

Ahmed Shahat

List of Publications by Year in descending order

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61
papers

4,139
citations

94381

37
h-index

128225

60
g-index

62
all docs

62
docs citations

62
times ranked

2734
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-pore diameter nano-adsorbent and its application for rapid lead(II) detection and removal from aqueous media. <i>Chemical Engineering Journal</i> , 2015, 273, 286-295.	6.6	304
2	Investigation of ligand immobilized nano-composite adsorbent for efficient cerium(III) detection and recovery. <i>Chemical Engineering Journal</i> , 2015, 265, 210-218.	6.6	271
3	Functional ligand anchored nanomaterial based facial adsorbent for cobalt(II) detection and removal from water samples. <i>Chemical Engineering Journal</i> , 2015, 271, 155-163.	6.6	230
4	Novel hierarchical composite adsorbent for selective lead(II) ions capturing from wastewater samples. <i>Chemical Engineering Journal</i> , 2018, 332, 377-386.	6.6	201
5	Novel nano-conjugate materials for effective arsenic(V) and phosphate capturing in aqueous media. <i>Chemical Engineering Journal</i> , 2018, 331, 54-63.	6.6	185
6	Efficient adsorbents of nanoporous aluminosilicate monoliths for organic dyes from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2011, 359, 9-18.	5.0	173
7	Functionalized novel mesoporous adsorbent for selective lead(II) ions monitoring and removal from wastewater. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 854-863.	4.0	171
8	Visual nickel(II) ions treatment in petroleum samples using a mesoporous composite adsorbent. <i>Chemical Engineering Journal</i> , 2018, 334, 957-967.	6.6	170
9	Efficient toxic nitrite monitoring and removal from aqueous media with ligand based conjugate materials. <i>Journal of Molecular Liquids</i> , 2019, 285, 20-26.	2.3	165
10	Large three-dimensional mesoporous silica nanotubes as membrane filters: nanofiltration and permeation flux of proteins. <i>Journal of Materials Chemistry</i> , 2011, 21, 5593.	6.7	150
11	Simultaneous optical detection and extraction of cobalt(II) from lithium ion batteries using nanocollector monoliths. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1015-1025.	4.0	146
12	Novel solid-state sensor material for efficient cadmium(II) detection and capturing from wastewater. <i>Microchemical Journal</i> , 2021, 164, 105967.	2.3	115
13	Optical metal-organic framework sensor for selective discrimination of some toxic metal ions in water. <i>Analytica Chimica Acta</i> , 2013, 793, 90-98.	2.6	103
14	Sensitive and selective fluorometric determination and monitoring of Zn ²⁺ ions using supermicroporous Zr-MOFs chemosensors. <i>Microchemical Journal</i> , 2018, 139, 24-33.	2.3	74
15	Tailor-Made Micro-Object Optical Sensor Based on Mesoporous Pellets for Visual Monitoring and Removal of Toxic Metal Ions from Aqueous Media. <i>Small</i> , 2013, 9, 2288-2296.	5.2	71
16	Dual colorimetric and fluorometric monitoring of Bi ³⁺ ions in water using supermicroporous Zr-MOFs chemosensors. <i>Journal of Luminescence</i> , 2018, 198, 438-448.	1.5	70
17	Magnetic metal oxide-organic framework material for ultrasonic-assisted sorption of titan yellow and rose bengal from aqueous solutions. <i>Chemical Engineering Journal</i> , 2020, 392, 123635.	6.6	67
18	Investigation of novel nanomaterial for the removal of toxic substances from contaminated water. <i>RSC Advances</i> , 2019, 9, 14167-14175.	1.7	66

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19	Eco-friendly facile synthesis of glucose-derived microporous carbon spheres electrodes with enhanced performance for water capacitive deionization. <i>Desalination</i> , 2020, 477, 114278.	4.0	63
20	Multiuse Al-MOF Chemosensors for Visual Detection and Removal of Mercury Ions in Water and Skin-Whitening Cosmetics. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15097-15107.	3.2	63
21	Organic-inorganic mesoporous silica nanostrands for ultrafine filtration of spherical nanoparticles. <i>Chemical Communications</i> , 2010, 46, 3917.	2.2	62
22	Ultra-trace recognition and removal of toxic chromium (VI) ions from water using visual mesocaptor. <i>Journal of Hazardous Materials</i> , 2013, 244-245, 726-735.	6.5	58
23	Colorimetric determination of Cu(II) ions in biological samples using metal-organic framework as scaffold. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 272-280.	4.0	58
24	Optical recognition and removal of Hg(II) using a new self-chemosensor based on a modified amino-functionalized Al-MOF. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 164-172.	4.0	58
25	Building-Block-Based Mosaic Cage Silica Nanotubes for Molecular Transport and Separation. <i>Small</i> , 2011, 7, 62-65.	5.2	57
26	The synergistic effect of ultrasound power and magnetite incorporation on the sorption/desorption behavior of Cr(VI) and As(V) oxoanions in an aqueous system. <i>Journal of Colloid and Interface Science</i> , 2020, 569, 76-88.	5.0	56
27	A ligand-anchored optical composite material for efficient vanadium(V^{5+}) adsorption and detection in wastewater. <i>New Journal of Chemistry</i> , 2019, 43, 10324-10335.	1.4	55
28	Ratiometric Fluorescent Chemosensor for Zn^{2+} Ions in Environmental Samples Using Supermicroporous Organic-Inorganic Structures as Potential Platforms. <i>ChemistrySelect</i> , 2017, 2, 11083-11090.	0.7	52
29	Novel and potential chemical sensors for Au(III) ion detection and recovery in electric waste samples. <i>Microchemical Journal</i> , 2020, 158, 105312.	2.3	52
30	Optical Nanosphere Sensor Based on Shell-by-Shell Fabrication for Removal of Toxic Metals from Human Blood. <i>Advanced Healthcare Materials</i> , 2013, 2, 854-862.	3.9	50
31	Colorimetric determination of some toxic metal ions in post-mortem biological samples. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1027-1034.	4.0	50
32	Optical supermicrosensor responses for simple recognition and sensitive removal of Cu (II) ion target. <i>Talanta</i> , 2011, 83, 1341-1351.	2.9	49
33	Mesoporous aluminosilica monoliths for the adsorptive removal of small organic pollutants. <i>Journal of Hazardous Materials</i> , 2012, 201-202, 23-32.	6.5	47
34	Sensitive, selective, and rapid method for optical recognition of ultra-traces level of Hg(II), Ag(I), Au(III), and Pd(II) in electronic wastes. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 789-802.	4.0	44
35	A ligand-based conjugate solid sensor for colorimetric ultra-trace gold(III) detection in urban mining waste. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 581, 123842.	2.3	44
36	A novel and potential chemical sensor for effective monitoring of Fe(II) ion in corrosion systems of water samples. <i>Microchemical Journal</i> , 2020, 154, 104578.	2.3	44

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37	Superior adsorption and removal of aquaculture and bio-staining dye from industrial wastewater using microporous nanocubic Zn-MOFs. <i>Microporous and Mesoporous Materials</i> , 2022, 329, 111506.	2.2	42
38	Mesoporous silica nanotubes hybrid membranes for functional nanofiltration. <i>Nanotechnology</i> , 2010, 21, 375603.	1.3	36
39	Highly ordered, thermally/hydrothermally stable cubic Ia3d aluminosilica monoliths with low silica in frameworks. <i>Microporous and Mesoporous Materials</i> , 2011, 138, 51-62.	2.2	33
40	Ultrahigh performance of novel energy-efficient capacitive deionization electrodes based on 3D nanotubular composites. <i>New Journal of Chemistry</i> , 2018, 42, 3560-3567.	1.4	31
41	Nano-model membrane filters for the well-controlled separation of biomolecules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 377, 44-53.	2.3	28
42	Synthesis and characterization of NH ₂ -MIL-88(Fe) for efficient adsorption of dyes. <i>Journal of Molecular Structure</i> , 2022, 1258, 132662.	1.8	28
43	Efficient dual sensor of alternate nanomaterials for sensitive and rapid monitoring of ultra-trace phenols in sea water. <i>Journal of Molecular Liquids</i> , 2020, 297, 111798.	2.3	25
44	Preparation, structural characterization and biological evaluation of l-tyrosinate metal ion complexes. <i>Journal of Molecular Structure</i> , 2008, 881, 28-45.	1.8	23
45	Mesoporous hexagonal and cubic aluminosilica adsorbents for toxic nitroanilines from water. <i>Environmental Science and Pollution Research</i> , 2013, 20, 3863-3876.	2.7	22
46	Incorporation of metal-organic framework amino-modified MIL-101 into glycidyl methacrylate monoliths for nano LC separation. <i>Journal of Separation Science</i> , 2019, 42, 834-842.	1.3	22
47	A novel sensitive and selective chemosensor for fluorescent detection of Zn ²⁺ in cosmetics creams based on a covalent post functionalized Al-MOF. <i>New Journal of Chemistry</i> , 2021, 45, 8054-8063.	1.4	19
48	Controlled fabrication of TiO ₂ rutile nanorod/anatase nanoparticle composite photoanodes for dye-sensitized solar cell application. <i>Nanotechnology</i> , 2011, 22, 275709.	1.3	18
49	Decorated nanosphere mesoporous silica chemosensors for rapid screening and removal of toxic cadmium ions in well water samples. <i>Microchemical Journal</i> , 2020, 156, 104806.	2.3	18
50	Functionalized silica nanotubes with azo-chromophore for enhanced Pd ²⁺ and Co ²⁺ ions monitoring in E-wastes. <i>Journal of Molecular Liquids</i> , 2021, 329, 115585.	2.3	17
51	Efficient sucrose-derived mesoporous carbon sphere electrodes with enhanced hydrophilicity for water capacitive deionization at low cell voltages. <i>New Journal of Chemistry</i> , 2021, 45, 1904-1914.	1.4	13
52	Mesopores silica nanotubes-based sensors for the highly selective and rapid detection of Fe ²⁺ ions in wastewater, boiler system units and biological samples. <i>Analytica Chimica Acta</i> , 2021, 1180, 338860.	2.6	12
53	Development of a novel and potential chemical sensor for colorimetric detection of Pd(II) or Cu(II) in E-wastes. <i>Microchemical Journal</i> , 2022, 172, 106951.	2.3	12
54	Spectral and thermal studies of alloxan complexes. <i>Journal of Coordination Chemistry</i> , 2008, 61, 1935-1950.	0.8	11

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55	Sensitive Determination of SARS-COV-2 and the Anti-hepatitis C Virus Agent Velpatasvir Enabled by Novel Metal-Organic Frameworks. ACS Omega, 2021, 6, 26791-26798.	1.6	8
56	Functionalized MOF as a Sensitive Spectroscopic Probe for Hg ²⁺ , Co ²⁺ , and Al ³⁺ Ions Detection in Aqueous Media. ACS Omega, 2022, 7, 17483-17491.	1.6	8
57	Spectrophotometric and Fluorometric Methods for the Determination of Fe(III) Ions in Water and Pharmaceutical Samples. ACS Omega, 2022, 7, 1288-1298.	1.6	7
58	Experimental and statistical investigation of adsorption mechanism of toxic chromium on Al-Fe-Zn oxide nanocomposite and successful application on industrial wastewater. International Journal of Environmental Analytical Chemistry, 0, , 1-15.	1.8	6
59	Eco-friendly green synthesis of functionalized mesoporous silica nanospheres for the determination of Al(III) ions in multiple samples of different kinds of water. Arabian Journal of Chemistry, 2021, 14, 103419.	2.3	3
60	Development of a Sensitive and Selective Optical Sensor for Measuring Ultra-Trace Amounts of Fe(II) and Fe(III) Ions in Water. ChemistrySelect, 2022, 7, .	0.7	2
61	Azo-chromophore based on functionalized silica nanotubes for enhanced identification of Pd(II) ions in e-residues. Journal of Materials Research and Technology, 2022, 17, 2550-2550.	2.6	0