ CO ₃ derived from metal-organic frameworks for arsenate removal: A study of kinetics, isotherms, and mechanism. <i>Chemosphere</i> , 2021, 271, 129528.	4.2	18
90	Laser-Induced Carbon Electrodes in a Three-Dimensionally Printed Flow Reactor for Detecting Lead Ions. <i>ACS Omega</i> , 2021, 6, 12470-12479.	1.6	4
91	Amorphous B-doped graphitic carbon nitride quantum dots with high photoluminescence quantum yield of near 90% and their sensitive detection of Fe ²⁺ /Cd ²⁺ . <i>Science China Materials</i> , 2021, 64, 3037-3050.	3.5	17
92	A single nucleotide polymorphism electrochemical sensor based on DNA-functionalized Cd-MOFs-74 as cascade signal amplification probes. <i>Mikrochimica Acta</i> , 2021, 188, 266.	2.5	11

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93	A Porous Metal-Organic Framework as an Electrochemical Sensing Platform for Highly Selective Adsorption and Detection of Bisphenols. <i>Inorganic Chemistry</i> , 2021, 60, 12049-12058.	1.9	17
94	Polyethyleneimine-Functionalized Carbon Nanotube/Graphene Oxide Composite: A Novel Sensing Platform for Pb(II) Acetate in Aqueous Solution. <i>ACS Omega</i> , 2021, 6, 18190-18199.	1.6	9
95	A review on the current research on graphene-based aerogels and their applications. <i>Carbon Trends</i> , 2021, 4, 100065.	1.4	43
96	Application of Nanotechnology in Analysis and Removal of Heavy Metals in Food and Water Resources. <i>Nanomaterials</i> , 2021, 11, 1792.	1.9	18
97	TMPyP-bound guanosine-borate supramolecular hydrogel as smart hemoperfusion device with real-time visualized/electrochemical bi-modal monitoring for selective blood lead elimination. <i>Biosensors and Bioelectronics</i> , 2021, 184, 113230.	5.3	3
98	Nitrogen-Doped Zeolitic Imidazolate Framework and Particle-Reduced Graphene Oxide Composites as Electrochemical Sensors and Battery-Type Supercapacitors. <i>ACS Applied Nano Materials</i> , 2021, 4, 7870-7878.	2.4	24
99	Metal-organic frameworks (MOFs) based electrochemical biosensors for early cancer diagnosis in vitro. <i>Coordination Chemistry Reviews</i> , 2021, 439, 213948.	9.5	130
100	Evolution of Supramolecular Systems Towards Next-Generation Biosensors. <i>Frontiers in Chemistry</i> , 2021, 9, 723111.	1.8	9
101	Self-Assembled Co ₃ O ₄ /GO Composites for Excellent Electrochemical Detection of Heavy-Metal Ions. <i>Journal of the Electrochemical Society</i> , 2021, 168, 083503.	1.3	12
102	Ferrocene-functionalized Ni(II)-based metal-organic framework as electrochemical sensing interface for ratiometric analysis of Cu ²⁺ , Pb ²⁺ and Cd ²⁺ . <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115374.	1.9	31
103	One-pot electrodeposition of metal organic frameworks composites accelerated by electroreduced graphene oxide and gold nanoparticles for rutin electroanalysis. <i>Journal of Electroanalytical Chemistry</i> , 2021, 897, 115590.	1.9	9
104	Rapid detection of cadmium ions in meat by a multi-walled carbon nanotubes enhanced metal-organic framework modified electrochemical sensor. <i>Food Chemistry</i> , 2021, 357, 129762.	4.2	47
105	Hierarchical mesoporous metal-organic frameworks encapsulated enzymes: Progress and perspective. <i>Coordination Chemistry Reviews</i> , 2021, 443, 214032.	9.5	59
106	UiO-66 based electrochemical sensor for simultaneous detection of Cd(II) and Pb(II). <i>Inorganic Chemistry Communication</i> , 2021, 131, 108785.	1.8	38
107	A novel magnetic beads-assisted highly-ordered enzyme-free localized DNA cascade reaction for the fluorescence detection of Pb ²⁺ . <i>Sensors and Actuators B: Chemical</i> , 2021, 342, 130040.	4.0	12
108	Fluorescence and electrochemical assay for bimodal detection of lead ions based on Metal-Organic framework nanosheets. <i>Talanta</i> , 2021, 232, 122405.	2.9	30
109	Photo-assisted simultaneous electrochemical detection of multiple heavy metal ions with a metal-free carbon black anchored graphitic carbon nitride sensor. <i>Analytica Chimica Acta</i> , 2021, 1183, 338951.	2.6	32
110	Highly efficient and bifunctional Cd(II)-Organic Framework platform towards Pb(II), Cr(VI) detection and Cr(VI) photoreduction. <i>Journal of Solid State Chemistry</i> , 2021, 302, 122416.	1.4	12

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111	Innovative electrochemical sensor based on graphene oxide aerogel wrapped copper centered metal-organic framework to detect catechol. <i>Journal of Electroanalytical Chemistry</i> , 2021, 899, 115686.	1.9	18
112	Ultrasound-assisted dispersive solid phase extraction for promoting enrichment of ng L ⁻¹ level Hg ²⁺ on ionic liquid coated magnetic materials. <i>Analytica Chimica Acta</i> , 2021, 1181, 338906.	2.6	3
113	GaOOH-modified metal-organic frameworks UiO-66-NH ₂ : Selective and sensitive sensing four heavy-metal ions in real wastewater by electrochemical method. <i>Talanta</i> , 2021, 234, 122679.	2.9	51
114	Unimolecular chemo-fluoro-luminescent probe for simultaneous detection and imaging of peroxynitrite and hypochlorite in vitro and in vivo. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130609.	4.0	11
115	Highly sensitive and selective electrochemical sensor based on porous graphitic carbon nitride/CoMn ₂ O ₄ nanocomposite toward heavy metal ions. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130539.	4.0	46
116	A simple strategy for the detection of Pb(II) and Cu(II) by an electrochemical sensor based on Zn/Ni-ZIF-8/XC-72/Nafion hybrid materials. <i>Environmental Research</i> , 2021, 202, 111605.	3.7	20
117	A novel fluorescent metal-organic framework based on porphyrin and AIE for ultra-high sensitivity and selectivity detection of Pb ²⁺ ions in aqueous solution. <i>Dyes and Pigments</i> , 2021, 196, 109802.	2.0	16
118	A statistical physics analysis of the adsorption of Fe ³⁺ , Al ³⁺ and Cu ²⁺ heavy metals on chitosan films via homogeneous and heterogeneous monolayer models. <i>Journal of Molecular Liquids</i> , 2021, 343, 117617.	2.3	12
119	Visual detection of Cu ²⁺ in high-copper feed based on a fluorescent derivative of rhodamine B. <i>Microchemical Journal</i> , 2021, 171, 106858.	2.3	9
120	Electrochemical detection of heavy metal ions in water. <i>Chemical Communications</i> , 2021, 57, 7215-7231.	2.2	160
121	Recent progress in metal-organic framework/graphene-derived materials for energy storage and conversion: design, preparation, and application. <i>Chemical Science</i> , 2021, 12, 5737-5766.	3.7	79
122	Aerogel and its composites for sensing, adsorption, and photocatalysis. , 2021, , 125-144.		1
123	Novel methodology for anodic stripping voltammetric sensing of heavy-metal ions using Ti ₃ C ₂ T _x nanoribbons. <i>Chemical Communications</i> , 2021, 57, 7790-7793.	2.2	33
124	Materials interacting with inorganic selenium from the perspective of electrochemical sensing. <i>Analyst</i> , The, 2021, 146, 6394-6415.	1.7	6
125	Sensors Applied for the Detection of Pesticides and Heavy Metals in Freshwaters. <i>Journal of Sensors</i> , 2020, 2020, 1-22.	0.6	28
126	Merging of MOFs and Graphene Analogous: Strategies for Enhanced Sensing Properties. <i>Chemistry in the Environment</i> , 2021, , 48-73.	0.2	0
127	Free-electrodeposited anodic stripping voltammetry sensing of Cu(II) based on Ti ₃ C ₂ T _x MXene/carbon black. <i>Mikrochimica Acta</i> , 2021, 188, 377.	2.5	18
128	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. <i>ACS Sensors</i> , 2021, 6, 3841-3881.	4.0	45

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129	Simple fabrication of a hexagonal prisms with hexagonal pyramid tips V ₂ O ₅ @MOF(V, Co) and its application as electrochemical sensor for Pb ²⁺ . <i>Inorganic Chemistry Communication</i> , 2021, 133, 108966.	1.8	11
130	Framework-derived Fe ₂ O ₃ /Mn ₃ O ₄ nanocubes as electrochemical catalyst for simultaneous analysis of Cu(II) and Hg(II). <i>Electrochimica Acta</i> , 2021, 399, 139412.	2.6	10
131	Recent developments in electrochemical detection of cadmium. <i>Trends in Environmental Analytical Chemistry</i> , 2022, 33, e00152.	5.3	33
132	Highly Sensitive and Stable Determination of As(III) under Near-Neutral Conditions: Benefit from the Synergetic Catalysis of Pt Single Atoms and Active S Atoms over Pt ₁ /MoS ₂ . <i>Analytical Chemistry</i> , 2021, 93, 15115-15123.	3.2	20
133	Metal-organic frameworks (MOFs) based chemosensors/biosensors for analysis of food contaminants. <i>Trends in Food Science and Technology</i> , 2021, 118, 569-588.	7.8	113
134	Recent Advances in Electrochemical Sensor and Biosensors for Environmental Contaminants. <i>Nanotechnology in the Life Sciences</i> , 2020, , 1-31.	0.4	1
135	Metal organic frameworks for electrochemical sensor applications: A review. <i>Environmental Research</i> , 2022, 204, 112320.	3.7	102
136	Highly efficient detection of Cd(II) ions by a stannum and cerium bimetal-modified laser-induced graphene electrode in water. <i>Chemical Engineering Journal</i> , 2022, 433, 133791.	6.6	17
137	Light regulated heterojunctions with tunable interfacial energy barriers for sensitive and specific detection of copper ions. <i>Chemical Engineering Journal</i> , 2022, 431, 133880.	6.6	10
138	Simultaneous detection of trace Hg ²⁺ and Ag ⁺ by SERS aptasensor based on a novel cascade amplification in environmental water. <i>Chemical Engineering Journal</i> , 2022, 435, 133879.	6.6	29
139	Design of NiCo ₂ O ₄ nanoparticles decorated N, S co-doped reduced graphene oxide composites for electrochemical simultaneous detection of trace multiple heavy metal ions and hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2022, 433, 133854.	6.6	46
140	N and P co-doped MXenes nanoribbons for electrodeposition-free stripping analysis of Cu(II) and Hg(II). <i>Journal of Hazardous Materials</i> , 2022, 425, 127974.	6.5	27
141	Simultaneous electrochemical sensing of heavy metal ions based on a g-C ₃ N ₄ /CNT/NH ₂ -MIL-88(Fe) nanocomposite. <i>Analytical Methods</i> , 2021, 13, 5830-5837.	1.3	18
142	Fabrication of octahedral GO/UiO-67@PtNPs nanocomposites as an electrochemical sensor for ultrasensitive recognition of arsenic (III) in Chinese Herbal Medicine. <i>Analytica Chimica Acta</i> , 2022, 1195, 339451.	2.6	10
143	Metal-organic frameworks based hybrid nanocomposites as state-of-the-art analytical tools for electrochemical sensing applications. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113867.	5.3	77
144	Two-dimensional material-based functional aerogels for treating hazards in the environment: synthesis, functional tailoring, applications, and sustainability analysis. <i>Nanoscale Horizons</i> , 2022, 7, 112-140.	4.1	30
145	One-Pot Synthesis of Zirconium Based Organic Framework and Walnut Shell Derived Carbon Composites for the Detection of Paracetamol and Para-Aminophenol. <i>Journal of the Electrochemical Society</i> , 2022, 169, 016517.	1.3	4
146	A reliable sensing platform based on tribenzamide for sensitive and selective detection of Pb (II) ions. <i>Inorganic Chemistry Communication</i> , 2022, 138, 109261.	1.8	8

#	ARTICLE	IF	CITATIONS
147	An electrochemical sensor based on a MOF/ZnO composite for the highly sensitive detection of Cu(II) in river water samples. RSC Advances, 2022, 12, 5062-5071.	1.7	9
148	Zirconium metal organic framework based opto-electrochemical sensor for nitrofurazone detection. Journal of Electroanalytical Chemistry, 2022, 909, 116124.	1.9	18
149	Advances in electrochemical detection methods for measuring contaminants of emerging concerns. Electrochemical Science Advances, 2022, 2, .	1.2	19
150	Microspherical Assembly of a Metal Organic Framework Wrapped in Graphene: an Efficient Approach to Prevent Collapse and Aggregation During Carbonization. SSRN Electronic Journal, 0, , .	0.4	0
151	Indandione oligomer@graphene oxide functionalized nanocomposites for enhanced and selective detection of trace Cr ²⁺ and Cu ²⁺ ions. Advanced Composites and Hybrid Materials, 2022, 5, 1582-1594.	9.9	11
152	Colorimetric photonic tongue for metal ions screening. Matter, 2022, 5, 1590-1602.	5.0	8
153	Recent Progress in Metal-Organic Framework Based Fluorescent Sensors for Hazardous Materials Detection. Molecules, 2022, 27, 2226.	1.7	25
154	Recent advancements in metal-organic frameworks composites based electrochemical (bio)sensors. Mikrochimica Acta, 2022, 189, 161.	2.5	20
155	Ti ₃ C ₂ -MXene@N-doped carbon heterostructure-based electrochemical sensor for simultaneous detection of heavy metals. Journal of Electroanalytical Chemistry, 2022, 911, 116239.	1.9	26
156	Electrochemical Synthesis Methods of Metal-Organic Frameworks and Their Environmental Analysis Applications: A Review. ChemElectroChem, 2022, 9, .	1.7	16
157	2-(Anthracen-9-yl)benzothiazole-modified graphene oxide-nickel ferrite nanocomposite for anodic stripping voltammetric detection of heavy metal ions. Mikrochimica Acta, 2022, 189, 186.	2.5	6
158	A Sulfur-Containing Capsule-Based Metal-Organic electrochemical sensor for Super-Sensitive capture and detection of multiple Heavy-Metal ions. Chemical Engineering Journal, 2022, 438, 135639.	6.6	43
159	Advanced MOFs@aerogel composites: Construction and application towards environmental remediation. Journal of Hazardous Materials, 2022, 432, 128684.	6.5	46
160	Simultaneous Electrochemical Detection of Multiple Heavy-Metal Ions Based on Furfural/Reduced Graphene Oxide Composites. Journal of the Electrochemical Society, 2021, 168, 126516.	1.3	7
161	Review-Metal-Organic Frameworks Composites for Electrochemical Detection of Heavy Metal Ions in Aqueous Medium. Journal of the Electrochemical Society, 2022, 169, 047525.	1.3	6
162	Research Progress of Detection for Heavy Metal Ions in Water. Journal of Advances in Physical Chemistry, 2022, 11, 53-61.	0.1	0
163	Simultaneous determination of cadmium(II), lead(II), copper(II) and mercury(II) using an electrode modified by N/S co-doped graphene. New Journal of Chemistry, 2022, 46, 10618-10627.	1.4	5
164	Electrochemical and optical sensors made of composites of metal-organic frameworks and carbon-based materials. A review. Environmental Chemistry Letters, 2022, 20, 3099-3131.	8.3	17

#	ARTICLE	IF	CITATIONS
165	Simultaneous preconcentration and pre-column derivatization for rapid analysis of nitrilotriacetic acid in environmental waters by high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2022, 1674, 463137.	1.8	0
166	Adsorption-Based Removal of Sb (III) from Wastewater by Graphene Oxide-Modified Zirconium-Based Metal-Organic Framework Composites. <i>Adsorption Science and Technology</i> , 2022, 2022, .	1.5	7
167	Carbon dots for multicolor cell imaging and ultra-sensitive detection of multiple ions in living cells: One Stone for multiple Birds. <i>Environmental Research</i> , 2022, 212, 113260.	3.7	8
168	A highly sensitive electrochemical biosensor for Hg ²⁺ based on entropy-driven DNA walker-based amplification. <i>Analytical Methods</i> , 2022, 14, 2504-2510.	1.3	4
169	An electrochemical aptasensor based on intelligent walking DNA nanomachine with cascade signal amplification powered by nuclease for Mucin 1 assay. <i>Analytica Chimica Acta</i> , 2022, 1214, 339964.	2.6	11
170	The electro-oxidation of primary alcohols via a coral-shaped cobalt metal-organic framework modified graphite electrode in neutral media. <i>Scientific Reports</i> , 2022, 12, .	1.6	11
171	Recent advances in electrochemical-based sensors amplified with carbon-based nanomaterials (CNMs) for sensing pharmaceutical and food pollutants. <i>Chemosphere</i> , 2022, 304, 135182.	4.2	35
172	New Schiff base probe for the fluorometric turn-on sensing of Cd ²⁺ ions and bio-imaging application. <i>Journal of Luminescence</i> , 2022, 249, 119017.	1.5	7
173	Application of magnetic nanoparticles modified with L-cysteine for pre-concentration and voltammetric detection of copper(II). <i>Microchemical Journal</i> , 2022, 181, 107652.	2.3	42
174	A wood sponge sensor for heavy metal ion detection and adsorption. <i>Wood Science and Technology</i> , 2022, 56, 1175-1190.	1.4	11
175	High Performance of Carbon Monoxide Gas Sensor Based on a Novel PEDOT:PSS/PPA Nanocomposite. <i>ACS Omega</i> , 2022, 7, 22492-22499.	1.6	17
176	Covalently dual functionalized graphene oxide-based multiplex electrochemical sensor for Hg(II) and Cr(VI) detection. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132165.	4.0	30
177	Rapid Determination of Mercury Ions in Environmental Water Based on an N-Rich Covalent Organic Framework Potential Sensor. <i>International Journal of Chemical Engineering</i> , 2022, 2022, 1-9.	1.4	0
178	Facile Synthesis of Nitrogen Self-Doped Porous Carbon Derived from Cicada Shell via KOH Activation for Simultaneous Detection and Removal of Cu ²⁺ . <i>Molecules</i> , 2022, 27, 4516.	1.7	4
179	Evaluation and development of GO/Uio-67@PtNPs nanohybrid-based electrochemical sensor for invisible arsenic (III) in water samples. <i>Microchemical Journal</i> , 2022, 181, 107765.	2.3	10
180	Multifunctional nanomaterials and nanocomposites for sensing and monitoring of environmentally hazardous heavy metal contaminants. <i>Environmental Research</i> , 2022, 214, 113795.	3.7	17
181	Electrochemical sensing of copper (II) ion in water using bi-metal oxide framework modified glassy carbon electrode. <i>Food and Chemical Toxicology</i> , 2022, 167, 113313.	1.8	23
182	Water-Soluble β -Cyclodextrin Based Turn-On Amplifying Fluorescent Probes for Sensitive and Selective Detection of Hg ²⁺ /Hg ⁺ Ions. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
183	Fabrication of Ultra-Sensitive Modified Electrode for Eco-Friendly Determination of Neurotoxic Heavy Metals in Beef, Dairy Products and Biological Samples. <i>Journal of the Electrochemical Society</i> , 2022, 169, 096502.	1.3	1
184	Catechol redox couple functionalized metal-organic framework UiO-66-NH ₂ as an efficient catalyst for chromium ion sensor in water samples. <i>Journal of Cleaner Production</i> , 2022, 374, 133731.	4.6	6
185	Selective removal of Hg(II) by UiO-66-NH ₂ modified by 4-quinolinecarboxaldehyde: from experiment to mechanism. <i>Environmental Science and Pollution Research</i> , 2023, 30, 2283-2297.	2.7	4
186	Recent Trends and Advances in Porous Metal-Organic Framework Nanostructures for the Electrochemical and Optical Sensing of Heavy Metals in Water. <i>Critical Reviews in Analytical Chemistry</i> , 0, , 1-25.	1.8	13
187	Trends and prospects in graphene and its derivatives toxicity research: A bibliometric analysis. <i>Journal of Applied Toxicology</i> , 2023, 43, 146-166.	1.4	1
188	Recent advances in metal-based nanoporous materials for sensing environmentally-related biomolecules. <i>Chemosphere</i> , 2022, 307, 135999.	4.2	2
189	A stack-up electrochemical device based on metal-organic framework modified carbon paper for ultra-trace lead and cadmium ions detection. <i>Food Chemistry</i> , 2023, 398, 133822.	4.2	12
190	Biomass valorization of walnut shell into biochar as a resource for electrochemical simultaneous detection of heavy metal ions in water and soil samples: Preparation, characterization, and applications. <i>Arabian Journal of Chemistry</i> , 2022, 15, 104252.	2.3	25
191	Synthesis and characterization of UiO-66-NH ₂ incorporated graphene aerogel composites and their utilization for absorption of organic liquids. <i>Carbon</i> , 2023, 201, 561-567.	5.4	10
192	Simultaneous detection of dihydroxybenzene isomers in the environment by a free-standing flexible ZnCo ₂ O ₄ nanoplate arrays/carbon fiber cloth electrode. <i>Science of the Total Environment</i> , 2023, 855, 158878.	3.9	9
193	Electrochemical Properties of a New Coordination Polymer Based on Nitrogen-Rich Ligand. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
194	Electrochemical detection of selected heavy metals in water: a case study of African experiences. <i>RSC Advances</i> , 2022, 12, 26319-26361.	1.7	8
195	Analytical performances of electrochemical sensor based on metal-organic frameworks. , 2022, , 117-133.		0
196	Recent advances in Al(<i>iii</i>)/In(<i>iii</i>)-based MOFs for the detection of pollutants. <i>New Journal of Chemistry</i> , 2022, 46, 19577-19592.	1.4	88
197	Application of graphene aerogels in oil spill recovery: A review. <i>Science of the Total Environment</i> , 2023, 856, 159107.	3.9	25
198	Covalent Organic Frameworks-TpPa-1 as an Emerging Platform for Electrochemical Sensing. <i>Nanomaterials</i> , 2022, 12, 2953.	1.9	8
199	General Strategies to Construct Highly Efficient Sensing Interfaces for Metal Ions Detection from the Perspective of Catalysis. <i>Analytical Chemistry</i> , 2022, 94, 13631-13641.	3.2	9
200	Design and Application of Electrochemical Sensors with Metal-Organic Frameworks as the Electrode Materials or Signal Tags. <i>Nanomaterials</i> , 2022, 12, 3248.	1.9	11

#	ARTICLE	IF	CITATIONS
201	Mini review: Electrochemical electrode based on graphene and its derivatives for heavy metal ions detection. <i>Talanta Open</i> , 2022, 6, 100153.	1.7	3
202	Synthesis, structure, and electrochemical properties of a novel coordination polymer based on a nitrogen-rich ligand. <i>Journal of Solid State Chemistry</i> , 2022, 316, 123613.	1.4	9
203	Flexible ligand-encapsulated dual-emission metal-organic framework. <i>Dalton Transactions</i> , 2022, 51, 17895-17901.	1.6	10
204	Simultaneous detection of Lead and Cadmium using a composite of Zeolite Imidazole Framework and Reduced Graphene Oxide (ZIF-67/rGO) via electrochemical approach. <i>Environmental Engineering Research</i> , 2023, 28, 220269-0.	1.5	1
206	Tuning Iron-Oxygen Covalency in Perovskite Oxides for Efficient Electrochemical Sensing. <i>Journal of Physical Chemistry C</i> , 2022, 126, 17618-17626.	1.5	0
207	Insights into the Fe oxidation state of sphere-like Fe ₂ O ₃ nanoparticles for simultaneous Pb ²⁺ and Cu ²⁺ detection. <i>Journal of Alloys and Compounds</i> , 2023, 934, 167863.	2.8	14
208	Structure optimization of graphene aerogel-based composites and applications in batteries and supercapacitors. <i>Chemical Engineering Journal</i> , 2023, 454, 140094.	6.6	20
209	Atomically thin bismuthene nanosheets for sensitive electrochemical determination of heavy metal ions. <i>Analytica Chimica Acta</i> , 2022, 1235, 340510.	2.6	12
210	Fabrication strategies for metal-organic framework electrochemical biosensors and their applications. <i>Coordination Chemistry Reviews</i> , 2023, 475, 214814.	9.5	46
211	Novel strategies for the formulation and processing of aluminum metal-organic framework-based sensing systems toward environmental monitoring of metal ions. <i>Journal of Hazardous Materials</i> , 2023, 444, 130422.	6.5	4
212	Compressible metal-organic framework-nanofibrous reinforced chitosan aerogel for efficient removal of Pb(II) ions. <i>Materials Today Communications</i> , 2022, 33, 104917.	0.9	1
213	Graphene Synthesis Techniques and Environmental Applications. <i>Materials</i> , 2022, 15, 7804.	1.3	20
214	Tuning the Surface Functionality of Fe ₃ O ₄ for Sensitive and Selective Detection of Heavy Metal Ions. <i>Sensors</i> , 2022, 22, 8895.	2.1	2
215	Water-soluble β -cyclodextrin based turn-on amplifying fluorescent probes for sensitive and selective detection of Hg ²⁺ /Hg ⁺ ions. <i>Sensors and Actuators B: Chemical</i> , 2023, 377, 133060.	4.0	10
216	Highly efficient detection of Cd(II) ions in water by graphitic carbon nitride and tin dioxide nanoparticles modified glassy carbon electrode. <i>Inorganic Chemistry Communication</i> , 2023, 148, 110321.	1.8	7
217	Highly efficient and simultaneous magnetic solid phase extraction of heavy metal ions from water samples with L-Cysteine modified magnetic polyamidoamine dendrimers prior to high performance liquid chromatography. <i>Chemosphere</i> , 2023, 313, 137340.	4.2	12
218	Simultaneous electrochemical detection of multiple heavy metal ions in milk based on silica-modified magnetic nanoparticles. <i>Food Chemistry</i> , 2023, 406, 135034.	4.2	15
219	Construction of molecular logic gates using heavy metal ions as inputs based on catalytic hairpin assembly and CRISPR-Cas12a. <i>Talanta</i> , 2023, 255, 124210.	2.9	3

#	ARTICLE	IF	CITATIONS
220	A novel covalent organic framework with abundant N-O-O and N-N-O sites for detection and removal of Zn ²⁺ , Cd ²⁺ , Pb ²⁺ , Cu ²⁺ , and Hg ²⁺ . Ionics, 0, , .	1.2	2
221	Novel Metal-Organic Framework Materials In-Focus Detection and Adsorption Cues for Environmental Pollutants. Reviews of Environmental Contamination and Toxicology, 2022, 260, .	0.7	1
222	Core-shell architected NH ₂ -UiO-66@ZIF-8/multi-walled carbon nanotubes nanocomposite-based sensitive electrochemical sensor towards simultaneous determination of Pb ²⁺ and Cu ²⁺ . Mikrochimica Acta, 2023, 190, .	2.5	7
223	Metal-Organic Framework-Based Biosensing Platforms for the Sensitive Determination of Trace Elements and Heavy Metals: A Comprehensive Review. Industrial & Engineering Chemistry Research, 2023, 62, 4611-4627.	1.8	15
224	Hybrid hierarchically porous carbon micron tubes for trace cadmium and lead ions electrochemical detection. Applied Surface Science, 2023, 615, 156426.	3.1	5
225	Advances in Biosensing of Chemical Food Contaminants Based on the MOFs-Graphene Nanohybrids. Critical Reviews in Analytical Chemistry, 0, , 1-17.	1.8	4
226	Progress in Research and Application of Graphene Aerogel—A Bibliometric Analysis. Materials, 2023, 16, 272.	1.3	0
227	A Sensitive and Selective Electrochemical Aptasensor Based On Gold Nanoflower/Polyethyleneimine (Pei)-Functionalized Metal Organic Framework Nanocomposites for Label-Free Determination of Streptomycin in Milk Samples. Food Analytical Methods, 0, , .	1.3	1
228	Chemical sensing of heavy metals in water. , 2023, , 565-591.		0
229	Enhanced As(III) detection under near-neutral conditions: Synergistic effect of boosted adsorption by oxygen vacancies and valence cycle-over activated Au NPs loaded on FeCoOx nanosheets. Sensors and Actuators B: Chemical, 2023, 382, 133489.	4.0	8
230	Effect of Pollutant Species on the Performance of Chelating Membranes for Wastewater Treatment. Chemical Engineering and Technology, 0, , .	0.9	0
231	A portable microfluidic electrochemical sensing platform for rapid detection of hazardous metal Pb ²⁺ based on thermocapillary convection using 3D Ag-rGO-f-Ni(OH) ₂ /NF as a signal amplifying element. Journal of Hazardous Materials, 2023, 448, 130923.	6.5	12
232	A CNN-Based Method for Heavy-Metal Ion Detection. Applied Sciences (Switzerland), 2023, 13, 4520.	1.3	1
233	A facile electrochemical sensor based on amino-functionalized magnetic nanoparticles for simultaneous detection of lead and mercuric ions. Journal of Food Composition and Analysis, 2023, 119, 105232.	1.9	3
234	The innovative and accurate detection of heavy metals in foods: A critical review on electrochemical sensors. Food Control, 2023, 150, 109743.	2.8	12
235	Electrospun composite nanofibers modified with silver nanoparticles for extraction of trace heavy metals from water and rice samples: An highly efficient and reproducible sorbent. Food Chemistry, 2023, 420, 136122.	4.2	5
236	Flexible carbon fiber cloth supports decorated with cerium metal-organic frameworks and multi-walled carbon nanotubes for simultaneous on-site detection of Cd ²⁺ and Pb ²⁺ in food and water samples. Food Chemistry, 2023, 418, 135869.	4.2	8
237	Solvent templated luminescent metal-organic frameworks for specific detection of vitamin C in aqueous media. Journal of Molecular Structure, 2023, 1284, 135365.	1.8	8

#	ARTICLE	IF	CITATIONS
238	MOFs-based Fe@YAU-101/GCE electrochemical sensor platform for highly selective detecting trace multiplex heavy metal ions. <i>Talanta</i> , 2023, 259, 124491.	2.9	10
239	MOFs composite materials for Pb ²⁺ ions detection in water: Recent trends & advances. <i>Microchemical Journal</i> , 2023, 190, 108585.	2.3	6
240	Cyclodextrin-metal-organic frameworks in molecular delivery, detection, separation, and capture: An updated critical review. <i>Carbohydrate Polymers</i> , 2023, 306, 120598.	5.1	13
241	Development of a novel sensor based on Bi ₂ O ₃ and carbonized UiO-66-NH ₂ nanocomposite for efficient detection of Pb(II) ion in water environment. <i>Applied Surface Science</i> , 2023, 616, 156510.	3.1	6
242	Development of soft polymer blend for copper ion detection by electrochemical route. <i>Journal of Applied Polymer Science</i> , 2023, 140, .	1.3	2
243	Colorimetric method transforms into highly sensitive homogeneous voltammetric sensing strategy for mercury ion based on mercury-stimulated Ti ₃ C ₂ T _x MXene nanoribbons@gold nanozyme activity. <i>Analytica Chimica Acta</i> , 2023, 1250, 340975.	2.6	10
244	Sensor design strategy for environmental and biological monitoring. <i>EcoMat</i> , 2023, 5, .	6.8	9
245	Integration of nanomaterial sensing layers on printable organic field effect transistors for highly sensitive and stable biochemical signal conversion. <i>Nanoscale</i> , 2023, 15, 5537-5559.	2.8	5
246	Nonmodified Laser-Induced Graphene Sensors for Lead-Ion Detection. <i>ACS Applied Nano Materials</i> , 2023, 6, 3599-3607.	2.4	5
247	Homogeneous voltammetric sensing strategy for lead ions based on aptamer gated methylthionine chloride@UiO-66-NH ₂ framework as smart target-stimulated responsive nanomaterial. <i>Chemical Communications</i> , 2023, 59, 3771-3774.	2.2	7
248	An Ion-Imprinted Polymer-Receptor-Based Electrochemical Sensor for the Sensitive and Selective Detection of Cadmium. <i>ChemistrySelect</i> , 2023, 8, .	0.7	2
249	Chromium-Benzenedicarboxylates Metal Organic Framework for Supersensitive and Selective Electrochemical Sensor of Toxic Cd ²⁺ , Pb ²⁺ , and Hg ²⁺ Metal Ions: Study of their Interactive Mechanism. <i>Journal of the Electrochemical Society</i> , 2023, 170, 046505.	1.3	6
250	Three-dimensional graphene/metal-organic framework composites for electrochemical energy storage and conversion. <i>Chemical Communications</i> , 2023, 59, 6475-6494.	2.2	9
251	Duplex-specific nuclease powered 3D DNA walker and quantum dots barcodes for homogeneous electrochemical detection of microRNAs. <i>Analytica Chimica Acta</i> , 2023, 1262, 341246.	2.6	3
268	Advances in Biosensors for Detection of Foodborne Microorganisms, Toxins, and Chemical Contaminants. , 2024, , 372-384.		2
274	An electroanalytical overview of metal-organic frameworks (MOFs). , 2023, , 468-503.		0
277	Removal and recovery of Hg(II) from industrial wastewater. , 2023, , 581-599.		0
285	Recent advances in the modification of electrodes for trace metal analysis: a review. <i>Analyst</i> , The, 0, , .	1.7	0

#	ARTICLE	IF	CITATIONS
290	Metal-Organic Frameworks for Sensing Applications. , 2023, , 251-300.		0
312	Characterization of superhydrophobic silica aerogel doped with Rhodamine B dye prepared in ambient pressure. AIP Conference Proceedings, 2023, , .	0.3	0
326	Gels, hydrogels, and aerogels for sensing applications. , 2024, , 231-254.		0