

Mohamed E Mahmoud

List of Publications by Year in descending order

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201
papers

6,654
citations

57758

44
h-index

102487

66
g-index

202
all docs

202
docs citations

202
times ranked

5186
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochar from woody biomass for removing metal contaminants and carbon sequestration. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 22, 103-109.	5.8	178
2	Kinetics, isotherm, and thermodynamic studies of the adsorption of reactive red 195 A dye from water by modified Switchgrass Biochar adsorbent. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 37, 156-167.	5.8	161
3	Selective pre-concentration and solid phase extraction of mercury(II) from natural water by silica gel-loaded dithizone phases. <i>Analytica Chimica Acta</i> , 2000, 415, 33-40.	5.4	160
4	Fabrication, characterization and gamma rays shielding properties of nano and micro lead oxide-dispersed-high density polyethylene composites. <i>Radiation Physics and Chemistry</i> , 2018, 145, 160-173.	2.8	156
5	Design of novel nano-sorbents based on nano-magnetic iron oxide-immobilized-triethylenetetramine for implementation in water treatment of heavy metals. <i>Chemical Engineering Journal</i> , 2013, 223, 318-327.	12.7	154
6	Selective solid phase extraction of mercury(II) by silica gel-immobilized-dithiocarbamate derivatives. <i>Analytica Chimica Acta</i> , 1999, 398, 297-304.	5.4	129
7	Amino-decorated magnetic metal-organic framework as a potential novel platform for selective removal of chromium (VI), cadmium (II) and lead (II). <i>Journal of Hazardous Materials</i> , 2020, 381, 120979.	12.4	125
8	Synthesis, characterization and structure effects on selectivity properties of silica gel covalently bonded diethylenetriamine mono- and bis-salicylaldehyde and naphthaldehyde Schiff's bases towards some heavy metal ions. <i>Talanta</i> , 2001, 54, 243-253.	5.5	115
9	Silica-immobilized formylsalicylic acid as a selective phase for the extraction of iron(III). <i>Talanta</i> , 1997, 44, 15-22.	5.5	104
10	Recycled high-density polyethylene plastics added with lead oxide nanoparticles as sustainable radiation shielding materials. <i>Journal of Cleaner Production</i> , 2018, 176, 276-287.	9.3	103
11	Supported hydrophobic ionic liquid on nano-silica for adsorption of lead. <i>Chemical Engineering Journal</i> , 2011, 166, 157-167.	12.7	96
12	Enhanced adsorption of Levofloxacin and Ceftriaxone antibiotics from water by assembled composite of nanotitanium oxide/chitosan/nano-bentonite. <i>Materials Science and Engineering C</i> , 2020, 108, 110199.	7.3	94
13	Removal and preconcentration of lead (II) and other heavy metals from water by alumina adsorbents developed by surface-adsorbed-dithizone. <i>Desalination</i> , 2010, 251, 123-130.	8.2	92
14	Enhanced decolorization of reactive black 5 dye by active carbon sorbent-immobilized-cationic surfactant (AC-CS). <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 994-1002.	5.8	88
15	Nanocomposites of nanosilica-immobilized-nanopolyaniline and crosslinked nanopolyaniline for removal of heavy metals. <i>Chemical Engineering Journal</i> , 2016, 304, 679-691.	12.7	86
16	Removal and preconcentration of lead (II), copper (II), chromium (III) and iron (III) from wastewaters by surface developed alumina adsorbents with immobilized 1-nitroso-2-naphthol. <i>Journal of Hazardous Materials</i> , 2010, 173, 349-357.	12.4	78
17	Investigation of mechanical and radiation shielding characteristics of novel glass systems with the composition $x\text{NiO}-20\text{ZnO}-60\text{B}_2\text{O}_3-(20-x)\text{CdO}$ based on nanometal oxides. <i>Journal of Non-Crystalline Solids</i> , 2020, 528, 119754.	3.1	76
18	Nanoscale Pisum sativum pods biochar encapsulated starch hydrogel: A novel nanosorbent for efficient chromium (VI) ions and naproxen drug removal. <i>Bioresource Technology</i> , 2020, 308, 123263.	9.6	76

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19	Removal of uranium (VI) from water by the action of microwave-rapid green synthesized carbon quantum dots from starch-water system and supported onto polymeric matrix. <i>Journal of Hazardous Materials</i> , 2020, 397, 122770.	12.4	73
20	Adsorption of negatively charged food tartrazine and sunset yellow dyes onto positively charged triethylenetetramine biochar: Optimization, kinetics and thermodynamic study. <i>Journal of Molecular Liquids</i> , 2020, 318, 114297.	4.9	68
21	High performance SiO ₂ -nanoparticles-immobilized-Penicillium funiculosum for bioaccumulation and solid phase extraction of lead. <i>Bioresource Technology</i> , 2012, 106, 125-132.	9.6	65
22	Immobilization of [Bmim+Tf ₂ N ⁻] hydrophobic ionic liquid on nano-silica-amine sorbent for implementation in solid phase extraction and removal of lead. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1252-1257.	5.8	64
23	Silica gel-immobilized Eriochrome black-T as a potential solid phase extractor for zinc (II) and magnesium (II) from calcium (II). <i>Talanta</i> , 1997, 45, 309-315.	5.5	62
24	Selective solid phase extraction and preconcentration of iron(III) based on silica gel-chemically immobilized purpurogallin. <i>Analytica Chimica Acta</i> , 2001, 450, 239-246.	5.4	62
25	A novel nanobiosorbent of functionalized graphene quantum dots from rice husk with barium hydroxide for microwave enhanced removal of lead (II) and lanthanum (III). <i>Bioresource Technology</i> , 2020, 298, 122514.	9.6	61
26	High performance nano-zirconium silicate adsorbent for efficient removal of copper (II), cadmium (II) and lead (II). <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1320-1328.	6.7	60
27	Conversion of Waste Styrofoam into Engineered Adsorbents for Efficient Removal of Cadmium, Lead and Mercury from Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 819-827.	6.7	60
28	A novel composite of nanomagnetite-immobilized-baker's yeast on the surface of activated carbon for magnetic solid phase extraction of Hg(II). <i>Fuel</i> , 2015, 139, 614-621.	6.4	57
29	Comparison of Metal Uptake Properties of Silica Gel-Bound Ion Exchangers and Some Amine Derivatives. <i>Analytical Letters</i> , 1996, 29, 1791-1804.	1.8	56
30	Novel derived pectin hydrogel from mandarin peel based metal-organic frameworks composite for enhanced Cr(VI) and Pb(II) ions removal. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 920-931.	7.5	56
31	Speciation, selective extraction and preconcentration of chromium ions via alumina-functionalized-isatin-thiosemicarbazone. <i>Journal of Hazardous Materials</i> , 2008, 158, 541-548.	12.4	55
32	Adsorption Isotherm Models, Kinetics Study, and Thermodynamic Parameters of Ni(II) and Zn(II) Removal from Water Using the LbL Technique. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 839-850.	1.9	55
33	Synthesis and implementation of nano-chitosan and its acetophenone derivative for enhanced removal of metals. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 672-680.	7.5	54
34	Microwave-enforced sorption of heavy metals from aqueous solutions on the surface of magnetic iron oxide-functionalized-3-aminopropyltriethoxysilane. <i>Chemical Engineering Journal</i> , 2016, 293, 200-206.	12.7	54
35	Aspects of surface modification, structure characterization, thermal stability and metal selectivity properties of silica gel phases-immobilized-amine derivatives. <i>Analytica Chimica Acta</i> , 2004, 525, 123-132.	5.4	53
36	Performance evaluation of hybrid inorganic/organic adsorbents in removal and preconcentration of heavy metals from drinking and industrial waste water. <i>Desalination</i> , 2010, 253, 9-15.	8.2	52

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37	Self-decoration of N-doped graphene oxide 3-D hydrogel onto magnetic shrimp shell biochar for enhanced removal of hexavalent chromium. <i>Journal of Hazardous Materials</i> , 2021, 408, 124951.	12.4	52
38	Surface loaded 1-methyl-3-ethylimidazolium bis(trifluoromethylsulfonyl)imide [EMIM+Tf ₂ N ⁻] hydrophobic ionic liquid on nano-silica sorbents for removal of lead from water samples. <i>Desalination</i> , 2011, 266, 119-127.	8.2	51
39	Starch functionalization of iron oxide by-product from steel industry as a sustainable low cost nanocomposite for removal of divalent toxic metal ions from water. <i>International Journal of Biological Macromolecules</i> , 2019, 137, 455-468.	7.5	50
40	Microbiological contamination of mobile phones of clinicians in intensive care units and neonatal care units in public hospitals in Kuwait. <i>BMC Infectious Diseases</i> , 2015, 15, 434.	2.9	49
41	Hybrid inorganic/organic alumina adsorbents-functionalized-purpurogallin for removal and preconcentration of Cr(III), Fe(III), Cu(II), Cd(II) and Pb(II) from underground water. <i>Journal of Hazardous Materials</i> , 2010, 176, 906-912.	12.4	48
42	Surface modifications of nanochitosan coated magnetic nanoparticles and their applications in Pb(II), Cu(II) and Cd(II) removal. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104316.	6.7	48
43	Dowex anion exchanger-loaded-baker's yeast as bi-functionalized biosorbents for selective extraction of anionic and cationic mercury(II) species. <i>Journal of Hazardous Materials</i> , 2009, 164, 1036-1044.	12.4	46
44	Imprinting of Nano-SiO ₂ -Crosslinked Chitosan-Nano-TiO ₂ -Polymeric Nanocomposite for Selective and Instantaneous Microwave-Assisted Sorption of Hg(II) and Cu(II). <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4564-4573.	6.7	45
45	Fabrication and characterization of phosphotungstic acid - Copper oxide nanoparticles - Plastic waste nanocomposites for enhanced radiation-shielding. <i>Journal of Alloys and Compounds</i> , 2019, 803, 768-777.	5.5	44
46	Encapsulation of starch hydrogel and doping nanomagnetite onto metal-organic frameworks for efficient removal of fluvastatin antibiotic from water. <i>Carbohydrate Polymers</i> , 2020, 245, 116438.	10.2	44
47	Developed magnetic Fe ₃ O ₄ -MoO ₃ -AC nanocomposite for effective removal of ciprofloxacin from water. <i>Materials Chemistry and Physics</i> , 2021, 257, 123454.	4.0	44
48	Fabricated and functionalized magnetite/phenylenediamine/cellulose acetate nanocomposite for adsorptive removal of methylene blue. <i>International Journal of Biological Macromolecules</i> , 2019, 128, 196-203.	7.5	43
49	Microwave-assisted adsorption of Cr(VI), Cd(II) and Pb(II) in presence of magnetic graphene oxide-covalently functionalized-tryptophan nanocomposite. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153855.	5.5	43
50	Enhanced biosorptive removal of cadmium from aqueous solutions by silicon dioxide nano-powder, heat inactivated and immobilized <i>Aspergillus ustus</i> . <i>Desalination</i> , 2011, 279, 291-297.	8.2	42
51	Engineered nano-zirconium oxide-crosslinked-nanolayer of carboxymethyl cellulose for speciation and adsorptive removal of Cr(III) and Cr(VI). <i>Powder Technology</i> , 2017, 321, 444-453.	4.2	42
52	Effective removal of crystal violet and methylene blue dyes from water by surface functionalized zirconium silicate nanocomposite. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103009.	6.7	42
53	Design and testing of high-density polyethylene nanocomposites filled with lead oxide micro- and nano-particles: Mechanical, thermal, and morphological properties. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47812.	2.6	42
54	A sustainable nanocomposite for removal of heavy metals from water based on crosslinked sodium alginate with iron oxide waste material from steel industry. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104015.	6.7	42

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55	Role of novel ternary nanocomposites polypropylene in nuclear radiation attenuation properties: In-depth simulation study. <i>Radiation Physics and Chemistry</i> , 2021, 188, 109667.	2.8	42
56	Investigation of physical, mechanical and gamma-ray shielding properties using ceramic tiles incorporated with powdered lead oxide. <i>Ceramics International</i> , 2020, 46, 15686-15694.	4.8	41
57	Microwave functionalization of titanium oxide nanoparticles with chitosan nanolayer for instantaneous microwave sorption of Cu(II) and Cd(II) from water. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 393-399.	7.5	40
58	Assembly and implementation of an eco-friendly marine nanosediment for adsorptive removal of heptavalent manganese: Adsorption isotherm, thermodynamic and kinetics studies. <i>Powder Technology</i> , 2020, 359, 247-260.	4.2	40
59	Reactivity of Thioglycolic Acid Physically and Chemically Bound to Silica Gel as New Selective Solid Phase Extractors for Removal of Heavy Metal Ions From Natural Water Samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2002, 82, 403-413.	3.3	38
60	Solidâ€“solid crosslinking of carboxymethyl cellulose nanolayer on titanium oxide nanoparticles as a novel biocomposite for efficient removal of toxic heavy metals from water. <i>International Journal of Biological Macromolecules</i> , 2017, 105, 1269-1278.	7.5	38
61	Selective Solid Phase Extraction and Pre-Concentration of Heavy Metals from Seawater by Physically and Chemically Immobilized 4-Amino-3-Hydroxy-2-(2-Chlorobenzene)-Azo-1-Naphthalene Sulfonic Acid Silica Gel. <i>Mikrochimica Acta</i> , 2003, 143, 65-70.	5.0	37
62	Effective removal of levofloxacin drug and Cr(VI) from water by a composed nanobiosorbent of vanadium pentoxide@chitosan@MOFs. <i>International Journal of Biological Macromolecules</i> , 2021, 188, 879-891.	7.5	37
63	Biosorption and removal of Cr(VI)â€“Cr(III) from water by eco-friendly gelatin biosorbent. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 715-722.	6.7	36
64	Recent advances in adsorptive removal and catalytic reduction of hexavalent chromium by metalâ€“organic frameworks composites. <i>Journal of Molecular Liquids</i> , 2022, 347, 118274.	4.9	36
65	STUDY OF THE SELECTIVITY CHARACTERISTICS INCORPORATED INTO PHYSICALLY ADSORBED ALUMINA PHASES. II. MERCAPTONICOTINIC ACID AND POTENTIAL APPLICATIONS AS SELECTIVE STATIONARY PHASES FOR SEPARATION, EXTRACTION, AND PRECONCENTRATION OF LEAD(II) AND COPPER(II). <i>Journal of Liquid Chromatography and Related Technologies</i> , 2002, 25, 1187-1199.	1.0	35
66	Metal Sorption, Solid Phase Extraction and Preconcentration Properties of Two Silica Gel Phases Chemically Modified with 2-Hydroxy-1-Naphthaldehyde. <i>Mikrochimica Acta</i> , 2003, 143, 25-31.	5.0	35
67	Improved adsorptive removal of cadmium from water by hybrid chemically and biologically carbonaceous sorbents. <i>Chemical Engineering Journal</i> , 2011, 175, 84-94.	12.7	35
68	High performance microwave-enforced solid phase extraction of heavy metals from aqueous solutions using magnetic iron oxide nanoparticles-protected-nanosilica. <i>Separation and Purification Technology</i> , 2016, 163, 169-172.	7.9	35
69	Multifunctionalized graphene oxide@nanopolyaniline@zirconium silicate nanocomposite for rapid microwable removal of dyes. <i>Journal of Nanostructure in Chemistry</i> , 2021, 11, 645-662.	9.1	35
70	Engineered nano-magnetic iron oxide-urea-activated carbon nanolayer sorbent for potential removal of uranium (VI) from aqueous solution. <i>Journal of Nuclear Materials</i> , 2017, 487, 13-22.	2.7	34
71	Adsorptive removal of radioactive isotopes of cobalt and zinc from water and radioactive wastewater using TiO ₂ /Ag ₂ O nanoadsorbents. <i>Progress in Nuclear Energy</i> , 2018, 106, 51-63.	2.9	34
72	Surface layer-by-layer chemical deposition reaction for thin film formation of nano-sized metal 8-hydroxyquinolate complexes. <i>Polyhedron</i> , 2009, 28, 181-187.	2.2	33

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73	Engineered staphylococcus aureus via immobilization on magnetic Fe ₃ O ₄ -phthalate nanoparticles for biosorption of divalent ions from aqueous solutions. Journal of Environmental Chemical Engineering, 2016, 4, 3810-3824.	6.7	33
74	Sustained-release Griffithsin nanoparticle-fiber composites against HIV-1 and HSV-2 infections. Journal of Controlled Release, 2020, 321, 84-99.	9.9	33
75	Nano zirconium silicate coated manganese dioxide nanoparticles: Microwave-assisted synthesis, process optimization, adsorption isotherm, kinetic study and thermodynamic parameters for removal of 4-nitrophenol. Journal of Molecular Liquids, 2017, 240, 280-290.	4.9	32
76	Heavy metal ions extraction from aqueous media using nanoporous silica. Chemical Engineering Journal, 2011, 175, 117-123.	12.7	31
77	Immobilization of Fusarium verticillioides fungus on nano-silica (NSi@Fus): A novel and efficient biosorbent for water treatment and solid phase extraction of Mg(II) and Ca(II). Bioresource Technology, 2013, 134, 324-330.	9.6	31
78	Water treatment of hexavalent chromium by gelatin-impregnated-yeast (Gel@Yst) biosorbent. Journal of Environmental Management, 2015, 147, 264-270.	7.8	31
79	Water and soil decontamination of toxic heavy metals using aminosilica-functionalized-ionic liquid nanocomposite. Journal of Molecular Liquids, 2018, 266, 834-845.	4.9	31
80	Synthesis, Characterization and Selective Metal Binding Properties of Physically Adsorbed 2-Thiouracil on the Surface of Porous Silica and Alumina. Mikrochimica Acta, 2004, 147, 111.	5.0	30
81	Synthesis and surface protection of nano zerovalent iron (NZVI) with 3-aminopropyltrimethoxysilane for water remediation of cobalt and zinc and their radioactive isotopes. RSC Advances, 2016, 6, 66242-66251.	3.6	30
82	Enhanced removal of lead and cadmium from water by Fe ₃ O ₄ -cross linked-O-phenylenediamine nano-composite. Separation Science and Technology, 2016, 51, 237-247.	2.5	30
83	Assessment of heat-inactivated marine Aspergillus flavus as a novel biosorbent for removal of Cd(II), Hg(II), and Pb(II) from water. Environmental Science and Pollution Research, 2017, 24, 18218-18228.	5.3	30
84	A comparative Study Between Fluka and Microshield Modeling Calculations to study the Radiation Shielding of Nanoparticles and Plastic Waste composites. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1083-1090.	1.2	30
85	Decorated Mn-ferrite nanoparticle@Zn@Al layered double hydroxide@Cellulose@ activated biochar nanocomposite for efficient remediation of methylene blue and mercury (II). Bioresource Technology, 2021, 342, 126029.	9.6	29
86	Synthesis, characterization, and sorption properties of silica gel-immobilized pyrimidine derivative. Journal of Colloid and Interface Science, 2006, 300, 94-99.	9.4	28
87	Removal of radioactive cobalt/zinc and some heavy metals from water using diethylenetriamine/2-pyridinecarboxaldehyde supported on NZVI. Microchemical Journal, 2019, 145, 1102-1111.	4.5	28
88	Sustainable super fast adsorptive removal of Congo red dye from water by a novel technique based on microwave-enforced sorption process. Journal of Industrial and Engineering Chemistry, 2018, 57, 28-36.	5.8	27
89	Adsorption behavior of silver quantum dots by a novel super magnetic CoFe ₂ O ₄ -biochar-polymeric nanocomposite. Journal of Colloid and Interface Science, 2022, 606, 1597-1608.	9.4	27
90	Doping starch-gelatin mixed hydrogels with magnetic spinel ferrite@biochar@molybdenum oxide as a highly efficient nanocomposite for removal of lead (II) ions. Journal of Environmental Chemical Engineering, 2021, 9, 106682.	6.7	27

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91	Metal Uptake Properties of Polystyrene Resin Immobilized Polyamine and Formylsalicylic Acid Derivatives as Chelation Ion Exchangers. <i>Analytical Sciences</i> , 1997, 13, 765-769.	1.6	26
92	Selective extraction of toxic heavy metal oxyanions and cations by a novel silica gel phase functionalized by vitamin B4. <i>Chemical Engineering Journal</i> , 2011, 172, 177-183.	12.7	26
93	Facile microwave-assisted fabrication of nano-zirconium silicate-functionalized-3-aminopropyltrimethoxysilane as a novel adsorbent for superior removal of divalent ions. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 32, 365-372.	5.8	26
94	Development of microwave-assisted functionalized nanosilicas for instantaneous removal of heavy metals. <i>Powder Technology</i> , 2018, 326, 454-466.	4.2	25
95	Promoted removal of metformin hydrochloride anti-diabetic drug from water by fabricated and modified nanobiochar from artichoke leaves. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 18, 100336.	3.3	25
96	Green synthesis and surface decoration of silver nanoparticles onto γ -FeOOH-Polymeric nanocomposite as efficient nanocatalyst for dyes degradation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104697.	6.7	25
97	Effects of Al ₂ O ₃ and BaO nano-additives on mechanical characteristics of high-density polyethylene. <i>Materials Chemistry and Physics</i> , 2021, 262, 124251.	4.0	25
98	Manganese dioxide nanoparticles decorated with chitosan for effective removal of lead and lanthanum ions from water by microwave sorption technique. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 267, 115091.	3.5	25
99	Novel nano-Fe ₃ O ₄ -encapsulated-dioctylphthalate and linked-triethylenetetramine sorbents for magnetic solid phase removal of heavy metals. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 25, 207-215.	5.8	24
100	Green solid synthesis of polyaniline-silver oxide nanocomposite for the adsorptive removal of ionic divalent species of Zn/Co and their radioactive isotopes ⁶⁵ Zn/ ⁶⁰ Co. <i>Environmental Science and Pollution Research</i> , 2018, 25, 22120-22135.	5.3	22
101	Catalytic reduction of nitrophenols by a novel assembled nanocatalyst based on zerovalent copper-nanopolyaniline-nanozirconium silicate. <i>Journal of Molecular Liquids</i> , 2020, 299, 112192.	4.9	22
102	Synergistic effect of nano- α -bentonite and nanocadmium oxide doping concentrations on assembly, characterization, and enhanced γ -rays shielding properties of polypropylene ternary nanocomposites. <i>International Journal of Energy Research</i> , 2021, 45, 8942-8959.	4.5	22
103	Development of a Method for Chromium Speciation by Selective Solid Phase Extraction and Preconcentration on Alumina-Functionalized Thiosemicarbazide. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2008, 31, 2475-2492.	1.0	21
104	Fabrication of magnetite-functionalized-graphene oxide and hexadecyltrimethyl ammonium bromide nanocomposite for efficient nanosorption of sunset yellow. <i>Materials Science and Engineering C</i> , 2018, 92, 287-296.	7.3	21
105	Solvent free microwave synthesis of nano polyaniline-zirconium silicate nanocomposite for removal of nitro derivatives. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 371-384.	5.8	21
106	Efficient and ultrafast removal of Cd(II) and Sm(III) from water by leaves of <i>Cynara scolymus</i> derived biochar. <i>Materials Research Bulletin</i> , 2021, 141, 111334.	5.2	21
107	Selective Preconcentration of Uranyl Ion by Silica Gel Phases Modified with Chelating Compounds as Inorganic Polymeric Ion Exchangers. <i>Analytical Sciences</i> , 2008, 24, 381-387.	1.6	20
108	Static removal of cadmium from aqueous and nonaqueous matrices by application of layer-by-layer chemical deposition technique. <i>Chemical Engineering Journal</i> , 2011, 166, 916-922.	12.7	20

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109	Adjusted pH for the Selective Separation of Cadmium from Lead by Nano-Active Silica-Functionalized-[Bmim ⁺ Tf ₂ N ⁻] Ionic Liquid. Separation Science and Technology, 2013, 48, 931-940.	2.5	20
110	Magnetic accumulation and extraction of Cd(II), Hg(II) and Pb(II) by a novel nano-Fe ₃ O ₄ -coated-dioctylphthalate-immobilized-hydroxylamine. Journal of Environmental Chemical Engineering, 2015, 3, 843-851.	6.7	20
111	A novel nanocomposite of Liquidambar styraciflua fruit biochar-crosslinked-nanosilica for uranyl removal from water. Bioresource Technology, 2019, 278, 124-129.	9.6	20
112	Novel NTiO ₂ -chitosan@NZrO ₂ -chitosan nanocomposite for effective adsorptive uptake of trivalent gadolinium and samarium ions from water. Powder Technology, 2021, 378, 246-254.	4.2	20
113	Speciation and Selective Biosorption of Cr(III) and Cr(VI) Using Nanosilica Immobilized-Fungi Biosorbents. Journal of Environmental Engineering, ASCE, 2015, 141, .	1.4	19
114	Improved removal and decolorization of C.I. anionic reactive yellow 145 A dye from water in a wide pH range via active carbon adsorbent-loaded-cationic surfactant. Desalination and Water Treatment, 2015, 55, 227-240.	1.0	19
115	Promoted adsorptive removal of chromium(^{vi}) ions from water by a green-synthesized hybrid magnetic nanocomposite (NFe ₃ O ₄ Starch-Glu-NFe ₃ O ₄ ED). RSC Advances, 2021, 11, 14829-14843.	3.6	19
116	Synergistic effects on gamma-ray shielding by novel light-weight nanocomposite materials of bentonite containing nano Bi ₂ O ₃ additive. Ceramics International, 2022, 48, 7291-7303.	4.8	19
117	Nano-sized Co(II)-8-hydroxyquinolate complex thin film via surface layer-by-layer chemical deposition method: Optimized factors and optical properties. Polyhedron, 2009, 28, 3407-3414.	2.2	18
118	Fast microwave-assisted sorption of heavy metals on the surface of nanosilica-functionalized-glycine and reduced glutathione. Bioresource Technology, 2018, 264, 228-237.	9.6	18
119	In situ microwave-assisted oxidation of graphite into partially oxidized graphite nanoparticles for microwave-sorptive removal of anionic and cationic dyes. Journal of Molecular Liquids, 2019, 288, 110979.	4.9	18
120	Green nanosilica@folic Acid (VB9) nanocomposite for engineered adsorptive water remediation of bivalent lead, cadmium and copper. Powder Technology, 2019, 344, 719-729.	4.2	18
121	Rapid and efficient removal of lead from water by $\hat{1}\pm$ -FeOOH/Cellulose/TiO ₂ nanocomposite. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 262, 114689.	3.5	18
122	New magnetic cellulose nanobiocomposites for Cu(II), Cd(II) and Pb(II) ions removal: kinetics, thermodynamics and analytical evaluation. Nanotechnology for Environmental Engineering, 2021, 6, 1.	3.3	18
123	Ceramic tiles doped with lead oxide nanoparticles: Their fabrication, physical, mechanical characteristics and $\hat{1}^3$ -ray shielding performance. Radiation Physics and Chemistry, 2021, 189, 109780.	2.8	18
124	Chromium speciation, selective extraction and preconcentration by alumina-functionalised 2-pyridenecarboxyladehyde thiosemicarbazone. International Journal of Environmental Analytical Chemistry, 2008, 88, 1017-1031.	3.3	17
125	Spectral $\hat{1}$ “optical $\hat{1}$ “electrical $\hat{1}$ “thermal properties of deposited thin films of nano-sized calcium(II)-8-hydroxy-5,7-dinitroquinolate complex. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 82, 467-474.	3.9	17
126	Design, characterization and optical properties of assembled nanoscale thin films of copper (II) complex with 5-azo-Phenol-8-Hydroxyquinoline. Optical Materials, 2019, 95, 109215.	3.6	17

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127	A novel multifunctional sandwiched activated carbon between manganese and tin oxides nanoparticles for removal of divalent metal ions. Powder Technology, 2019, 351, 169-177.	4.2	17
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