

Mu Naushad

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462
papers

21,317
citations

77
h-index

126
g-index

476
ext. papers

26,120
ext. citations

6.3
avg, IF

7.88
L-index

#	Paper	IF	Citations
462	Efficient techniques for the removal of toxic heavy metals from aquatic environment: A review. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 2782-2799	6.8	651
461	Hexavalent chromium removal from aqueous medium by activated carbon prepared from peanut shell: Adsorption kinetics, equilibrium and thermodynamic studies. <i>Chemical Engineering Journal</i> , 2012 , 184, 238-247	14.7	488
460	Activated lignin-chitosan extruded blends for efficient adsorption of methylene blue. <i>Chemical Engineering Journal</i> , 2017 , 307, 264-272	14.7	460
459	Surfactant assisted nano-composite cation exchanger: Development, characterization and applications for the removal of toxic Pb ²⁺ from aqueous medium. <i>Chemical Engineering Journal</i> , 2014 , 235, 100-108	14.7	328
458	Novel Metal-Organic Framework (MOF) Based Composite Material for the Sequestration of U(VI) and Th(IV) Metal Ions from Aqueous Environment. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36026-36037 ⁰⁴	2.5	3704
457	Nickel ferrite bearing nitrogen-doped mesoporous carbon as efficient adsorbent for the removal of highly toxic metal ion from aqueous medium. <i>Chemical Engineering Journal</i> , 2017 , 330, 1351-1360	14.7	293
456	Novel development of nanoparticles to bimetallic nanoparticles and their composites: A review. <i>Journal of King Saud University - Science</i> , 2019 , 31, 257-269	3.6	275
455	Synthesis and characterization of a new starch/SnO ₂ nanocomposite for efficient adsorption of toxic Hg ²⁺ metal ion. <i>Chemical Engineering Journal</i> , 2016 , 300, 306-316	14.7	274
454	Facile mercury detection and removal from aqueous media involving ligand impregnated conjugate nanomaterials. <i>Chemical Engineering Journal</i> , 2016 , 290, 243-251	14.7	258
453	Effect of ionic liquid on activity, stability, and structure of enzymes: a review. <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 555-60	7.9	244
452	Phytoremediation of heavy metals: mechanisms, methods and enhancements. <i>Environmental Chemistry Letters</i> , 2018 , 16, 1339-1359	13.3	243
451	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	14.7	239
450	Quaternary magnetic BiOCl/g-C ₃ N ₄ /Cu ₂ O/Fe ₃ O ₄ nano-junction for visible light and solar powered degradation of sulfamethoxazole from aqueous environment. <i>Chemical Engineering Journal</i> , 2018 , 334, 462-478	14.7	238
449	Photodegradation of toxic dye using Gum Arabic-crosslinked-poly(acrylamide)/Ni(OH) ₂ /FeOOH nanocomposites hydrogel. <i>Journal of Cleaner Production</i> , 2019 , 241, 118263	10.3	223
448	Desorption of Methylene blue dye from brown macroalga: Effects of operating parameters, isotherm study and kinetic modeling. <i>Journal of Cleaner Production</i> , 2017 , 152, 443-453	10.3	220
447	Adsorption kinetics, isotherm and reusability studies for the removal of cationic dye from aqueous medium using arginine modified activated carbon. <i>Journal of Molecular Liquids</i> , 2019 , 293, 111442	6	214
446	Adsorption kinetics, isotherms, and thermodynamic studies for the adsorption of Pb ²⁺ and Hg ²⁺ metal ions from aqueous medium using Ti(IV) iodovanadate cation exchanger. <i>Ionics</i> , 2015 , 21, 2237-2243 ⁷	2.7	209

445	Investigation of ligand immobilized nano-composite adsorbent for efficient cerium(III) detection and recovery. <i>Chemical Engineering Journal</i> , 2015 , 265, 210-218	14.7	207
444	Schiff based ligand containing nano-composite adsorbent for optical copper(II) ions removal from aqueous solutions. <i>Chemical Engineering Journal</i> , 2015 , 279, 639-647	14.7	203
443	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	14.7	201
442	Efficient removal of toxic metal ions from wastewater using a recyclable nanocomposite: A study of adsorption parameters and interaction mechanism. <i>Journal of Cleaner Production</i> , 2017 , 156, 426-436	10.3	187
441	Adsorptive performance of MOF nanocomposite for methylene blue and malachite green dyes: Kinetics, isotherm and mechanism. <i>Journal of Environmental Management</i> , 2018 , 223, 29-36	7.9	186
440	Fabrication and characterization of chitosan-crosslinked-poly(alginic acid) nanohydrogel for adsorptive removal of Cr(VI) metal ion from aqueous medium. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 484-493	7.9	184
439	Biochar-templated g-C ₃ N ₄ /Bi ₂ O ₂ CO ₃ /CoFe ₂ O ₄ nano-assembly for visible and solar assisted photo-degradation of paraquat, nitrophenol reduction and CO ₂ conversion. <i>Chemical Engineering Journal</i> , 2018 , 339, 393-410	14.7	180
438	Fabrication, characterization and antimicrobial activity of polyaniline Th(IV) tungstomolybdophosphate nanocomposite material: Efficient removal of toxic metal ions from water. <i>Chemical Engineering Journal</i> , 2014 , 251, 413-421	14.7	178
437	Sustainable nano-hybrids of magnetic biochar supported g-C ₃ N ₄ /FeVO ₄ for solar powered degradation of noxious pollutants- Synergism of adsorption, photocatalysis & photo-ozonation. <i>Journal of Cleaner Production</i> , 2017 , 165, 431-451	10.3	176
436	Electrochemical synthesized copper oxide nanoparticles for enhanced photocatalytic and antimicrobial activity. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 31, 173-184	6.3	175
435	Ion-exchange kinetic studies for Cd(II), Co(II), Cu(II), and Pb(II) metal ions over a composite cation exchanger. <i>Desalination and Water Treatment</i> , 2015 , 54, 2883-2890		170
434	Adsorption kinetics, isotherms, and thermodynamic studies for Hg ²⁺ adsorption from aqueous medium using alizarin red-S-loaded amberlite IRA-400 resin. <i>Desalination and Water Treatment</i> , 2016 , 57, 18551-18559		168
433	Adsorptive Removal of Toxic Dye Using Fe ₃ O ₄ /SC Nanocomposite: Equilibrium, Kinetic, and Thermodynamic Studies. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 3806-3813	2.8	161
432	Guar gum and its composites as potential materials for diverse applications: A review. <i>Carbohydrate Polymers</i> , 2018 , 199, 534-545	10.3	160
431	Highly efficient adsorption of strontium ions by carbonated mesoporous TiO ₂ . <i>Journal of Molecular Liquids</i> , 2019 , 285, 742-753	6	153
430	Efficient removal of coomassie brilliant blue R-250 dye using starch/poly(alginic acid-cl-acrylamide) nanohydrogel. <i>Chemical Engineering Research and Design</i> , 2017 , 109, 301-310	5.5	152
429	Adsorption of rose Bengal dye from aqueous solution by amberlite Ira-938 resin: kinetics, isotherms, and thermodynamic studies. <i>Desalination and Water Treatment</i> , 2016 , 57, 13527-13533		148
428	Photocatalytic degradation of highly toxic dyes using chitosan-g-poly(acrylamide)/ZnS in presence of solar irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 329, 61-68	4.7	147

427	Revolution from monometallic to trimetallic nanoparticle composites, various synthesis methods and their applications: A review. <i>Materials Science and Engineering C</i> , 2017 , 71, 1216-1230	8.3	142
426	Wide spectral degradation of Norfloxacin by Ag@BiPO/BiOBr/BiFeO nano-assembly: Elucidating the photocatalytic mechanism under different light sources. <i>Journal of Hazardous Materials</i> , 2019 , 364, 429-440	12.8	142
425	Separation of toxic Pb ²⁺ metal from aqueous solution using strongly acidic cation-exchange resin: analytical applications for the removal of metal ions from pharmaceutical formulation. <i>Desalination and Water Treatment</i> , 2015 , 53, 2158-2166		140
424	Fabrication of MWCNTs/ThO ₂ nanocomposite and its adsorption behavior for the removal of Pb(II) metal from aqueous medium. <i>Desalination and Water Treatment</i> , 2016 , 57, 21863-21869		139
423	Facile hetero-assembly of superparamagnetic Fe ₃ O ₄ /BiVO ₄ stacked on biochar for solar photo-degradation of methyl paraben and pesticide removal from soil. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 337, 118-131	4.7	135
422	Adsorption of Pb(II) from aqueous solution using new adsorbents prepared from agricultural waste: Adsorption isotherm and kinetic studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 2193-2199	6.3	135
421	Preparation of new class composite adsorbent for enhanced palladium(II) detection and recovery. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 790-797	8.5	132
420	Waterworks sludge-filter sand permeable reactive barrier for removal of toxic lead ions from contaminated groundwater. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101112	6.7	126
419	Nano Fe ₂ Zn ₁₀ O as a tuneable and efficient photocatalyst for solar powered degradation of bisphenol A from aqueous environment. <i>Journal of Cleaner Production</i> , 2017 , 165, 1542-1556	10.3	125
418	Fabrication and characterization of Gum arabic-cl-poly(acrylamide) nanohydrogel for effective adsorption of crystal violet dye. <i>Carbohydrate Polymers</i> , 2018 , 202, 444-453	10.3	124
417	Applications of nanocomposite hydrogels for biomedical engineering and environmental protection. <i>Environmental Chemistry Letters</i> , 2018 , 16, 113-146	13.3	123
416	Modification of Hibiscus cannabinus fiber by graft copolymerization: application for dye removal. <i>Desalination and Water Treatment</i> , 2015 , 54, 3114-3121		118
415	Photoremediation of toxic dye from aqueous environment using monometallic and bimetallic quantum dots based nanocomposites. <i>Journal of Cleaner Production</i> , 2018 , 172, 2919-2930	10.3	117
414	SPION/ β -cyclodextrin core-shell nanostructures for oil spill remediation and organic pollutant removal from waste water. <i>Chemical Engineering Journal</i> , 2015 , 280, 175-187	14.7	114
413	Adsorptive removal of noxious cadmium ions from aqueous medium using activated carbon/zirconium oxide composite: Isotherm and kinetic modelling. <i>Journal of Molecular Liquids</i> , 2020 , 310, 113025	6	113
412	Transformation pathways and fate of engineered nanoparticles (ENPs) in distinct interactive environmental compartments: A review. <i>Environment International</i> , 2020 , 138, 105646	12.9	112
411	Construction of dual Z-scheme g-C ₃ N ₄ /Bi ₄ Ti ₃ O ₁₂ /Bi ₄ O ₅ I ₂ heterojunction for visible and solar powered coupled photocatalytic antibiotic degradation and hydrogen production: Boosting via H_2O_2 and Bi ³⁺ /Bi ⁵⁺ redox mediators. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119808	21.8	109
410	Synthesis, characterization of curcumin based ecofriendly antimicrobial bio-adsorbent for the removal of phenol from aqueous medium. <i>Chemical Engineering Journal</i> , 2014 , 254, 181-189	14.7	108

409	Fabrication and characterization of novel Fe ₀ @Guar gum-crosslinked-soya lecithin nanocomposite hydrogel for photocatalytic degradation of methyl violet dye. <i>Separation and Purification Technology</i> , 2019 , 211, 895-908	8.3	106
408	Magnetically recoverable ZrO ₂ /Fe ₃ O ₄ /chitosan nanomaterials for enhanced sunlight driven photoreduction of carcinogenic Cr(VI) and dechlorination & mineralization of 4-chlorophenol from simulated waste water. <i>RSC Advances</i> , 2016 , 6, 13251-13263	3.7	105
407	A novel agricultural waste based adsorbent for the removal of Pb(II) from aqueous solution: Kinetics, equilibrium and thermodynamic studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 454-461	6.3	104
406	Synthesis and characterization of polyaniline/Alumina nanocomposite: A comparative study for the adsorption of three different anionic dyes. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 3890-3900	6.3	103
405	Highly efficient Sr/Ce/activated carbon bimetallic nanocomposite for photoinduced degradation of rhodamine B. <i>Catalysis Today</i> , 2019 , 335, 437-451	5.3	102
404	High-Performance Photocatalytic Hydrogen Production and Degradation of Levofloxacin by Wide Spectrum-Responsive Ag/FeO Bridged SrTiO ₃ /g-CN Plasmonic Nanojunctions: Joint Effect of Ag and FeO. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40474-40490	9.5	101
403	Promising prospects of nanomaterials for arsenic water remediation: A comprehensive review. <i>Chemical Engineering Research and Design</i> , 2019 , 126, 60-97	5.5	100
402	Novel guar gum/Al ₂ O ₃ nanocomposite as an effective photocatalyst for the degradation of malachite green dye. <i>International Journal of Biological Macromolecules</i> , 2016 , 87, 366-74	7.9	100
401	Fabrication and characterization of trimetallic nano-photocatalyst for remediation of ampicillin antibiotic. <i>Journal of Molecular Liquids</i> , 2018 , 260, 342-350	6	99
400	Kinetic, equilibrium isotherm and thermodynamic studies of Cr(VI) adsorption onto low-cost adsorbent developed from peanut shell activated with phosphoric acid. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 3351-65	5.1	99
399	Bio-inspired and biomaterials-based hybrid photocatalysts for environmental detoxification: A review. <i>Chemical Engineering Journal</i> , 2020 , 382, 122937	14.7	98
398	Polyacrylamide/Ni _{0.02} Zn _{0.98} O Nanocomposite with High Solar Light Photocatalytic Activity and Efficient Adsorption Capacity for Toxic Dye Removal. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15549-15560	3.9	96
397	Efficient removal of toxic phosphate anions from aqueous environment using pectin based quaternary amino anion exchanger. <i>International Journal of Biological Macromolecules</i> , 2018 , 106, 1-10	7.9	95
396	Synthesis and characterization of Fe ₃ O ₄ @TSC nanocomposite: highly efficient removal of toxic metal ions from aqueous medium. <i>RSC Advances</i> , 2016 , 6, 22679-22689	3.7	91
395	Polyacrylamide@Zr(IV) vanadophosphate nanocomposite: Ion exchange properties, antibacterial activity, and photocatalytic behavior. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 33, 201-208	6.3	87
394	ZnSe-WO nano-hetero-assembly stacked on Gum ghatti for photo-degradative removal of Bisphenol A: Symbiose of adsorption and photocatalysis. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1172-1184	7.9	85
393	Preparation of a novel chitosan-g-poly(acrylamide)/Zn nanocomposite hydrogel and its applications for controlled drug delivery of ofloxacin. <i>International Journal of Biological Macromolecules</i> , 2016 , 84, 340-8	7.9	83
392	Efficient photocatalytic degradation of toxic dyes from aqueous environment using gelatin-Zr(IV) phosphate nanocomposite and its antimicrobial activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 157, 456-463	6	82

391	Green and eco-friendly nanocomposite for the removal of toxic Hg(II) metal ion from aqueous environment: Adsorption kinetics & isotherm modelling. <i>Journal of Molecular Liquids</i> , 2019 , 279, 1-8	6	82
390	Adsorptive removal of toxic Methylene Blue and Acid Orange 7 dyes from aqueous medium using cobalt-zinc ferrite nanoadsorbents. <i>Journal of Molecular Liquids</i> , 2019 , 279, 374-385		82
389	Microwave assisted fabrication of La/Cu/Zr/carbon dots trimetallic nanocomposites with their adsorptional vs photocatalytic efficiency for remediation of persistent organic pollutants. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 347, 235-243	4.7	81
388	Fe ₃ O ₄ /ZnO/Si ₃ N ₄ nanocomposite based photocatalyst for the degradation of dyes from aqueous solution. <i>Materials Letters</i> , 2020 , 278, 128359	3.3	81
387	Highly visible active Ag ₂ CrO ₄ /Ag/BiFeO ₃ @RGO nano-junction for photoreduction of CO ₂ and photocatalytic removal of ciprofloxacin and bromate ions: The triggering effect of Ag and RGO. <i>Chemical Engineering Journal</i> , 2019 , 370, 148-165	14.7	79
386	Effective adsorption of antidiabetic pharmaceutical (metformin) from aqueous medium using graphene oxide nanoparticles: Equilibrium and statistical modelling. <i>Journal of Molecular Liquids</i> , 2020 , 301, 112426	6	79
385	Kinetics, thermodynamics and isotherm modeling for removal of nitrate from liquids by facile one-pot electrosynthesized nano zinc hydroxide. <i>Journal of Molecular Liquids</i> , 2016 , 215, 204-211	6	77
384	Guar gum-crosslinked-Soya lecithin nanohydrogel sheets as effective adsorbent for the removal of thiophanate methyl fungicide. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 295-305	7.9	76
383	Influence of Bi(3+)-doping on the magnetic and Mössbauer properties of spinel cobalt ferrite. <i>Dalton Transactions</i> , 2015 , 44, 6384-90	4.3	76
382	Visible photodegradation of ibuprofen and 2,4-D in simulated waste water using sustainable metal free-hybrids based on carbon nitride and biochar. <i>Journal of Environmental Management</i> , 2019 , 231, 1164-1175	7.9	74
381	Mechanochemical synthesis of Ag/TiO ₂ for photocatalytic methyl orange degradation and hydrogen production. <i>Chemical Engineering Research and Design</i> , 2018 , 120, 339-347	5.5	74
380	Kinetics, isotherm and thermodynamic investigations for the adsorption of Co(II) ion onto crystal violet modified amberlite IR-120 resin. <i>Ionics</i> , 2015 , 21, 1453-1459	2.7	73
379	Waste foundry sand/MgFe-layered double hydroxides composite material for efficient removal of Congo red dye from aqueous solution. <i>Scientific Reports</i> , 2020 , 10, 2042	4.9	73
378	Solar-driven photodegradation of 17- β -Estradiol and ciprofloxacin from waste water and CO ₂ conversion using sustainable coal-char/polymeric-g-C ₃ N ₄ /RGO metal-free nano-hybrids. <i>New Journal of Chemistry</i> , 2017 , 41, 10208-10224	3.6	72
377	Fabrication and characterization of sodium dodecyl sulphate@iron silicophosphate nanocomposite: Ion exchange properties and selectivity for binary metal ions. <i>Materials Chemistry and Physics</i> , 2017 , 193, 129-139	4.4	71
376	N/S doped highly porous magnetic carbon aerogel derived from sugarcane bagasse cellulose for the removal of bisphenol-A. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 1031-1038	7.9	71
375	Effective and fast adsorptive removal of toxic cationic dye (MB) from aqueous medium using amino-functionalized magnetic multiwall carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2019 , 282, 154-161	6	71
374	Ultra-sensitive polyaniline/iron oxide nanocomposite room temperature flexible ammonia sensor. <i>RSC Advances</i> , 2015 , 5, 68964-68971	3.7	70

373	Adsorption of cadmium ion using a new composite cation-exchanger polyaniline Sn(IV) silicate: kinetics, thermodynamic and isotherm studies. <i>International Journal of Environmental Science and Technology</i> , 2013 , 10, 567-578	3.3	69
372	Preparation of chitosan based magnetic nanocomposite for tetracycline adsorption: Kinetic and thermodynamic studies. <i>International Journal of Biological Macromolecules</i> , 2020 , 147, 258-267	7.9	69
371	Influence of mesoporous defect induced mixed-valent NiO (Ni ²⁺ /Ni ³⁺)-TiO ₂ nanocomposite for non-enzymatic glucose biosensors. <i>Sensors and Actuators B: Chemical</i> , 2018 , 264, 27-37	8.5	68
370	Synthesis and characterization of a new inorganic cation-exchanger-Zr(IV) tungstomolybdate: analytical applications for metal content determination in real sample and synthetic mixture. <i>Journal of Hazardous Materials</i> , 2007 , 142, 404-11	12.8	68
369	Synthesis, characterization, antimicrobial activity and applications of polyanilineTi(IV)arsenophosphate adsorbent for the analysis of organic and inorganic pollutants. <i>Journal of Hazardous Materials</i> , 2014 , 264, 481-9	12.8	66
368	Excellent adsorptive performance of a new nanocomposite for removal of toxic Pb(II) from aqueous environment: Adsorption mechanism and modeling analysis. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121896	12.8	66
367	The structural and magnetic properties of dual phase cobalt ferrite. <i>Scientific Reports</i> , 2017 , 7, 2524	4.9	64
366	Recent advances in nano-Fenton catalytic degradation of emerging pharmaceutical contaminants. <i>Journal of Molecular Liquids</i> , 2019 , 290, 111177	6	63
365	Organic/inorganic type composite cation exchanger poly-o-toluidine Zr(IV) tungstate: Preparation, physicochemical characterization and its analytical application in separation of heavy metals. <i>Chemical Engineering Journal</i> , 2011 , 172, 369-375	14.7	63
364	Development of composite ion-exchange adsorbent for pollutants removal from environmental wastes. <i>Chemical Engineering Journal</i> , 2010 , 165, 405-412	14.7	63
363	Lanthanum/Cadmium/Polyaniline bimetallic nanocomposite for the photodegradation of organic pollutant. <i>Iranian Polymer Journal (English Edition)</i> , 2015 , 24, 1003-1013	2.3	62
362	Electrochemical supercapacitor development based on electrodeposited nickel oxide film. <i>RSC Advances</i> , 2015 , 5, 51961-51965	3.7	62
361	Combined sorption/photocatalytic remediation of dyes by polyaniline Zr(IV) selenotungstophosphate nanocomposite. <i>Toxicological and Environmental Chemistry</i> , 2015 , 97, 526-537	1.4	61
360	Mixed-phase bismuth ferrite nanoflake electrodes for supercapacitor application. <i>Applied Nanoscience (Switzerland)</i> , 2016 , 6, 511-519	3.3	60
359	Synthesis and characterization of highly selective and sensitive Sn/SnO ₂ /N-doped carbon nanocomposite (Sn/SnO ₂ @NGC) for sensing toxic NH ₃ gas. <i>Chemical Engineering Journal</i> , 2018 , 345, 58-66	14.7	60
358	Synthesis, characterization and analytical applications of a new composite cation exchanger cellulose acetate-Zr(IV) molybdophosphate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 316, 217-225	5.1	60
357	CeO ₂ /g-C ₃ N ₄ /V ₂ O ₅ ternary nano hetero-structures decorated with CQDs for enhanced photo-reduction capabilities under different light sources: Dual Z-scheme mechanism. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155692	5.7	60
356	Adsorption of textile dye using para-aminobenzoic acid modified activated carbon: Kinetic and equilibrium studies. <i>Journal of Molecular Liquids</i> , 2019 , 296, 112075	6	59

355	Synthesis and characterization of polyanilineZr(IV)sulphosalicylate composite and its applications (1) electrical conductivity, and (2) antimicrobial activity studies. <i>Chemical Engineering Journal</i> , 2011 , 173, 706-714	14.7	59
354	Fabrication of MoS ₂ /ZnS embedded in N/S doped carbon for the photocatalytic degradation of pesticide. <i>Materials Letters</i> , 2020 , 263, 127271	3.3	59
353	An efficient and cost-effective tri-functional electrocatalyst based on cobalt ferrite embedded nitrogen doped carbon. <i>Journal of Colloid and Interface Science</i> , 2018 , 514, 1-9	9.3	59
352	Method for the fast determination of bromate, nitrate and nitrite by ultra performance liquid chromatography-mass spectrometry and their monitoring in Saudi Arabian drinking water with chemometric data treatment. <i>Talanta</i> , 2016 , 152, 513-20	6.2	58
351	A clean approach for the reduction of hazardous 4-nitrophenol using gold nanoparticles decorated multiwalled carbon nanotubes. <i>Journal of Cleaner Production</i> , 2018 , 191, 429-435	10.3	57
350	Polyaniline supported nanocomposite cation exchanger: Synthesis, characterization and applications for the efficient removal of Pb ²⁺ ion from aqueous medium. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 1112-1118	6.3	56
349	Synthesis and characterization of a new nanocomposite cation exchanger polyacrylamide Ce(IV) silicophosphate: Photocatalytic and antimicrobial applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 3596-3603	6.3	56
348	New insight into effective biosorption of lead from aqueous solution using <i>Ralstonia solanacearum</i> : Characterization and mechanism studies. <i>Journal of Cleaner Production</i> , 2018 , 174, 1234-1239	10.3	56
347	A review on removal of uranium(VI) ions using titanium dioxide based sorbents. <i>Journal of Molecular Liquids</i> , 2019 , 293, 111563	6	54
346	Heavy toxic metal ion exchange kinetics: Validation of ion exchange process on composite cation exchanger nylon 6,6 Zr(IV) phosphate. <i>Journal of Industrial and Engineering Chemistry</i> , 2013 , 19, 956-960	6.3	54
345	Preparation, characterization, and ion exchange behavior of nanocomposite polyaniline zirconium(IV) selenotungstophosphate for the separation of toxic metal ions. <i>Ionics</i> , 2015 , 21, 1045-1055	2.7	53
344	Synthesis and characterization of nano-composite ion-exchanger; its adsorption behavior. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 87, 122-8	6	53
343	Date seeds biomass-derived activated carbon for efficient removal of NaCl from saline solution. <i>Chemical Engineering Research and Design</i> , 2019 , 129, 103-111	5.5	52
342	Preparation, characterization and antimicrobial activity of biopolymer based nanocomposite ion exchanger pectin zirconium(IV) selenotungstophosphate: Application for removal of toxic metals. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 4482-4490	6.3	51
341	Fabrication of highly porous N/S doped carbon embedded with ZnS as highly efficient photocatalyst for degradation of bisphenol. <i>International Journal of Biological Macromolecules</i> , 2019 , 121, 415-423	7.9	51
340	Effective treatment of dye polluted wastewater using nanoporous CaCl ₂ modified polyethersulfone membrane. <i>Chemical Engineering Research and Design</i> , 2019 , 124, 266-278	5.5	50
339	Global soil pollution by toxic elements: Current status and future perspectives on the risk assessment and remediation strategies - A review. <i>Journal of Hazardous Materials</i> , 2021 , 417, 126039	12.8	50
338	Fabrication and characterization of a nanocomposite hydrogel for combined photocatalytic degradation of a mixture of malachite green and fast green dye. <i>Nanotechnology for Environmental Engineering</i> , 2017 , 2, 1	5.1	49

337	Rapid visible and solar photocatalytic Cr(VI) reduction and electrochemical sensing of dopamine using solution combustion synthesized ZnO@Fe ₂ O ₃ nano heterojunctions: Mechanism Elucidation. <i>Ceramics International</i> , 2020 , 46, 12255-12268	5.1	49
336	Adsorption thermodynamics of trichloroacetic acid herbicide on polypyrrole Th(IV) phosphate composite cation-exchanger. <i>Chemical Engineering Journal</i> , 2011 , 169, 38-42	14.7	49
335	Synthesis and characterization of a new organic/inorganic Pb ²⁺ selective composite cation exchanger acrylonitrile stannic(IV) tungstate and its analytical applications. <i>Chemical Engineering Journal</i> , 2009 , 152, 80-87	14.7	49
334	Removal of Pb(II) from aqueous solution using ethylene diamine tetra acetic acid-Zr(IV) iodate composite cation exchanger: Kinetics, isotherms and thermodynamic studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 25, 35-41	6.3	47
333	Adsorption of Sr(II) ions and salicylic acid onto magnetic magnesium-zinc ferrites: isotherms and kinetic studies. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 26681-26693	5.1	47
332	Atrazine removal using chitin-cl-poly(acrylamide-co-itaconic acid) nanohydrogel: Isotherms and pH responsive nature. <i>Carbohydrate Polymers</i> , 2020 , 241, 116258	10.3	47
331	Pollutants inducing epigenetic changes and diseases. <i>Environmental Chemistry Letters</i> , 2020 , 18, 325-343	13.3	47
330	Synthesis of NiOx@NPC composite for high-performance supercapacitor via waste PET plastic-derived Ni-MOF. <i>Composites Part B: Engineering</i> , 2020 , 183, 107655	10	46
329	Silicate glass matrix@CuO/CuVO p-n heterojunction for enhanced visible light photo-degradation of sulfamethoxazole: High charge separation and interfacial transfer. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123790	12.8	45
328	Aerogels and metal/organic frameworks for environmental remediation and energy production. <i>Environmental Chemistry Letters</i> , 2018 , 16, 797-820	13.3	44
327	Synthesis, characterization and analytical applications of a new composite cation exchange material poly-o-toluidine stannic molybdate for the separation of toxic metal ions. <i>Chemical Engineering Journal</i> , 2010 , 165, 529-536	14.7	44
326	Investigation of the electrical conductivity and optical property of polyaniline-based nanocomposite and its application as an ethanol vapor sensor. <i>New Journal of Chemistry</i> , 2015 , 39, 3728-3735	3.6	43
325	Synthesis and characterization of a thermally stable strongly acidic Cd(II) ion selective composite cation-exchanger: Polyaniline Ce(IV) molybdate. <i>Desalination</i> , 2010 , 250, 515-522	10.3	43
324	Adsorption-photocatalytic removal of fast sulphon black dye by using chitin-cl-poly(itaconic acid-co-acrylamide)/zirconium tungstate nanocomposite hydrogel. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125714	12.8	43
323	Removal of BrO ₃ ⁻ from drinking water samples using newly developed agricultural waste-based activated carbon and its determination by ultra-performance liquid chromatography-mass spectrometry. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 15853-65	5.1	42
322	Sol-gel assisted synthesis of porous nano-crystalline CoFe ₂ O ₄ composite and its application in the removal of brilliant blue-R from aqueous phase: An ecofriendly and economical approach. <i>Chemical Engineering Journal</i> , 2015 , 279, 416-424	14.7	42
321	Removal of malathion from aqueous solution using De-Acidite FF-IP resin and determination by UPLC-MS/MS: equilibrium, kinetics and thermodynamics studies. <i>Talanta</i> , 2013 , 115, 15-23	6.2	42
320	Determination of ion-exchange kinetic parameters for the poly-o-methoxyaniline Zr(IV) molybdate composite cation-exchanger. <i>Chemical Engineering Journal</i> , 2011 , 166, 639-645	14.7	42

319	Facile fabrication of Zr ₂ NiCu ₇ trimetallic nano-alloy and its composite with Si ₃ N ₄ for visible light assisted photodegradation of methylene blue. <i>Journal of Molecular Liquids</i> , 2018 , 272, 170-179	6	42
318	Synthesis, characterization and application of curcumin formaldehyde resin for the removal of Cd ²⁺ from wastewater: Kinetics, isotherms and thermodynamic studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 29, 78-86	6.3	41
317	Selenium nanostructures: microbial synthesis and applications. <i>RSC Advances</i> , 2015 , 5, 92799-92811	3.7	40
316	Bromate removal from water samples using strongly basic anion exchange resin Amberlite IRA-400: kinetics, isotherms and thermodynamic studies. <i>Desalination and Water Treatment</i> , 2016 , 57, 5781-5788		40
315	A multifunctional nanocomposite pectin thorium(IV) tungstomolybdate for heavy metal separation and photoremediation of malachite green. <i>Desalination and Water Treatment</i> , 2016 , 57, 19443-19455		39
314	Fabrication of MnFeO nanoparticles embedded chitosan-diphenylureaformaldehyde resin for the removal of tetracycline from aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2019 , 134, 180-188	7.9	39
313	Facile ball-milling synthesis of CeO ₂ /g-C ₃ N ₄ Z-scheme heterojunction for synergistic adsorption and photodegradation of methylene blue: Characteristics, kinetics, models, and mechanisms. <i>Chemical Engineering Journal</i> , 2021 , 420, 127719	14.7	38
312	Development of Multivalent Metal-Ion-Fabricated Fumaric Acid-Based Metal-Organic Frameworks for Defluoridation of Water. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 2990-3001	2.8	37
311	Quantitative determination of methylene blue in environmental samples by solid-phase extraction and ultra-performance liquid chromatography-tandem mass spectrometry: a green approach. <i>RSC Advances</i> , 2014 , 4, 34037-34044	3.7	37
310	Synthesis, Characterization, and Analytical Applications of a New Composite Cation Exchange Material Acetonitrile Stannic(IV) Selenite: Adsorption Behavior of Toxic Metal Ions in Nonionic Surfactant Medium. <i>Separation Science and Technology</i> , 2011 , 46, 847-857	2.5	37
309	Carbon quantum dots and reduced graphene oxide modified self-assembled S@C ₃ N ₄ /B@C ₃ N ₄ metal-free nano-photocatalyst for high performance degradation of chloramphenicol. <i>Journal of Molecular Liquids</i> , 2020 , 300, 112356	6	37
308	Honeycomb structured activated carbon synthesized from Pinus roxburghii cone as effective bioadsorbent for toxic malachite green dye. <i>Journal of Water Process Engineering</i> , 2019 , 32, 100931	6.7	36
307	Synthesis, characterization, photolytic degradation, electrical conductivity and applications of a nanocomposite adsorbent for the treatment of pollutants. <i>RSC Advances</i> , 2012 , 2, 7207	3.7	36
306	Development, Characterization and Ion Exchange Thermodynamics for a New Crystalline Composite Cation Exchange Material: Application for the Removal of Pb ²⁺ Ion from a Standard Sample (Rompin Hematite). <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2011 , 21, 547-559	3.2	36
305	AgNPs embedded N- doped highly porous carbon derived from chitosan based hydrogel as catalysts for the reduction of 4-nitrophenol. <i>Composites Part B: Engineering</i> , 2019 , 173, 106950	10	35
304	Solution-processed nickel oxide films and their liquefied petroleum gas sensing activity. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 2008-2015	5.7	35
303	Synthesis of sodium dodecyl sulfate-supported nanocomposite cation exchanger: removal and recovery of Cu ²⁺ from synthetic, pharmaceutical and alloy samples. <i>Journal of the Iranian Chemical Society</i> , 2015 , 12, 1677-1686	2	35
302	Chitosan polymer complex derived nanocomposite (AgNPs/NSC) for electrochemical non-enzymatic glucose sensor. <i>International Journal of Biological Macromolecules</i> , 2020 , 146, 763-772	7.9	35

301	Photocatalytic degradation of bisphenol-A with g-C ₃ N ₄ /MoS ₂ -PANI nanocomposite: Kinetics, main active species, intermediates and pathways. <i>Journal of Molecular Liquids</i> , 2020 , 311, 113339	6	34
300	Removal of Ni(II) from aqueous solution by <i>Lycopersicon esculentum</i> (Tomato) leaf powder as a low-cost biosorbent. <i>Desalination and Water Treatment</i> , 2015 , 54, 200-208		34
299	Forward (M ₂ +H ⁺) and reverse (H+M ₂) ion exchange kinetics of the heavy metals on polyaniline Ce(IV) molybdate: A simple practical approach for the determination of regeneration and separation capability of ion exchanger. <i>Chemical Engineering Journal</i> , 2011 , 171, 456-463	14.7	34
298	Nanoporous Iron Oxide/Carbon Composites through In-Situ Deposition of Prussian Blue Nanoparticles on Graphene Oxide Nanosheets and Subsequent Thermal Treatment for Supercapacitor Applications. <i>Nanomaterials</i> , 2019 , 9,	5.4	33
297	Water Purification Using Cost Effective Material Prepared from Agricultural Waste: Kinetics, Isotherms, and Thermodynamic Studies. <i>Clean - Soil, Air, Water</i> , 2016 , 44, 1036-1045	1.6	33
296	Heavy-metals separation from industrial effluent, natural water as well as from synthetic mixture using synthesized novel composite adsorbent. <i>Chemical Engineering Journal</i> , 2011 , 175, 8-16	14.7	33
295	Magnetic graphene/chitosan nanocomposite: A promising nano-adsorbent for the removal of 2-naphthol from aqueous solution and their kinetic studies. <i>International Journal of Biological Macromolecules</i> , 2020 , 159, 530-538	7.9	33
294	Optimization of fluoride removal from aqueous solution by Al ₂ O ₃ nanoparticles. <i>Journal of Molecular Liquids</i> , 2017 , 238, 254-262	6	32
293	Carbon nitride, metal nitrides, phosphides, chalcogenides, perovskites and carbides nanophotocatalysts for environmental applications. <i>Environmental Chemistry Letters</i> , 2019 , 17, 655-682	13.3	32
292	Contrasting effects of biochar and hydrothermally treated coal gangue on leachability, bioavailability, speciation and accumulation of heavy metals by rapeseed in copper mine tailings. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 191, 110244	7	31
291	Synthesis, characterization and electrical conductivity of Polyaniline-Sn(IV)tungstophosphate hybrid cation exchanger: Analytical application for removal of heavy metal ions from wastewater. <i>Desalination</i> , 2014 , 340, 73-83	10.3	31
290	Mechanism analysis of tartrazine biosorption onto masau stones; a low cost by-product from semi-arid regions. <i>Journal of Molecular Liquids</i> , 2017 , 242, 478-483	6	31
289	Utilization of waste polyethylene terephthalate bottles to develop metal-organic frameworks for energy applications: A clean and feasible approach. <i>Journal of Cleaner Production</i> , 2020 , 248, 119251	10.3	31
288	Enhanced biohydrogen production from date seeds by <i>Clostridium thermocellum</i> ATCC 27405. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 22271-22280	6.7	31
287	A highly porous nanocomposite (Fe ₃ O ₄ @BFR) for the removal of toxic Cd(II) ions from aqueous environment: Adsorption modelling and regeneration study. <i>Composites Part B: Engineering</i> , 2019 , 172, 179-185	10	30
286	Remediation of anionic dye from aqueous system using bio-adsorbent prepared by microwave activation. <i>Environmental Technology (United Kingdom)</i> , 2018 , 39, 917-930	2.6	30
285	Development of nano-composite adsorbent for removal of heavy metals from industrial effluent and synthetic mixtures; its conducting behavior. <i>Desalination</i> , 2012 , 289, 1-11	10.3	30
284	Efficient photocatalytic degradation of toxic dyes using nanostructured TiO ₂ /polyaniline nanocomposite		30

283	Synthesis, Characterization, and Biological Applications of Nanocomposites for the Removal of Heavy Metals and Dyes. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 76-82	3.9	29
282	Equilibrium, kinetics and thermodynamic studies for the removal of organophosphorus pesticide using Amberlyst-15 resin: Quantitative analysis by liquid chromatography-mass spectrometry. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 4393-4400	6.3	29
281	Synthesis and electrochemical supercapacitive performance of nickel-manganese ferrite composite films. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 116, 177-182	6	28
280	Removal of Heavy Metals from Synthetic Mixture as well as Pharmaceutical Sample Via Cation Exchange Resin Modified with Rhodamine B: Its Thermodynamic and Kinetic Studies. <i>Clean - Soil, Air, Water</i> , 2011 , 39, 1120-1128	1.6	28
279	Synthesis, characterization and analytical application of hybrid; acrylamide zirconium (IV) arsenate a cation exchanger, effect of dielectric constant on distribution coefficient of metal ions. <i>Journal of Hazardous Materials</i> , 2009 , 163, 657-64	12.8	28
278	Synthesis, characterization and analytical applications of titanium(IV) molybdo-silicate: A cation ion-exchanger. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 302, 241-250	5.1	28
277	Green synthesis, structure, cations distribution and bonding characteristics of superparamagnetic cobalt-zinc ferrites nanoparticles for Pb(II) adsorption and magnetic hyperthermia applications. <i>Journal of Molecular Liquids</i> , 2021 , 328, 115375	6	28
276	Sprayed zinc oxide films: Ultra-violet light-induced reversible surface wettability and platinum-sensitization-assisted improved liquefied petroleum gas response. <i>Journal of Colloid and Interface Science</i> , 2016 , 480, 109-117	9.3	28
275	Development of a polymeric nanocomposite as a high performance adsorbent for Pb(II) removal from water medium: Equilibrium, kinetic and antimicrobial activity. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124816	12.8	28
274	Sources and impacts of pharmaceutical components in wastewater and its treatment process: A review. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 2787-2805	2.8	27
273	Adsorption of methylene blue on chemically modified pine nut shells in single and binary systems: isotherms, kinetics, and thermodynamic studies. <i>Desalination and Water Treatment</i> , 2016 , 57, 15848-15861		27
272	Studies of cation-exchange thermodynamics for alkaline earths and transition metal ions on a new crystalline cation-exchanger aluminium tungstate: Effect of the surfactant concentration on distribution coefficients of metal ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 302, 175-184	5.1	27
271	Applications of artificial intelligence in water treatment for optimization and automation of adsorption processes: Recent advances and prospects. <i>Chemical Engineering Journal</i> , 2022 , 427, 130011	14.7	27
270	Gold sensitized sprayed SnO ₂ nanostructured film for enhanced LPG sensing. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 124, 362-368	6	26
269	Preparation of camphor-sulfonic acid doped PPy-NiO hybrid nanocomposite for detection of toxic nitrogen dioxide. <i>Synthetic Metals</i> , 2015 , 209, 426-433	3.6	26
268	Polyaniline-cobalt hydroxide hybrid nanostructures and their supercapacitor studies. <i>Materials Chemistry and Physics</i> , 2016 , 180, 226-236	4.4	26
267	Solar active nano-Zn _{1-x} Mg _x Fe ₂ O ₄ as a magnetically separable sustainable photocatalyst for degradation of sulfadiazine antibiotic. <i>Journal of Molecular Liquids</i> , 2019 , 294, 111574	6	26
266	A new electron exchange material Ti(IV) iodovanadate: Synthesis, characterization and analytical applications. <i>Chemical Engineering Journal</i> , 2010 , 158, 100-107	14.7	26

265	Design and development of amine functionalized iron based metal organic frameworks for selective fluoride removal from water environment. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104563	6.8	26
264	Optimization of glassy carbon electrode based graphene/ferritin/glucose oxidase bioanode for biofuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 7417-7421	6.7	25
263	A New Hybrid EDTA-Zirconium Phosphate Cation-Exchanger: Synthesis, Characterization and Adsorption Behaviour for Environmental Monitoring. <i>Adsorption Science and Technology</i> , 2009 , 27, 423-434	3.6	25
262	Robust magnetic ZnO-FeO Z-scheme heterojunctions with in-built metal-redox for high performance photo-degradation of sulfamethoxazole and electrochemical dopamine detection. <i>Environmental Research</i> , 2021 , 197, 111074	7.9	25
261	Fabrication of highly porous adsorbent derived from bio-based polymer metal complex for the remediation of water pollutants. <i>Journal of Cleaner Production</i> , 2019 , 208, 1317-1326	10.3	25
260	Adsorption of cationic dyes onto carrageenan and itaconic acid-based superabsorbent hydrogel: Synthesis, characterization and isotherm analysis. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126729	12.8	25
259	Synthesis of a recyclable mesoporous nanocomposite for efficient removal of toxic Hg 2+ from aqueous medium. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 53, 268-275	6.3	24
258	Nanomorphology-dependent pseudocapacitive properties of NiO electrodes engineered through a controlled potentiodynamic electrodeposition process. <i>RSC Advances</i> , 2016 , 6, 24478-24483	3.7	24
257	Effect of Natural Food Condiments on Carcinogenic/Mutagenic Heterocyclic Amines Formation in Thermally Processed Camel Meat. <i>Journal of Food Processing and Preservation</i> , 2017 , 41, e12819	2.1	23
256	Adsorption of Sr(II) cations onto phosphated mesoporous titanium dioxide: Mechanism, isotherm and kinetics studies. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103430	6.8	23
255	Development of sulfonated poly(vinyl alcohol)/polypyrrole based ionic polymer metal composite (IPMC) actuator and its characterization. <i>Smart Materials and Structures</i> , 2015 , 24, 095003	3.4	23
254	Treatment of fluoride-contaminated water. A review. <i>Environmental Chemistry Letters</i> , 2019 , 17, 1707-1726	12.5	23
253	Natural Carbonized Sugar as a Low-Temperature Ammonia Sensor Material: Experimental, Theoretical, and Computational Studies. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43051-43060	9.5	23
252	Removal of Bromate from Water Using De-Acidite FF-IP Resin and Determination by Ultra-Performance Liquid Chromatography-Tandem Mass Spectrometry. <i>Clean - Soil, Air, Water</i> , 2013 , 41, 528-533	1.6	23
251	Emerging contaminants of high concern for the environment: Current trends and future research.. <i>Environmental Research</i> , 2021 , 207, 112609	7.9	23
250	Fabrication of oxidized graphite supported La ₂ O ₃ /ZrO ₂ nanocomposite for the photoremediation of toxic fast green dye. <i>Journal of Molecular Liquids</i> , 2019 , 277, 738-748	6	23
249	Evaluation of synthesized green carbon catalyst from waste date pits for tertiary butylation of phenol. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 298-307	5.9	23
248	Microwave-assisted synthesis and magneto-electrical properties of Mg-Zn ferrimagnetic oxide nanostructures. <i>Physica B: Condensed Matter</i> , 2018 , 530, 177-182	2.8	23

247	Ultra-fast spill oil recovery using a mesoporous lignin based nanocomposite prepared from date palm pits (<i>Phoenix dactylifera</i> L.). <i>International Journal of Biological Macromolecules</i> , 2019 , 130, 139-147	7.9	22
246	Solid phase extraction and ultra performance liquid chromatography-tandem mass spectrometric identification of carcinogenic/mutagenic heterocyclic amines in cooked camel meat. <i>RSC Advances</i> , 2015 , 5, 2479-2485	3.7	22
245	Structural, morphological and electrochemical supercapacitive properties of sprayed manganese ferrite thin film electrode. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016 , 122, 224-229	6	22
244	Analytical and environmental applications of polyaniline Sn(IV) tungstoarsenate and polypyrrole polyantimonic acid composite cation-exchangers. <i>Journal of Industrial and Engineering Chemistry</i> , 2013 , 19, 1973-1980	6.3	22
243	Electrochemical synthesis and potential electrochemical energy storage performance of nodule-type polyaniline. <i>Journal of Colloid and Interface Science</i> , 2017 , 487, 458-464	9.3	22
242	High-Performance Platinum-Free Dye-Sensitized Solar Cells with Molybdenum Disulfide Films as Counter Electrodes. <i>ChemPhysChem</i> , 2015 , 16, 3959-65	3.2	22
241	Utilizing recycled LiFePO from batteries in combination with B@CN and CuFeO as sustainable nano-junctions for high performance degradation of atenolol. <i>Chemosphere</i> , 2018 , 209, 457-469	8.4	22
240	Protective role of biogenic selenium nanoparticles in immunological and oxidative stress generated by enrofloxacin in broiler chicken. <i>Dalton Transactions</i> , 2016 , 45, 8845-53	4.3	22
239	Feasibility of toxic metal removal from aqueous medium using Schiff-base based highly porous nanocomposite: Adsorption characteristics and post characterization. <i>Journal of Molecular Liquids</i> , 2019 , 294, 111598	6	21
238	Structural and optical properties of nanocrystalline Sb ₂ S ₃ films deposited by chemical solution deposition. <i>Optical Materials</i> , 2015 , 46, 536-541	3.3	21
237	Improved Photoelectrochemical Cell Performance of Tin Oxide with Functionalized Multiwalled Carbon Nanotubes-Cadmium Selenide Sensitizer. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25094-104	9.5	21
236	Sputtering and sulfurization-combined synthesis of a transparent WS ₂ counter electrode and its application to dye-sensitized solar cells. <i>RSC Advances</i> , 2015 , 5, 103567-103572	3.7	21
235	Fabrication of Z-scheme photocatalysts g-CN/AgPO/chitosan for the photocatalytic degradation of ciprofloxacin. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 3864-3872	7.9	21
234	Carboxymethyl cellulose structured nano-adsorbent for removal of methyl violet from aqueous solution: isotherm and kinetic analyses. <i>Cellulose</i> , 2020 , 27, 3677-3691	5.5	21
233	Promising ZnO-based DSSC performance using HMP molecular dyes of high extinction coefficients. <i>Dalton Transactions</i> , 2014 , 43, 11305-8	4.3	21
232	Synthesis and characterization of polyaniline Zr(IV) molybdophosphate for the adsorption of phenol from aqueous solution. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2014 , 113, 499-517	1.6	21
231	Synthesis of polyaniline based composite material and its analytical applications for the removal of highly toxic Hg ²⁺ metal ion: Antibacterial activity against <i>E. coli</i> . <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 1970-1979	2.8	21
230	Mesoporous PtCu Alloy Nanoparticles with Tunable Compositions and Particles Sizes Using Diblock Copolymer Micelle Templates. <i>Chemistry - A European Journal</i> , 2019 , 25, 343-348	4.8	21

229	Metal/metal oxide nanocomposites for bactericidal effect: A review. <i>Chemosphere</i> , 2021 , 272, 128607	8.4	21
228	Bifunctional Electrocatalysts (Co ₉ S ₈ @NSC) Derived from a Polymer-metal Complex for the Oxygen Reduction and Oxygen Evolution Reactions. <i>ChemElectroChem</i> , 2018 , 5, 355-361	4.3	21
227	Graphitic Carbon Nitride/Nickel Catalyst: From Material Characterization to Efficient Ethanol Electrooxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7244-7255	8.3	20
226	Sorption studies of metal ions on naphthol blue/black modified Amberlite IR-400 anion exchange resin: Separation and determination of metal ion contents of pharmaceutical preparation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 280, 66-70	5.1	20
225	Functionalized MoS ₂ /polyurethane sponge: An efficient scavenger for oil in water. <i>Separation and Purification Technology</i> , 2020 , 238, 116420	8.3	20
224	Engineered nanoparticles for removal of pollutants from wastewater: Current status and future prospects of nanotechnology for remediation strategies. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106160	6.8	20
223	Graphene oxide supported La/Co/Ni trimetallic nano-scale systems for photocatalytic remediation of 2-chlorophenol. <i>Journal of Molecular Liquids</i> , 2019 , 294, 111605	6	19
222	Metal organic framework derived nickel phosphide/graphitic carbon hybrid for electrochemical hydrogen generation reaction. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 96, 634-638	5.3	19
221	Adsorption of methylene blue on strongly basic anion exchange resin (Zerolit DMF): kinetic, isotherm, and thermodynamic studies. <i>Desalination and Water Treatment</i> , 2015 , 53, 515-523		19
220	Constructing Z-scheme LaTiO ₂ N/g-C ₃ N ₄ @Fe ₃ O ₄ magnetic nano heterojunctions with promoted charge separation for visible and solar removal of indomethacin. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101391	6.7	19
219	Immunosensor based on nanocomposite of nanostructured zirconium oxide and gelatin-A. <i>International Journal of Biological Macromolecules</i> , 2016 , 82, 480-7	7.9	19
218	Synthesis, Characterization, and Photocatalytic Activity of Polyaniline-Sn(IV)iodophosphate Nanocomposite: Its Application in Wastewater Detoxification. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15253-15260	3.9	19
217	Evaluation of heavy metal kinetics through pyridine based Th(IV) phosphate composite cation exchanger using particle diffusion controlled ion exchange phenomenon. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 705-709	6.3	19
216	Synthesis and characterization of a new cation exchanger-zirconium(IV)iodotungstate: separation and determination of metal ion contents of synthetic mixtures, pharmaceutical preparations and standard reference material. <i>Journal of Hazardous Materials</i> , 2009 , 172, 202-7	12.8	19
215	Synthesis of a crystalline organic/organic composite exchanger, acrylamide stannic silicomolybdate: Binary and quantitative separation of metal ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 337, 141-145	5.1	19
214	Efficient removal of Co(II) metal ion from aqueous solution using cost effective oxidized activated carbon: kinetic and isotherm studies 2017 , 70, 220-226		19
213	Water quality assessment of shallow aquifer based on Canadian Council of Ministers of the environment index and its impact on irrigation of Mathura District, Uttar Pradesh. <i>Journal of King Saud University - Science</i> , 2020 , 32, 1218-1225	3.6	19
212	Hydrometallurgical processes for heavy metals recovery from industrial sludges. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-41	11.1	19

211	Hospital wastewater as a source of environmental contamination: An overview of management practices, environmental risks, and treatment processes. <i>Journal of Water Process Engineering</i> , 2021 , 41, 101990	6.7	19
210	Synthesis of phosphorylated raw sawdust for the removal of toxic metal ions from aqueous medium: Adsorption mechanism for clean approach. <i>Journal of Sol-Gel Science and Technology</i> , 2019 , 89, 602-615	2.3	19
209	LaTiO ₂ N/Bi ₂ S ₃ Z-scheme nano heterostructures modified by rGO with high interfacial contact for rapid photocatalytic degradation of tetracycline. <i>Journal of Molecular Liquids</i> , 2020 , 311, 113300	6	18
208	Fabrication of magnetic polymeric resin for the removal of toxic metals from aqueous medium: Kinetics and adsorption mechanisms. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101284	6.7	18
207	Fabrication of hybrid nanocomposite derived from chitosan as efficient electrode materials for supercapacitor. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 2271-2278	7.9	18
206	Adsorptive removal of nitrate from synthetic and commercially available bottled water samples using De-Acidite FF-IP resin. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 3400-3407	6.3	18
205	Predominant mechanisms for the removal of nickel metal ion from aqueous solution using cement kiln dust. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101033	6.7	18
204	Low cost and quick time absorption of organic dye pollutants under ambient condition using partially exfoliated graphite. <i>Journal of Water Process Engineering</i> , 2020 , 34, 101078	6.7	18
203	Recent technologies for nutrient removal and recovery from wastewaters: A review. <i>Chemosphere</i> , 2021 , 277, 130328	8.4	18
202	Removal of Cd(II) ion from aqueous environment using triaminotriethoxysilane grafted oxidized activated carbon synthesized via activation and subsequent silanization. <i>Environmental Technology and Innovation</i> , 2020 , 18, 100686	7	17
201	N/S-doped carbon embedded with AgNPs as a highly efficient catalyst for the reduction of toxic organic pollutants. <i>Materials Letters</i> , 2020 , 264, 127310	3.3	17
200	Electrochemical studies of biocatalytic anode of sulfonated graphene/ferritin/glucose oxidase layer-by-layer biocomposite films for mediated electron transfer. <i>Enzyme and Microbial Technology</i> , 2016 , 87-88, 29-36	3.8	17
199	Synthesis and characterization of novel cation exchange adsorbent for the treatment of real samples for metal ions. <i>Chemical Engineering Journal</i> , 2012 , 200-202, 426-432	14.7	17
198	Process intensification and comparison of bioethanol production from food industry waste (potatoes) by ultrasonic assisted acid hydrolysis and enzymatic hydrolysis: Statistical modelling and optimization. <i>Biomass and Bioenergy</i> , 2020 , 142, 105752	5.3	17
197	Analysis of degradation pathways and intermediates products for ciprofloxacin using a highly porous photocatalyst. <i>Chemical Engineering Journal</i> , 2021 , 417, 127969	14.7	17
196	Acceleration of photo-reduction and oxidation capabilities of Bi ₄ O ₅ I ₂ /SPION@calcium alginate by metallic Ag: Wide spectral removal of nitrate and azithromycin. <i>Chemical Engineering Journal</i> , 2021 , 423, 130173	14.7	17
195	Fabrication of bioanode by using electrically conducting polythiophene via entrapment technique. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 120-125	2.8	16
194	Synthesis and characterization of egg-albumen-formaldehyde based magnetic polymeric resin (MPR): Highly efficient adsorbent for Cd(II) ion removal from aqueous medium. <i>Journal of Molecular Liquids</i> , 2019 , 286, 110951	6	16

193	Synthesis and characterisation of poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) (PEDOT:PSS) Zr(IV) monothiophosphate composite cation exchanger: analytical application in the selective separation of lead metal ions. <i>International Journal of Environmental Analytical Chemistry</i> , 2015 , 95, 556-568	1.8	16
192	Kinetics and Thermodynamics of Alkaline Earth and Heavy Metal Ion Exchange under Particle Diffusion Controlled Phenomenon Using Polyaniline-Sn(IV)iodophosphate Nanocomposite. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 2677-2685	2.8	16
191	Determination of heavy metals in skin-whitening cosmetics using microwave digestion and inductively coupled plasma atomic emission spectrometry. <i>IET Nanobiotechnology</i> , 2017 , 11, 597-603	2	16
190	Evaluation of Phosphate Removal Efficiency from Aqueous Solution by Polypyrrole/BOF Slag Nanocomposite. <i>Separation Science and Technology</i> , 2014 , 49, 2668-2680	2.5	16
189	Synthesis of a Novel Composite Sorbent Coated with Siderite Nanoparticles and its Application for Remediation of Water Contaminated with Congo Red Dye. <i>International Journal of Environmental Research</i> , 2020 , 14, 177-191	2.9	16
188	Designing of bentonite based nanocomposite hydrogel for the adsorptive removal and controlled release of ampicillin. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114166	6	16
187	Development of watermelon rind derived activated carbon/manganese ferrite nanocomposite for cleaner desalination by capacitive deionization. <i>Journal of Cleaner Production</i> , 2020 , 272, 122626	10.3	16
186	Cation distribution, magnetic properties and cubic-perovskite phase transition in bismuth-doped nickel ferrite. <i>Solid State Sciences</i> , 2017 , 74, 88-94	3.4	15
185	Ag0-Ag2O embedded nanocomposite hydrogel for adsorption-coupled-photocatalytic removal of triclosan. <i>Materials Letters</i> , 2020 , 276, 128169	3.3	15
184	DSSCs synergic effect in thin metal oxide layer-functionalized SnO2 photoanodes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 295, 64-69	4.7	15
183	Heavy metal ion-exchange kinetic studies over cellulose acetate Zr(IV) molybdophosphate composite cation-exchanger. <i>Desalination and Water Treatment</i> , 2015 , 53, 1675-1682		15
182	A new ion-selective electrode based on aluminium tungstate for Fe(III) determination in rock sample, pharmaceutical sample and water sample. <i>Bulletin of Materials Science</i> , 2008 , 31, 957-965	1.7	15
181	Humic acid coated sand as a novel sorbent in permeable reactive barrier for environmental remediation of groundwater polluted with copper and cadmium ions. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101373	6.7	15
180	AgO/MgO/FeO@Si3N4 nanocomposite with robust adsorption capacity for tetracycline antibiotic removal from aqueous system. <i>Advanced Powder Technology</i> , 2020 , 31, 4310-4318	4.6	15
179	Fabrication of amino functionalized benzene-1,4-dicarboxylic acid facilitated cerium based metal organic frameworks for efficient removal of fluoride from water environment. <i>Environmental Science: Water Research and Technology</i> , 2021 , 7, 384-395	4.2	15
178	Synthesis and characterization of YVO4:Eu3+ nanoparticles: kinetics and isotherm studies for the removal of Cd2+ metal ion. <i>Desalination and Water Treatment</i> , 2016 , 57, 2081-2088		14
177	Preparation of polyaniline based nanocomposite material and their environmental applications. <i>International Journal of Environmental Science and Technology</i> , 2015 , 12, 3635-3642	3.3	14
176	A sustainable approach to utilize olive pips for the sorption of lead ions: Numerical modeling with aid of artificial neural network. <i>Sustainable Chemistry and Pharmacy</i> , 2020 , 15, 100220	3.9	14

175	Photosensitization of ZnO nanowire-based electrodes using one-step hydrothermally synthesized CdSe/CdS (core/shell) sensitizer. <i>Solar Energy</i> , 2016 , 125, 125-134	6.8	14
174	Study and preparation of highly water-stable polyacrylonitrile/ratone/graphene composite membrane for bending actuator toward robotic application. <i>Journal of Intelligent Material Systems and Structures</i> , 2016 , 27, 1534-1546	2.3	14
173	Removal of toxic metal ions by using composite cation-exchange material. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 3438-3446	2.9	14
172	Recent Developments in the Synthesis, Characterization and Applications of Zirconium(IV) Based Composite Ion Exchangers. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013 , 23, 257-269	3.2	14
171	Hydrothermal fabrication of triazine-functionalized covalent organic polymer enfolded alginate biocomposite beads for Cr(VI) removal from water. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 851-863	4.2	14
170	Gum Acacia-cl-poly(acrylamide)@carbon nitride Nanocomposite Hydrogel for Adsorption of Ciprofloxacin and its Sustained Release in Artificial Ocular Solution. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 2000274	3.9	14
169	Utilization of AgO-AlO-ZrO decorated onto rGO as adsorbent for the removal of Congo red from aqueous solution. <i>Environmental Research</i> , 2021 , 197, 111179	7.9	14
168	High removal of emerging contaminants from wastewater by activated carbons derived from the shell of cashew of Para. <i>Carbon Letters</i> , 2021 , 31, 13-28	2.3	14
167	Coronavirus 2 (SARS-CoV-2) in water environments: Current status, challenges and research opportunities. <i>Journal of Water Process Engineering</i> , 2021 , 39, 101735	6.7	14
166	Electrochemical supercapacitors of cobalt hydroxide nanoplates grown on conducting cadmium oxide base-electrodes. <i>Arabian Journal of Chemistry</i> , 2017 , 10, 515-522	5.9	13
165	Pseudocapacitive performance of a solution-processed Co(OH) electrode monitored through its surface morphology and area. <i>Dalton Transactions</i> , 2017 , 46, 3393-3399	4.3	13
164	Cooking with elaborate recipes can reduce the formation of mutagenic heterocyclic amines and promote co-mutagenic amines. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2019 , 36, 385-395	3.2	13
163	NiMnCr layered double hydroxide-carbon spheres modified Ni foam: An efficient positive electrode for hybrid supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 396, 125370	14.7	13
162	Predominant Mechanisms in the Treatment of Wastewater Due to Interaction of Benzaldehyde and Iron Slag Byproduct. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 17,	4.6	13
161	Environmental remediation of synthetic leachate produced from sanitary landfills using low-cost composite sorbent. <i>Environmental Technology and Innovation</i> , 2020 , 18, 100680	7	13
160	A mercury ion selective electrode based on poly-o-toluidine Zr(IV) tungstate composite membrane. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 713, 125-130	4.1	13
159	Low-temperature solution-processed Zn-doped SnO ₂ photoanodes: enhancements in charge collection efficiency and mobility. <i>RSC Advances</i> , 2014 , 4, 20527-20530	3.7	13
158	A simple wet-chemical synthesis, reaction mechanism, and charge storage application of cobalt oxide electrodes of different morphologies. <i>Electrochimica Acta</i> , 2017 , 253, 151-162	6.7	13

157	Green synthesis and dye-sensitized solar cell application of rutile and anatase TiO ₂ nanorods. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 2713-2718	2.6	13
156	A New Pb ²⁺ Ion-selective Hybrid Cation-exchanger [EDTA]zirconium Iodate: Synthesis, Characterization and Analytical Applications. <i>Adsorption Science and Technology</i> , 2008 , 26, 463-478	3.6	13
155	Potassium hydroxide-treated palm kernel shell sorbents for the efficient removal of methyl violet dye84, 262-270		13
154	Synthesis, Characterization and Environmental Applications of a New Bio-Composite Gelatin-Zr(IV) Phosphate. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 1415-1424	4.5	13
153	Facile fabrication of chitosan-cl-poly(AA)/ZrPO ₄ nanocomposite for remediation of rhodamine B and antimicrobial activity. <i>Journal of King Saud University - Science</i> , 2020 , 32, 1359-1365	3.6	13
152	Structurally controlled layered Ni ₃ C/graphene hybrids using cyano-bridged coordination polymers. <i>Electrochemistry Communications</i> , 2019 , 100, 74-80	5.1	13
151	Research Updates on Heavy Metal Phytoremediation: Enhancements, Efficient Post-harvesting Strategies and Economic Opportunities. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 191-222	0.8	13
150	Incorporation of trimetallic nanoparticles to the SiO ₂ matrix for the removal of methylene blue dye from aqueous medium. <i>Journal of Molecular Liquids</i> , 2021 , 336, 116274	6	13
149	Nanostructured magnetic inverse spinel Ni ₂ Zn ferrite as environmental friendly visible light driven photo-degradation of levofloxacin. <i>Chemical Engineering Research and Design</i> , 2021 , 175, 85-101	5.5	13
148	Microfabrication of Triazine Functionalized Graphene Oxide Anchored Alginate Bead System for Effective Nutrients Removal. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 2712-2724	2.8	12
147	Determination of dopamine in pharmaceutical formulation using enhanced luminescence from europium complex. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 93, 331-44	4.4	12
146	Nicotinic acid adsorption thermodynamics study on carboxymethyl cellulose Ce(IV) molybdophosphate composite cation-exchanger. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 111, 831-838	4.1	12
145	Adsorption of caesium from aqueous solution using cerium molybdateβan composite. <i>Chemistry and Ecology</i> , 2012 , 28, 169-185	2.3	12
144	Fe ₃ O ₄ mediated Z-scheme BiVO ₄ /Cr ₂ V ₄ O ₁₃ strongly coupled nano-heterojunction for rapid degradation of fluoxetine under visible light. <i>Materials Letters</i> , 2020 , 281, 128650	3.3	12
143	COMSOL multiphysics 3.5a package for simulating the cadmium transport in the sand bed-bentonite low permeable barrier. <i>Journal of King Saud University - Science</i> , 2020 , 32, 1944-1952	3.6	12
142	Environmental friendly and robust Mg _{0.5} -xCu _x Zn _{0.5} Fe ₂ O ₄ spinel nanoparticles for visible light driven degradation of Carbamazepine: Band shift driven by dopants. <i>Materials Letters</i> , 2021 , 284, 129003	3.3	12
141	Effect of seasonal variation on the occurrences of high-risk pharmaceutical in drain-laden surface water: A risk analysis of Yamuna River. <i>Science of the Total Environment</i> , 2021 , 794, 148484	10.2	12
140	Occurrence of acrylamide carcinogen in Arabic coffee Qahwa, coffee and tea from Saudi Arabian market. <i>Scientific Reports</i> , 2017 , 7, 41995	4.9	11

139	Fe/La/Zn nanocomposite with graphene oxide for photodegradation of phenylhydrazine. <i>Journal of Molecular Liquids</i> , 2019 , 285, 362-374	6	11
138	Poly(3,4-ethylenedioxythiophene):polystyrene sulfonate zirconium(IV) phosphate (PEDOT:PSS/rP) composite ionomeric membrane for artificial muscle applications. <i>RSC Advances</i> , 2015 , 5, 84526-84534	3.7	11
137	Sodium Dodecyl Sulphate-Supported Nanocomposite as Drug Carrier System for Controlled Delivery of Ondansetron. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	11
136	Synthesis and structural, morphological, compositional, optical and electrical properties of DBSA-doped PPy/WO ₃ nanocomposites. <i>Progress in Organic Coatings</i> , 2015 , 87, 88-94	4.8	11
135	Generation of novel n-p-n (CeO-PPy-ZnO) heterojunction for photocatalytic degradation of micro-organic pollutants. <i>Environmental Pollution</i> , 2022 , 292, 118375	9.3	11
134	Hexamethylenetetramine-mediated TiO ₂ films: Facile chemical synthesis strategy and their use in nitrogen dioxide detection. <i>Materials Letters</i> , 2016 , 173, 9-12	3.3	11
133	An eco-friendly physicochemical-based rapid synthesis of selenium nanoparticles. <i>RSC Advances</i> , 2016 , 6, 48420-48426	3.7	11
132	Nitrogen-doped carbon quantum dots (N-CQDs)/Co ₃ O ₄ nanocomposite for high performance supercapacitor. <i>Journal of King Saud University - Science</i> , 2021 , 33, 101252	3.6	11
131	Recent advances on nickel nano-ferrite: A review on processing techniques, properties and diverse applications. <i>Chemical Engineering Research and Design</i> , 2021 , 175, 182-208	5.5	11
130	Accelerated charge transfer in well-designed S-scheme Fe@TiO ₂ /Boron carbon nitride heterostructures for high performance tetracycline removal and selective photo-reduction of CO ₂ greenhouse gas into CH ₄ fuel. <i>Chemosphere</i> , 2022 , 287, 132301	8.4	11
129	Diameter-dependent electrochemical supercapacitive properties of anodized titanium oxide nanotubes. <i>Scripta Materialia</i> , 2015 , 104, 60-63	5.6	10
128	A biopolymer-based hybrid cation exchanger pectin cerium(IV) iodate: synthesis, characterization, and analytical applications. <i>Desalination and Water Treatment</i> , 2014 , 1-8		10
127	EDTA-stannic(IV)iodate: preparation, characterization and its analytical applications for metal content determination in real and synthetic samples. <i>Journal of Porous Materials</i> , 2009 , 16, 587-597	2.4	10
126	Sorption of Metal Ions on Acrylamidezirconium (IV) Arsenate and its Synthesis of PVC based Lead (II) Selective Electrode. <i>Separation Science and Technology</i> , 2008 , 43, 164-178	2.5	10
125	Development and validation of the HPLC method for the analysis of trimetazidine hydrochloride in bulk drug and pharmaceutical dosage forms. <i>Journal of Analytical Chemistry</i> , 2008 , 63, 965-970	1.1	10
124	Green Synthesis of Metal and Metal Oxide Nanoparticles: Principles of Green Chemistry and Raw Materials. <i>Magnetochemistry</i> , 2021 , 7, 145	3.1	10
123	Efficient removal of antidepressant Fluoxetine using graphene oxide/cellulose nanogel composite: Particle swarm algorithm based artificial neural network modelling and optimization. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114371	6	10
122	Mg _{0.5} Ni _x Zn _{0.5-x} Fe ₂ O ₄ spinel as a sustainable magnetic nano-photocatalyst with dopant driven band shifting and reduced recombination for visible and solar degradation of Reactive Blue-19. <i>Advanced Powder Technology</i> , 2020 , 31, 4585-4597	4.6	10

121	Covalent Organic Frameworks: Synthesis, Properties and Applications-An Overview. <i>Polymers</i> , 2021 , 13,	4.5	10
120	Photocatalytic degradation of environmental pollutant using nickel and cerium ions substituted Co _{0.6} Zn _{0.4} Fe ₂ O ₄ nanoferrites. <i>Earth Systems and Environment</i> , 2021 , 5, 399	7.5	10
119	High interfacial charge carrier separation in Fe ₃ O ₄ modified SrTiO ₃ /Bi ₄ O ₅ I ₂ robust magnetic nano-heterojunction for rapid photodegradation of diclofenac under simulated solar-light. <i>Journal of Cleaner Production</i> , 2021 , 315, 128137	10.3	10
118	Fabrication of lanthanum linked trimesic acid as porous metal organic frameworks for effective nitrate and phosphate adsorption. <i>Journal of Solid State Chemistry</i> , 2021 , 302, 122446	3.3	10
117	NiO@CuO@Cu bilayered electrode: two-step electrochemical synthesis supercapacitor properties. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 2609-2614	2.6	9
116	Recent Updates on Heavy Metal Remediation Using Date Stones (Phoenix dactylifera L.) [Date Fruit Processing Industry Waste. <i>Sustainable Agriculture Reviews</i> , 2019 , 193-206	1.3	9
115	Morphology-inspired low-temperature liquefied petroleum gas sensors of indium oxide. <i>Scripta Materialia</i> , 2015 , 107, 54-58	5.6	9
114	Synthesis and characterisation of poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) (PEDOT:PSS) Zr(IV) monothiophosphate composite cation exchanger: analytical application as lead ion selective membrane electrode. <i>International Journal of Environmental Analytical Chemistry</i> , 2015 , 95, 312-323	1.8	9
113	Fabrication of a silver nano powder embedded kraton polymer actuator and its characterization. <i>RSC Advances</i> , 2015 , 5, 91564-91573	3.7	9
112	Ion exchangers as adsorbents for removing metals from aquatic media. <i>Archives of Environmental Contamination and Toxicology</i> , 2014 , 66, 259-69	3.2	9
111	Synthesis, characterization and photolytic degradation activity of poly-o-toluidineThorium(IV)molybdophosphate cation exchanger: Analytical application in metal ion treatment. <i>Desalination</i> , 2015 , 361, 1-12	10.3	9
110	Forward ion-exchange kinetics of heavy metal ions on the surface of carboxymethyl cellulose Sn(IV) phosphate composite nano-rod-like cation exchanger. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 110, 715-723	4.1	9
109	A Comparative Study on Characterization of Aluminium Tungstate and Surfactant-Based Aluminium Tungstate Cation-Exchangers: Analytical Applications for the Separation of Toxic Metal Ions. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2012 , 22, 352-359	3.2	9
108	Application of Zr(IV) tungstate for removal of metal ions from aqueous solutions. <i>Toxicological and Environmental Chemistry</i> , 2012 , 94, 468-481	1.4	9
107	Sustainable green nanoadsorbents for remediation of pharmaceuticals from water and wastewater: A critical review. <i>Environmental Research</i> , 2022 , 204, 112243	7.9	9
106	Birnessite-type manganese dioxide nanoparticles embedded with nitrogen-doped carbon for high-performance supercapacitor. <i>Journal of Energy Storage</i> , 2020 , 32, 101952	7.8	9
105	Facile fabrication of tunable porous zirconium fumarate based metal organic frameworks in the retention of nutrients from water. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 2856-2870	4.2	9
104	Controlled synthesis of porous Zn/Fe based layered double hydroxides: Synthesis mechanism, and ciprofloxacin adsorption. <i>Separation and Purification Technology</i> , 2022 , 278, 119481	8.3	9

103	Mechanical and damage tolerance behavior of short sisal fiber reinforced recycled polypropylene biocomposites. <i>Journal of Composite Materials</i> , 2017 , 51, 1087-1097	2.7	8
102	Fabrication of Highly Porous Polymeric Nanocomposite for the Removal of Radioactive U(VI) and Eu(III) Ions from Aqueous Solution. <i>Polymers</i> , 2020 , 12,	4.5	8
101	Kinetic Model for pH Variation Resulted from Interaction of Aqueous Solution Contaminated with Nickel Ions and Cement Kiln Dust. <i>Journal of Chemistry</i> , 2020 , 2020, 1-11	2.3	8
100	Fabrication of highly porous N/S doped carbon embedded with CuO/CuS nanoparticles for NH ₃ gas sensing. <i>Materials Letters</i> , 2020 , 268, 127515	3.3	8
99	Quantitative analysis of bromate in non-alcoholic beer using ultra performance liquid chromatography-electrospray ionization mass spectrometry. <i>Analytical Methods</i> , 2014 , 6, 4038	3.2	8
98	Presence of heterocyclic amine carcinogens in home-cooked and fast-food camel meat burgers commonly consumed in Saudi Arabia. <i>Scientific Reports</i> , 2017 , 7, 1707	4.9	8
97	Ion-selective potentiometric determination of Pb(II) ions using PVC-based carboxymethyl cellulose Sn(IV) phosphate composite membrane electrode. <i>Desalination and Water Treatment</i> , 2015 , 56, 806-813		8
96	SIMULTANEOUS ANALYSIS OF VITAMIN C AND ASPIRIN IN ASPIRIN C EFFERVESCENT TABLETS BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY WITH DIODE ARRAY DETECTOR. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2012 , 35, 2454-2461	1.3	8
95	Adsorptive removal of Pb(II) metal from aqueous medium using biogenically synthesized and magnetically recoverable core-shell structured AM@Cu/Fe ₃ O ₄ nanocomposite. <i>Journal of King Saud University - Science</i> , 2020 , 32, 3351-3358		8
94	Self-nitrogen doped carbons aerogel derived from waste cigarette butts (cellulose acetate) for the adsorption of BPA: Kinetics and adsorption mechanisms. <i>Journal of King Saud University - Science</i> , 2020 , 32, 3351-3358	3.6	8
93	An environmental approach for the photodegradation of toxic pollutants from wastewater using silver nanoparticles decorated titania-reduced graphene oxide. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105622	6.8	8
92	Design and synthesis of amine functionalized graphene oxide for enhanced fluoride removal. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105384	6.8	8
91	Emerging remediation potentiality of struvite developed from municipal wastewater for the treatment of acid mine drainage. <i>Environmental Research</i> , 2022 , 210, 112944	7.9	8
90	Current Role of Nanomaterials in Environmental Remediation. <i>Environmental Chemistry for A Sustainable World</i> , 2019 , 1-20	0.8	7
89	Potentiometric determination of Cd(II) ions using PVC-based polyaniline Sn(IV) silicate composite cation-exchanger ion-selective membrane electrode. <i>Desalination and Water Treatment</i> , 2015 , 55, 463-470		7
88	Polyaniline/basic oxygen furnace slag nanocomposite as a viable adsorbent for the sorption of fluoride from aqueous medium: equilibrium, thermodynamic and kinetic study. <i>Desalination and Water Treatment</i> , 2015 , 54, 450-463		7
87	Monitoring of acrylamide carcinogen in selected heat-treated foods from Saudi Arabia. <i>Food Science and Biotechnology</i> , 2018 , 27, 1209-1217	3	7
86	Miscibility enhancement of poly(vinyl chloride)/polystyrene blend: Application to membrane separation of benzene from benzene/cyclohexane mixture by pervaporation. <i>Separation Science and Technology</i> , 2016 , 51, 2440-2454	2.5	7

85	THERMAL DECOMPOSITION AND KINETIC STUDIES OF TANNIC ACID USING MODEL FREE-METHODS. <i>Journal of the Chilean Chemical Society</i> , 2018 , 63, 3824-3828	2.5	7
84	Synthesis and Ion-Exchange Properties of Graphene Th(IV) Phosphate Composite Cation Exchanger: Its Applications in the Selective Separation of Lead Metal Ions. <i>International Journal of Environmental Research and Public Health</i> , 2017 , 14,	4.6	7
83	Recent analytical applications of nanoparticle sensitized lucigenin and luminol chemiluminescent reactions. <i>Bulletin of Materials Science</i> , 2012 , 35, 7-12	1.7	7
82	Removal of highly toxic Cd(II) metal ions from aqueous medium using magnetic nanocomposite: adsorption kinetics, isotherm and thermodynamics	181, 355-361	7
81	Fabrication of starch-salicylaldehyde based polymer nanocomposite (PNC) for the removal of pollutants from contaminated water. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 2731-2738	7.9	7
80	Development of triaminotriazine functionalized graphene oxide capped chitosan porous composite beads for nutrients remediation towards water purification. <i>International Journal of Biological Macromolecules</i> , 2021 , 170, 13-23	7.9	7
79	Design and fabrication of sulfonic acid functionalized graphene oxide for enriched fluoride adsorption. <i>Diamond and Related Materials</i> , 2021 , 117, 108446	3.5	7
78	Dye-sensitized solar cells with a naturally occurring pigment lycopene as a photosensitizer for zirconium dioxide: an experimental and theoretical study. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 11311-11316	2.1	6
77	Zirconium oxide films: deposition techniques and their applications in dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 2531-2545	2.6	6
76	Flow-injection chemiluminescence method for the determination of moxifloxacin in pharmaceutical tablets and human urine using silver nanoparticles sensitized calcein-KMnO ₄ system. <i>Bioprocess and Biosystems Engineering</i> , 2015 , 38, 1803-10	3.7	6
75	Visibly Active FeO/ZnO@PANI Magnetic Nano-photocatalyst for the Degradation of 3-Aminophenol. <i>Topics in Catalysis</i> , 2020 , 63, 1302-1313	2.3	6
74	ZnO-based heterostructures as photocatalysts for hydrogen generation and depollution: a review. <i>Environmental Chemistry Letters</i> , 2022 , 20, 1047	13.3	6
73	Polyvinyl Alcohol Polymer Functionalized Graphene Oxide Decorated with Gadolinium Oxide for Sequestration of Radionuclides from Aqueous Medium: Characterization, Mechanism, and Environmental Feasibility Studies. <i>Polymers</i> , 2021 , 13,	4.5	6
72	Cement kiln dust-sand permeable reactive barrier for remediation of groundwater contaminated with dissolved benzene. <i>Separation Science and Technology</i> , 2021 , 56, 870-883	2.5	6
71	Green synthesis for novel sorbent of sand coated with (Ca/Al)-layered double hydroxide for the removal of toxic dye from aqueous environment. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105342	6.8	6
70	Comparative and Equilibrium Studies on Anionic and Cationic Dyes Removal by Nano-Alumina-Doped Catechol Formaldehyde Composite. <i>Journal of Chemistry</i> , 2020 , 2020, 1-15	2.3	5
69	Electrical and Optical Properties of Synthesized Composite Material Polyaniline-Ti(IV) Arsenophosphate. <i>Asian Journal of Chemistry</i> , 2015 , 27, 1121-1124	0.4	5
68	Biosynthesis of silver nanoparticles by using Ganoderma-mushroom extract. <i>Modern Physics Letters B</i> , 2015 , 29, 1540047	1.6	5

67	Design and synthesis of amine grafted graphene oxide encapsulated chitosan hybrid beads for defluoridation of water. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 1843-1851	7.9	5
66	Low temperature processed titanium oxide thin-film using scalable wire-bar coating. <i>Materials Research Express</i> , 2019 , 6, 126427	1.7	5
65	Green approach and strategies for wastewater treatment using bioelectrochemical systems: A critical review of fundamental concepts, applications, mechanism, and future trends. <i>Chemosphere</i> , 2021 , 285, 131373	8.4	5
64	Rose bengal-sensitized ZrO ₂ photoanode for dye-sensitized solar cell. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 2719-2723	2.6	4
63	High current density cation-exchanged SnO ₂ /CdSe/ZnSe and SnO ₂ /CdSe/SnSe quantum-dot photoelectrochemical cells. <i>New Journal of Chemistry</i> , 2018 , 42, 9028-9036	3.6	4
62	Studies on facile synthesis of polyaniline/cadmium sulfide composites and their morphology. <i>High Performance Polymers</i> , 2014 , 26, 660-665	1.6	4
61	Inorganic Nanoparticles and Nanomaterials Based on Titanium (Ti): Applications in Medicine. <i>Materials Science Forum</i> , 2013 , 754, 21-87	0.4	4
60	Facile and promising method for michael addition of indole and pyrrole to electron-deficient trans-Ehitroolefins catalyzed by a hydrogen bond donor catalyst Feist® acid and preliminary study of antimicrobial activity. <i>Scientific World Journal, The</i> , 2014 , 2014, 649197	2.2	4
59	Green Solvents in Thin-Layer Chromatography 2012 , 331-361		4
58	Ion Exchange Materials and Environmental Remediation 2012 , 217-235		4
57	Organic-Inorganic Composite Material Polyaniline Ce(IV) molybdate: Thermal and Room Temperature Electrical Conductivity Measurement Studies. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2012 , 22, 379-385	3.2	4
56	A comprehensive review on the removal of noxious pollutants using carrageenan based advanced adsorbents. <i>Chemosphere</i> , 2021 , 289, 133100	8.4	4
55	Visible light-driven photocatalytic rapid degradation of organic contaminants engaging manganese dioxide-incorporated iron oxide three dimensional nanoflowers. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 2347-2347	9.3	4
54	Waste Foundry Sand as Permeable and Low Permeable Barrier for Restriction of the Propagation of Lead and Nickel Ions in Groundwater. <i>Journal of Chemistry</i> , 2020 , 2020, 1-13	2.3	4
53	Environmental Pollution Remediation via Photocatalytic Degradation of Sulfamethoxazole from Waste Water Using Sustainable Ag ₂ S/Bi ₂ S ₃ /g-C ₃ N ₄ Nano-Hybrids. <i>Earth Systems and Environment</i> , 1	7.5	4
52	Principles and Mechanisms of Green Photocatalysis. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 1-24	0.8	4
51	Photocatalytic degradation of dyes using rutile TiO ₂ synthesized by reverse micelle and low temperature methods: real-time monitoring of the degradation kinetics. <i>Journal of Molecular Liquids</i> , 2021 , 342, 117407	6	4
50	Pharmaceutical pollutant as sacrificial agent for sustainable synergistic water treatment and hydrogen production via novel Z- scheme Bi ₇ O ₉ I ₃ /B ₄ C heterojunction photocatalysts. <i>Journal of Molecular Liquids</i> , 2021 , 343, 117652	6	4

49	Fabrication of hydroxyapatite embedded cerium-organic frameworks for fluoride capture from water. <i>Journal of Molecular Liquids</i> , 2022 , 354, 118830	6	4
48	Graft Copolymerization of Acrylonitrile and Ethyl Acrylate onto Pinus Roxburghii Wood Surface Enhanced Physicochemical Properties and Antibacterial Activity. <i>Journal of Chemistry</i> , 2020 , 2020, 1-16	2.3	3
47	Application of a Liquid Biphasic Flotation (LBF) System for Protein Extraction from <i>Persicaria Tenulla</i> Leaf. <i>Processes</i> , 2020 , 8, 247	2.9	3
46	Ion Exchange Kinetics of Heavy Metal Ions on Organic/Inorganic Composite Cation Exchanger Poly-o-toluidine Zr(IV) Tungstate. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2012 , 22, 822-829	3.2	3
45	Eco-friendly synthesis of cobalt-zinc ferrites using quince extract for adsorption and catalytic applications: An approach towards environmental remediation.. <i>Chemosphere</i> , 2022 , 294, 133565	8.4	3
44	Amine-amide functionalized graphene oxide sheets as bifunctional adsorbent for the removal of polar organic pollutants.. <i>Journal of Hazardous Materials</i> , 2022 , 429, 128308	12.8	3
43	Biopolymer mixture-entrapped modified graphene oxide for sustainable treatment of heavy metal contaminated real surface water. <i>Journal of Water Process Engineering</i> , 2022 , 46, 102631	6.7	3
42	Synthesis of composite sorbent for the treatment of aqueous solutions contaminated with methylene blue dye. <i>Water Science and Technology</i> , 2020 , 81, 1494-1506	2.2	3
41	Fabrication of CoP based nanocomposite as an electrocatalyst for oxygen- and hydrogen-evolving energy conversion reactions. <i>Materials Letters</i> , 2020 , 278, 128351	3.3	3
40	Synthesis and characterization cobalt phosphate embedded with N doped carbon for water splitting ORR and OER. <i>Journal of King Saud University - Science</i> , 2020 , 32, 2826-2830	3.6	3
39	Fabrication of magnetic nanoparticles supported ionic liquid catalyst for transesterification of vegetable oil to produce biodiesel. <i>Journal of Molecular Liquids</i> , 2021 , 330, 115648	6	3
38	Synthesis and Characterization of Poly(urethane-ether azomethine) Fatty Amide Based Corrosion Resistant Coatings from <i>Pongamia glabra</i> Oil: An Eco-Friendly Approach. <i>Journal of Chemistry</i> , 2016 , 2016, 1-10	2.3	3
37	Electrochemical study of single wall carbon nanotubes/graphene/ferritin composite for biofuel cell applications. <i>Russian Journal of Electrochemistry</i> , 2016 , 52, 245-250	1.2	3
36	Smart polymeric composite membranes for wastewater treatment 2021 , 313-350		3
35	Chemical analysis of low carbon content coals and their applications as dye adsorbent. <i>Chemosphere</i> , 2022 , 287, 132286	8.4	3
34	Activated Carbon as Superadsorbent and Sustainable Material for Diverse Applications. <i>Adsorption Science and Technology</i> , 2022 , 2022, 1-21	3.6	3
33	Fabrication and Characterization of Xanthan Gum-cl-poly(acrylamide-co-alginate acid) Hydrogel for Adsorption of Cadmium Ions from Aqueous Medium.. <i>Gels</i> , 2021 , 8,	4.2	3
32	Development and characterization of hydroxyapatite layered lanthanum organic frameworks by template method for defluoridation of water.. <i>Journal of Colloid and Interface Science</i> , 2022 , 622, 228-238	8.3	3

31	Bismuth sulphide sensitized tin oxide photoelectrode for solar cell application. <i>Indian Journal of Physics</i> , 2016 , 90, 887-893	1.4	2
30	History and Introduction of UPLC/MS 2014 , 1-16		2
29	Preparation and characterization of a new inorganic cation-exchanger: Zirconium (IV) iodasilicate: Analytical applications for metal content determination in pharmaceutical sample and synthetic mixture. <i>Desalination and Water Treatment</i> , 2010 , 16, 29-38		2
28	Ethylene Glycol as New Mobile Phase for Resolution of Two-Component Mixture of Cationic Surfactants on Alumina Surface. <i>Journal of Dispersion Science and Technology</i> , 2011 , 32, 1179-1184	1.5	2
27	Eco-friendly design of functionalized graphene oxide incorporated alginate beads for selective fluoride retention. <i>Diamond and Related Materials</i> , 2021 , 121, 108747	3.5	2
26	Metallic and bimetallic phosphides-based nanomaterials for photocatalytic hydrogen production and water detoxification: a review. <i>Environmental Chemistry Letters</i> , 1	13.3	2
25	Fabrication of Multi-functionalized Graphene Oxide Doped Alginate Hybrid Spheres for Enhanced Fluoride Adsorption. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 1	3.2	2
24	ESTIMATION OF ARSENIC(III) IN ORGANIC ARSINES AND ITS COMPLEXES USING POTASSIUM BROMATE AND POTASSIUM IODATE AS OXIDANTS. <i>Journal of the Chilean Chemical Society</i> , 2016 , 61, 2940-2948	2.5	2
23	Trimetallic@Cyclodextrin Nanocomposite: Photocatalyst for Degradation of Amoxicillin and Catalyst for Esterification Reactions. <i>Journal of Chemistry</i> , 2021 , 2021, 1-14	2.3	2
22	Synthesis, surface characterization and electrochemical properties of PVC-based cerium(IV) sulphate ion exchange composite membrane. <i>Ionics</i> , 2015 , 21, 1057-1062	2.7	1
21	Electrochemical and transport properties of polystyrene - and polyvinyl chloride-based pyridine Th(IV) phosphate composite ion-exchange membranes: a comparative study1 Now-a-days, organic/inorganic composite membranes have attracted great attention for membrane preparation because of their unique opportunity to combine the remarkable features of organic		1
20	Benzo[<i>b</i>]phenothiazine sensitized ZrO ₂ based dye sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 1034-1041 co-precipitation meth. <i>Desalination and Water Treatment</i> , 2015 , 56, 2296-2305	2.1	1
19	Precipitation of (Mg/Fe-CTAB) - Layered double hydroxide nanoparticles onto sewage sludge for producing novel sorbent to remove Congo red and methylene blue dyes from aqueous environment. <i>Chemosphere</i> , 2021 , 132693	8.4	1
18	Green Photocatalyst for Diverge Applications. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 1-18	0.8	1
17	Synthesis and characterization of CuO doped lithium magnesium borate glasses for thermoluminescence dosimetry. <i>Optik</i> , 2021 , 231, 166369	2.5	1
16	Cyano-Bridged Cu-Ni Coordination Polymer Nanoflakes and Their Thermal Conversion to Mixed Cu-Ni Oxides. <i>Nanomaterials</i> , 2018 , 8,	5.4	1
15	Modified TiO ₂ nanotubes-zeolite composite photocatalyst: Characteristics, microstructure and applicability for degrading triclorcarban. <i>Chemosphere</i> , 2022 , 287, 132278	8.4	1
14	Rationally designed and hierarchically structured functionalized aluminium organic frameworks incorporated chitosan hybrid beads for defluoridation of water.. <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	1

13	Evaluation of photocatalytic performances of PEG and PVP capped zinc sulfide nanoparticles towards organic environmental pollutant in presence of sunlight.. <i>Chemosphere</i> , 2022 , 298, 134281	8.4	1
12	Production of carbon-based adsorbents from lignocellulosic biomass 2022 , 169-192		1
11	The Physical Modeling Analysis of Fate and Transport of Silver Nanoparticles Dispersed by Water Flow. <i>Journal of Chemistry</i> , 2021 , 2021, 1-9	2.3	0
10	Ag ₂ O/Al ₂ O ₃ /ZrO ₂ Trimetallic Nanocatalyst for High Performance Photodegradation of Nicosulfuron Herbicide. <i>Topics in Catalysis</i> , 2020 , 63, 1272-1285	2.3	0
9	Superficial development of Lewis zirconium ion cross-linked gelatin/kaolin hybrid composite for nutrients remediation. <i>Journal of Molecular Liquids</i> , 2021 , 324, 114982	6	0
8	Fabrication of a Z-scheme Zn ₃ V ₂ O ₈ /g-C ₃ N ₄ nano-heterojunction with high interfacial charge transfer for superior photocatalytic removal of diazinon pesticide under visible light. <i>Applied Nanoscience (Switzerland)</i> , 1	3.3	0
7	Remediation of wastewater containing 4-nitrophenol using ionic liquid stabilized nanoparticles: Synthesis, characterizations and applications. <i>Chemosphere</i> , 2022 , 303, 135173	8.4	0
6	Preparation, Structural and Electrochemical Properties of PVC Based Magnesium Molybdate Ion-Exchange Composite Membrane for Desalination of Food Industry Waste Water. <i>Materials Science Forum</i> , 2016 , 875, 16-23	0.4	
5	Preparation of new thermoluminescent material (100%)B ₂ O ₃ :Li ₂ O: Cu ²⁺ for sensing and detection of radiation. <i>Bulletin of Materials Science</i> , 2016 , 39, 331-336	1.7	
4	Bromate Formation in Drinking Water and Its Control Using Graphene Based Materials 2019 , 239-260		
3	Functional nanomaterial in energy and environmental science 2020 , 1-23		
2	Smart polymer coatings for membrane antifouling applications 2021 , 415-450		
1	Application of smart polymers in nanomedicine 2021 , 215-233		