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Adsorption of dyes and heavy metal ions by chitosan composites: A review

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1570	Removal of Indigo Carmine and Pb(II) Ion from Aqueous Solution by Polyaniline. <b>2011</b> , 50, 882-892		21
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1568	The Adsorption Behavior of Reactive Dye on Magnetic Chitosan Coated Cotton Fibers. <b>2011</b> , 396-398, 2198-2201		
1567	Binding of heavy metal contaminants onto chitosans--an evaluation for remediation of metal contaminated soil and water. <b>2011</b> , 92, 2675-82		34
1566	Adsorption of Crystal Violet from aqueous solution onto NaOH-modified rice husk. <i>Carbohydrate Polymers</i> , <b>2011</b> , 86, 1533-1541	10.3	370
1565	Removal of copper(II) from aqueous solution in fixed-bed column by carboxylic acid functionalized deacetylated konjac glucomannan. <i>Carbohydrate Polymers</i> , <b>2011</b> , 86, 753-759	10.3	18
1564	Adsorption of Two Heavy Metal Ions on Dry Garlic Stem. <b>2011</b> , 396-398, 2443-2446		1
1563	Study on Magnetic Chitosan Microparticles for Rapid Removal of Heavy Metals. <b>2012</b> , 518-523, 2844-2848		2
1562	Adsorption of Fe(II) ions from aqueous phase by chitosan adsorbent: equilibrium, kinetic, and thermodynamic studies. <b>2012</b> , 50, 348-359		41
1561	Fish ( <i>Labeo rohita</i> ) Scales as Potential Low-Cost Biosorbent for Removal of Malachite Green from Aqueous Solutions. <b>2012</b> , 16, 235-242		18
1560	Efficient Adsorption and Recovery of Pb(II) from Aqueous Solution by a Granular pH-Sensitive Chitosan-based Semi-IPN Hydrogel. <b>2012</b> , 49, 971-979		20
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1558	Evaluation of Glass Beads Coated with Chitosan for the Adsorption of Copper(II) Ions from Aqueous Solution. <b>2012</b> , 30, 227-240		7
1557	Enhancement of Fibroblast Adhesion and Proliferation on <i>A.oryzae</i> Treated Chitosan Film. <b>2012</b> , 69, 149-153		1
1556	Quantum dot impregnated-chitosan film for heavy metal ion sensing and removal. <b>2012</b> , 28, 15687-96		82
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1551	Fabrication and mechanical properties of chitosan composite membrane containing hydroxyapatite particles. <b>2012</b> , 1, 66-71		22
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1399	Fabrication of Metal Oxide/Polymer Hybrid Nanocomposites. <b>2014</b> , 249-281		8
1398	Swelling, diffusion, network parameters and adsorption properties of IPN hydrogel of chitosan and acrylic copolymer. <b>2014</b> , 44, 132-43		50
1397	Sepiolite Fiber Oriented-Polypyrrole Nanofibers for Efficient Chromium(VI) Removal from Aqueous Solution. <b>2014</b> , 59, 2275-2282		32
1396	Chitosan modified magnetic nanoparticles based solid phase extraction combined with ICP-OES for the speciation of Cr(III) and Cr(VI). <b>2014</b> , 6, 8577-8583		47
1395	Polyaniline-decorated cellulose aerogel nanocomposite with strong interfacial adhesion and enhanced photocatalytic activity. <b>2014</b> , 4, 8966		67
1394	Adsorption of nickel ions from seawater by modified chitosan. <b>2014</b> , 52, 5663-5672		9
1393	Facile fabrication of magnetic chitosan beads of fast kinetics and high capacity for copper removal. <b>2014</b> , 6, 3421-6		122
1392	Application of chitosan and its derivatives as adsorbents for dye removal from water and wastewater: a review. <i>Carbohydrate Polymers</i> , <b>2014</b> , 113, 115-30	10.3	692

1391	Rapid and Efficient Removal of Cationic Dyes by Magnetic Chitosan Adsorbent Modified with EDTA. <b>2014</b> , 49, 2049-2059	14
1390	Overview of Chitin and Chitosan Research. <b>2014</b> , 1-19	2
1389	Chitosan-nanosilica hybrid materials: Preparation and properties. <b>2014</b> , 320, 563-569	26
1388	Studies on the sorption capacity for Pb(II) and Hg(II) of citralidene chitosan. <b>2014</b> , 71, 1919-1932	9
1387	Polyhydroxy glucose functionalized silica for the dehydration of bio-ethanol distillate. <b>2014</b> , 37, 1417-25	0
1386	Diffusive transport of Cu(II) ions through thin ion imprinted polymeric membranes. <b>2014</b> , 68,	10
1385	Characteristics of cesium ion sorption from aqueous solution on bentonite- and carbon nanotube-based composites. <b>2014</b> , 274, 46-52	81
1384	Chitosan scaffold as an alternative adsorbent for the removal of hazardous food dyes from aqueous solutions. <b>2014</b> , 424, 7-15	83
1383	Adsorption Parameters Studies for the Removal of Mercury from Aqueous Solutions Using Hybrid Sorbent. <b>2014</b> , 33, n/a-n/a	12
1382	Fabrication of chitosan/PAA multilayer onto magnetic microspheres by LbL method for removal of dyes. <b>2014</b> , 249, 79-92	50
1381	Magnetic and K <sup>+</sup> -cross-linked kappa-carrageenan nanocomposite beads and adsorption of crystal violet. <b>2014</b> , 23, 335-344	43
1380	The effect of anionic surfactant on the properties of polythiophene/chitosan composites. <b>2014</b> , 54, 2632-2640	8
1379	Efficiencies of chitosan nanoparticles and crab shell particles in europium uptake from aqueous solutions through biosorption: Synthesis and characterization. <b>2014</b> , 95, 232-240	46
1378	Micro- and nano-sized bentonite filled composite superabsorbents of chitosan and acrylic copolymer for removal of synthetic dyes from water. <b>2014</b> , 101, 510-520	52
1377	A conductive copolymer of graphene oxide/poly(1-(3-aminopropyl)pyrrole) and the adsorption of metal ions. <b>2014</b> , 5, 4466	35
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1375	Nanoporous Magnetic Cellulose-Chitosan Composite Microspheres: Preparation, Characterization, and Application for Cu(II) Adsorption. <b>2014</b> , 53, 2106-2113	120
1374	Burkholderia vietnamiensis C09V as the functional biomaterial used to remove crystal violet and Cu(II). <b>2014</b> , 105, 1-6	22

1373	Identification of cadmium-induced <i>Agaricus blazei</i> genes through suppression subtractive hybridization. <b>2014</b> , 63, 84-90	11
1372	Comparative Study of Cationic Surfactant CTAC Tailoring. <b>2014</b> , 140, 04014013	1
1371	Highly Efficient Removal of Acid Red 18 from Aqueous Solution by Magnetically Retrievable Chitosan/Carbon Nanotube: Batch Study, Isotherms, Kinetics, and Thermodynamics. <b>2014</b> , 59, 39-51	93
1370	Study of adsorption of cationic dye on magnetic kappa-carrageenan/PVA nanocomposite hydrogels. <b>2014</b> , 2, 1578-1587	97
1369	Synthesis and characterization of crosslinked chitosan immobilized on bentonite and its grafted products with polyaniline. <b>2014</b> , 131, n/a-n/a	9
1368	Chitosan-coated <i>Lentinus polychrous</i> L.: Integrated biosorption and biodegradation systems for decolorization of anionic reactive dyes. <b>2014</b> , 93, 168-176	25
1367	Chitosan as a Biomaterial. <b>2014</b> , 91-113	44
1366	Cryogels for Affinity Chromatography. <b>2014</b> , 62-91	
1365	Particulate/Cell Separations Using Macroporous Monolithic Matrices. <b>2014</b> , 92-111	
1364	Gum-Polysaccharide-Based Nanocomposites for the Treatment of Industrial Effluents. <b>2014</b> , 37-60	1
1363	Molecularly Imprinted Polymers for Water Polishing. <b>2014</b> , 218-231	
1362	Simultaneous adsorption of aniline and Cr(VI) ion by activated carbon/chitosan composite. <b>2014</b> , 131, n/a-n/a	21
1361	Investigation of interaction between U(VI) and carbonaceous nanofibers by batch experiments and modeling study. <b>2015</b> , 460, 237-46	78
1360	Novel Carbon-Based Nanoadsorbents for Removal of Synthetic Textile Dyes from Wastewaters. <b>2015</b> , 35-82	2
1359	Control of Crystallization of Poly(Lactic Acid) Membranes. <b>2015</b> , 102-129	
1358	Advanced Composite Adsorbents: Chitosan versus Graphene. <b>2015</b> , 463-492	1
1357	Facile preparation of EDTA-functionalized chitosan magnetic adsorbent for removal of Pb(II). <b>2015</b> , 132, n/a-n/a	15
1356	Preparation of chitosan-modified silica nanoparticles and their applications in the separation of auxins by capillary electrophoresis. <b>2015</b> , 38, 3976-3982	15

1355	Mn <sup>2+</sup> and Co <sup>2+</sup> Removal from Dilute Solution Using Cysteine Grafted Cobalt/Manganese Imprinted Crosslinked Chitosan. <b>2015</b> , 751, 44-50	2
1354	Effect of Physicochemical Parameters on Methylene Blue Adsorption by Sulfuric Acid Treated Spent Grated Coconut. <b>2015</b> , 752-753, 71-76	
1353	Solubility of Bioactive, Inorganic and Polymeric Solids in Ionic Liquids [Experimental and Prediction Perspectives. <b>2015</b> ,	1
1352	Convenient Synthesis of Micron-sized Macro Porous Polymers with Silica on their Surfaces and Excellent Adsorption Performance for Pb(II) Ion. <b>2015</b> , 05,	
1351	Preparation of Fully Deacetylated Chitosan for Adsorption of Hg(II) Ion from Aqueous Solution. <b>2015</b> , 6,	1
1350	Chitosan as a Natural Polymer for Heterogeneous Catalysts Support: A Short Review on Its Applications. <b>2015</b> , 5, 1272-1283	75
1349	Chitosan in Molecularly-Imprinted Polymers: Current and Future Prospects. <b>2015</b> , 16, 18328-47	69
1348	Chitosanases from Family 46 of Glycoside Hydrolases: From Proteins to Phenotypes. <b>2015</b> , 13, 6566-87	53
1347	Fabrication and characterization of core-shell magnetic chitosan nanoparticles as a novel carrier for immobilization of Burkholderia cepacia lipase. <b>2015</b> , 64, 423-30	26
1346	Toward bioderived intelligent nanocarriers for controlled pollutant recovery and pH-sensitive binding. <b>2015</b> , 7, 6139-45	33
1345	Synthesis, characterization, and application of nano hydroxyapatite and nanocomposite of hydroxyapatite with granular activated carbon for the removal of Pb <sup>2+</sup> from aqueous solutions. <b>2015</b> , 351, 95-103	68
1344	The performance of chitosan/montmorillonite nanocomposite during the flocculation and floc storage processes of Microcystis aeruginosa cells. <b>2015</b> , 22, 11148-61	15
1343	Determination of the Heavy Metal Levels in Panax notoginseng and the Implications for Human Health Risk Assessment. <b>2015</b> , 21, 1218-1229	12
1342	Adsorption of Cd(II), Cu(II) and Ni(II) ions by cross-linking chitosan/rectorite nano-hybrid composite microspheres. <i>Carbohydrate Polymers</i> , <b>2015</b> , 130, 333-43	10.3 122
1341	Adsorption of Ni(II) ion on Ni(II) ion-imprinted magnetic chitosan/poly(vinyl alcohol) composite. <b>2015</b> , 293, 2497-2506	28
1340	Acid/base bifunctional carbonaceous nanomaterial with large surface area: Preparation, characterization, and adsorption properties for cationic and anionic compounds. <b>2015</b> , 162, 149-161	11
1339	Fabrication of novel magnetic nanocomposite with a number of adsorption sites for the removal of dye. <b>2015</b> , 78, 17-22	18
1338	Preparation of chitosan-graft-polyacrylamide magnetic composite microspheres for enhanced selective removal of mercury ions from water. <b>2015</b> , 455, 261-70	84

1337	Environmental applications of chitosan and its derivatives. <b>2015</b> , 233, 1-43	44
1336	In situ reduction and stabilization of Ag NPs onto magnetic composites for rapid hydrogenation catalysis. <b>2015</b> , 75, 680-692	5
1335	Recent modifications of chitosan for adsorption applications: a critical and systematic review. <b>2015</b> , 13, 312-37	292
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1333	Preparation of chitosan fibers using aqueous ionic liquid as the solvent. <b>2015</b> , 16, 2704-2708	11
1332	Chitosan coated magnetic nanoparticles as nano-adsorbent for efficient removal of mercury contents from industrial aqueous and oily samples. <b>2015</b> , 27, 79-87	87
1331	Adsorption of chromium from aqueous solutions using crosslinked chitosan-diethylenetriaminepentaacetic acid. <b>2015</b> , 74, 458-66	51
1330	Spectroscopic characterization for remediation of copper, cadmium and mercury using modified palm shell powder. <b>2015</b> , 46, 191-199	10
1329	Advanced physico-chemical characterization of chitosan by means of TGA coupled on-line with FTIR and GCMS: Thermal degradation and water adsorption capacity. <b>2015</b> , 112, 1-9	243
1328	Binding of Zn(II) ions to chitosan/PVA blend in aqueous environment: Adsorption kinetics and equilibrium studies. <b>2015</b> , 34, 15-22	53
1327	Application of cross-linked porous chitosan films for Congo red adsorption from aqueous solution. <b>2015</b> , 53, 1970-1976	9
1326	Enhanced separation of toxic Blue BG dye by cloud point extraction with IL as an additive: Effect of parameters, solubilization isotherm and evaluation of thermodynamics and design parameters. <b>2015</b> , 3, 1365-1371	5
1325	Synthesis of ethylenediamine modified chitosan microspheres for removal of divalent and hexavalent ions. <b>2015</b> , 75, 179-85	33
1324	Response surface methodology for the optimization of lanthanum removal from an aqueous solution using a Fe <sub>3</sub> O <sub>4</sub> /chitosan nanocomposite. <b>2015</b> , 195, 20-29	30
1323	Heavy metal (Cd <sup>2+</sup> , Ni <sup>2+</sup> , Pb <sup>2+</sup> and Ni <sup>2+</sup> ) adsorption in aqueous solutions by oxidized starches. <b>2015</b> , 26, 147-152	24
1322	Effective removal of As (III) from drinking water samples by chitosan-coated magnetic nanoparticles. <b>2015</b> , 56, 2092-2104	15
1321	Adsorption characteristics of reactive black 5 onto chitosan-intercalated montmorillonite. <b>2015</b> , 53, 2962-2969	23
1320	Ethyl acrylate grafted chitosan for heavy metal removal from wastewater: Equilibrium, kinetic and thermodynamic studies. <b>2015</b> , 51, 127-134	63

1319	Modeling of Arsenic (III) Removal by Evolutionary Genetic Programming and Least Square Support Vector Machine Models. <b>2015</b> , 2, 145-172	16
1318	Preparation and properties of ion-imprinted hollow particles for the selective adsorption of silver ions. <b>2015</b> , 31, 1376-84	58
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1316	Adsorption of uranium by amidoximated chitosan-grafted polyacrylonitrile, using response surface methodology. <i>Carbohydrate Polymers</i> , <b>2015</b> , 121, 79-85	10.3 90
1315	Chitosan-Zinc Oxide Nanoparticles Combined with Dispersive Liquid-Liquid Microextraction for the Determination of BTEX in Water Samples. <b>2015</b> , 68, 481	5
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1313	Novel polyamidoamine dendrimer-functionalized palygorskite adsorbents with high adsorption capacity for Pb <sup>2+</sup> and reactive dyes. <b>2015</b> , 107, 220-229	55
1312	TiO <sub>2</sub> immobilized zein microspheres: a biocompatible adsorbent for effective dye decolourisation. <b>2015</b> , 5, 26475-26481	13
1311	Quaternised chitosan in conjunction with ultrafiltration membranes to remove arsenate and chromate ions. <b>2015</b> , 72, 1365-1377	11
1310	Nano-composite of silk fibroin-chitosan/Nano ZrO <sub>2</sub> for tissue engineering applications: fabrication and morphology. <b>2015</b> , 76, 292-302	50
1309	An irreversible ripeness indicator to monitor the CO <sub>2</sub> concentration in the headspace of packaged kimchi during storage. <b>2015</b> , 24, 91-97	27
1308	Enhanced Adsorptive Removal of Methylene Blue from Aqueous Solution by Alkali-Activated Palygorskite. <b>2015</b> , 226, 1	36
1307	Silver Adsorption Enhancement from Aqueous and Photographic Waste Solutions by Mercerized Coconut Fiber. <b>2015</b> , 50, 937-946	14
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1304	Removal of phosphate anions using the modified chitosan beads: Adsorption kinetic, isotherm and mechanism studies. <b>2015</b> , 277, 112-119	225
1303	Advances in polymeric membranes for water treatment. <b>2015</b> , 3-41	17
1302	Adsorption of C.I. Natural Red 4 onto Spongin Skeleton of Marine Demosponge. <b>2014</b> , 8, 96-116	29



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1300	Application of chitosan and its N-heterocyclic derivatives for preconcentration of noble metal ions and their determination using atomic absorption spectrometry. <i>Carbohydrate Polymers</i> , <b>2015</b> , 134, 680-6 <sup>10.3</sup>		19
1299	Simultaneous visual detection and removal of lead(II) ions with pyromellitic dianhydride-grafted cellulose nanofibrous membranes. <b>2015</b> , 3, 18180-18189		66
1298	Adsorptive removal of Pb(II) ions from polluted water by newly synthesized chitosan/polyacrylonitrile blend: Equilibrium, kinetic, mechanism and thermodynamic approach. <b>2015</b> , 98, 187-197		63
1297	Improving the hydrogen peroxide bleaching efficiency of aspen chemithermomechanical pulp by using chitosan. <i>Carbohydrate Polymers</i> , <b>2015</b> , 132, 430-6	10.3	12
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1295	Synergistic behaviour of ionic liquid impregnated sulphate-crosslinked chitosan towards adsorption of Cr(VI). <b>2015</b> , 80, 615-26		29
1294	Carrageenan-grafted magnetite nanoparticles as recyclable sorbents for dye removal. <b>2015</b> , 17, 1		18
1293	Synthesis of zirconium, hafnium and their ternary borides by a polymer complex route. <b>2015</b> , 76, 686-692		3
1292	Self-wrapped Sb/C nanocomposite as anode material for High-performance sodium-ion batteries. <b>2015</b> , 16, 479-487		124
1291	Sonochemical synthesis of cyclophosphazene bridged mesoporous organosilicas and their application in methyl orange, congo red and Cr(VI) removal. <b>2015</b> , 5, 67690-67699		29
1290	Structural evolution of chitosan/palygorskite composites and removal of aqueous lead by composite beads. <b>2015</b> , 353, 363-375		61
1289	Adsorption Characteristics of Mercury(II) Ions from Aqueous Solution onto Chitosan-Coated Diatomite. <b>2015</b> , 54, 7524-7533		67
1288	Fixed bed adsorption of Methylene Blue by ultrasonic surface modified chitin supported on sand. <b>2015</b> , 100, 302-310		27
1287	A small molecular fluorescent sensor functionalized silica microsphere for detection and removal of mercury, cadmium, and lead ions in aqueous solutions. <b>2015</b> , 220, 762-771		53
1286	Combination of carboxymethyl chitosan-coated magnetic nanoparticles and chitosan-citrate complex gel beads as a novel magnetic adsorbent. <i>Carbohydrate Polymers</i> , <b>2015</b> , 131, 255-63	10.3	67
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1281	Characterization and structure of the polysaccharide produced by <i>Pseudomonas fluorescens</i> strain TF7 isolated from an arid region of Algeria. <b>2015</b> , 338, 335-42	5
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1275	Adsorption of reactive yellow 145 onto chitosan in aqueous solution: kinetic modeling and thermodynamic analysis. <b>2015</b> , 72, 1879-1897	14
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1272	Genipin-cross-linked chitosan-based hydrogels: Reaction kinetics and structure-related characteristics. <b>2015</b> , 132, n/a-n/a	63
1271	Acid mine drainage (AMD) treatment: Neutralization and toxic elements removal with unmodified and modified limestone. <b>2015</b> , 81, 30-40	69
1270	Molecular and Surface Interactions between Polymer Flocculant Chitosan-g-polyacrylamide and Kaolinite Particles: Impact of Salinity. <b>2015</b> , 119, 7327-7339	52
1269	Application of biopolymer composites in arsenic removal from aqueous medium: A reviewPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. <b>2015</b> , 8, 255-263	48
1268	Sorption of heavy metal ions onto carboxylate chitosan derivatives--a mini-review. <b>2015</b> , 116, 113-20	109
1267	Potential of functionalized SBA-15 mesoporous materials for decontamination of water solutions from Cr(VI), As(V) and Hg(II) ions. <b>2015</b> , 3, 986-995	60
1266	A Review on Chitin and Chitosan Polymers: Structure, Chemistry, Solubility, Derivatives, and Applications. <b>2015</b> , 2, 204-226	462

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1263	One-step synthesis of magnetic chitosan polymer composite films. <b>2015</b> , 345, 175-181	50
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1257	Fractionation of carboxylate anions from aqueous solution using chitosan cross-linked sorbent materials. <b>2015</b> , 5, 82065-82077	36
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1255	Adsorption studies of Malachite green on 5-sulphosalicylic acid doped tetraethoxysilane (SATEOS) composite material. <b>2015</b> , 5, 92788-92798	8
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1253	Interaction of chitosan beads with a copper/nitrofurantoin metallodrug. <b>2015</b> , 5, 90184-90192	3
1252	Cobalt(III) acetylacetonate initiated RAFT polymerization of acrylonitrile and its application in removal of methyl orange after electrospinning. <b>2015</b> , 5, 58393-58402	7
1251	Investigation of microstructured chitosans by coherent anti-Stokes Raman microscopy. <b>2015</b> , 257, 217-25	0
1250	Simultaneous Adsorption of Heavy Metal and Organic Pollutant onto Citrate-Modified Layered Double Hydroxides with Dodecylbenzenesulfonate. <b>2015</b> , 32, 666-675	16
1249	Environmental Implications of Recycling and Recycled Products. <b>2015</b> ,	3
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1247	Adsorption behaviour of congo red by cellulose/chitosan hydrogel beads regenerated from ionic liquid. <b>2015</b> , 1-11	8
1246	Cyanoguanidine-crosslinked chitosan to adsorption of food dyes in the aqueous binary system. <b>2015</b> , 211, 425-430	29
1245	Facile and efficient recovery of mercury based on poly(amine-ester)-bearing metal-complexation and acidic aqueous solution-soluble groups. <b>2015</b> , 47, 761-766	
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1243	Chitosan Derivatives as Effective Agents in Recycling of Textile Dyes from Waste Waters. <b>2015</b> , 135-148	1
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1241	Adsorption Behavior of Cu(II) Ions on Crosslinked Chitosan/Polyvinyl Alcohol Ion Imprinted Membrane. <b>2015</b> , 36, 190-195	16
1240	Adsorption of Zinc and Lead Ions from Aqueous Solutions Using Chitosan/Polyvinyl Alcohol Membrane Incorporated via Acid-Functionalized Carbon Nanotubes. <b>2015</b> , 36, 1793-1798	22
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1238	Comparative study of waste derived adsorbents for sequestering methylene blue from aquatic environment. <b>2015</b> , 3, 395-404	14
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1236	Preparation and characterisation of biodegradable pollen-chitosan microcapsules and its application in heavy metal removal. <b>2015</b> , 177, 1-7	66
1235	Adsorption kinetics of a cationic dye from wastewater. <b>2015</b> , 53, 3623-3631	6
1234	Fabrication of chitosan/PDMCHEA blend positively charged membranes with improved mechanical properties and high nanofiltration performances. <b>2015</b> , 357, 8-15	43
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1231	Analysis of synergistic and antagonistic adsorption of heavy metals and acid blue 25 on activated carbon from ternary systems. <b>2015</b> , 93, 755-772	44
1230	In-situ improved phenol adsorption at ions-enrichment interface of porous adsorbent for simultaneous removal of copper ions and phenol. <b>2015</b> , 262, 571-578	36

1229	Fabrication of porous zeolite/chitosan monoliths and their applications for drug release and metal ions adsorption. <i>Carbohydrate Polymers</i> , <b>2015</b> , 117, 657-665	10.3	53
1228	Magnetic modification of acid-activated kaolin: Synthesis, characterization, and adsorptive properties. <b>2015</b> , 202, 1-7		35
1227	Evaluation of thermally crosslinkable chitosan-based nanofibrous mats for the removal of metal ions. <i>Carbohydrate Polymers</i> , <b>2015</b> , 116, 249-54	10.3	28
1226	Adsorption of Methylene Blue from Aqueous Solution by Crosslinked Chitosan/Bentonite Composite. <b>2015</b> , 36, 61-67		75
1225	Fast and Efficient Uptake of Fe(III) from Aqueous Solutions Using Magnetic Functionalized Cellulose. <b>2015</b> , 36, 898-907		2
1224	Preparation and characterization of a novel chitosan/Al <sub>2</sub> O <sub>3</sub> /magnetite nanoparticles composite adsorbent for kinetic, thermodynamic and isotherm studies of Methyl Orange adsorption. <b>2015</b> , 259, 1-10		344
1223	New physicochemical interpretations for the adsorption of food dyes on chitosan films using statistical physics treatment. <b>2015</b> , 171, 1-7		54
1222	Polyethylenimine-functionalized poly(vinyl alcohol) magnetic microspheres as a novel adsorbent for rapid removal of Cr(VI) from aqueous solution. <b>2015</b> , 262, 101-108		77
1221	Modified chitosan for the collection of reactive blue 4, arsenic and mercury from aqueous media. <i>Carbohydrate Polymers</i> , <b>2015</b> , 117, 123-132	10.3	21
1220	Organic dyes removal using magnetically modified rye straw. <b>2015</b> , 380, 181-185		36
1219	Adsorption of dyes in aqueous solutions by chitosan/halloysite nanotubes composite hydrogel beads. <b>2015</b> , 201, 190-201		169
1218	Pre-irradiation grafting of acrylonitrile onto chitin for adsorption of arsenic in water. <b>2015</b> , 106, 235-241		28
1217	Synthesis and adsorption application of succinyl-grafted chitosan for the simultaneous removal of zinc and cationic dye from binary hazardous mixtures. <b>2015</b> , 259, 438-448		227
1216	Equilibrium, kinetics and thermodynamic parameters for adsorptive removal of dye Basic Blue 9 by ground nut shells and Eichhornia. <b>2016</b> , 9, S1464-S1477		15
1215	Novel Improvements in Thermal and Hydrophobic Properties of Chitosan Reinforced by Rice Husk Ash. <b>2016</b> , 7, 115-133		2
1214	FORMULATION OF HYBRID MEMBRANE LAYER BY USING PVA/CHITOSAN BLENDED POLYMERS ON POROUS POLYSULFONE SUPPORT, AND THE APPLICATION ON COPPER ION REMOVAL. <b>2016</b> , 78,		1
1213	Synthesis and Characterization of Glutamic-Chitosan Hydrogel for Copper and Nickel Removal from Wastewater. <b>2016</b> , 21,		15
1212	Bio-Based Polymers with Potential for Biodegradability. <b>2016</b> , 8,		126

1211	Malachite Green Adsorption Behavior of Polyurethane/Chitosan Composite Foam. <b>2016</b> , 35, 1-18	4
1210	A Review on Chitosan Utilization in Membrane Synthesis. <b>2016</b> , 3, 134-158	33
1209	Novel chitosan/polyurethane/anatase titania porous hybrid composite for removal of metal ions waste. <b>2016</b> , 91, 2185-2197	10
1208	Recent Progress on the Design and Applications of Polysaccharide-Based Graft Copolymer Hydrogels as Adsorbents for Wastewater Purification. <b>2016</b> , 301, 496-522	79
1207	Enhanced Removal of Pb <sup>2+</sup> , Cu <sup>2+</sup> , and Cd <sup>2+</sup> by Amino-Functionalized Magnetite/Kaolin Clay. <b>2016</b> , 55, 7344-7354	62
1206	Synergistic removal of Cu(II) and nitrazine yellow dye using an eco-friendly chitosan-montmorillonite hydrogel: Optimization by response surface methodology. <b>2016</b> , 133,	45
1205	Utilization of magnetically responsive cereal by-product for organic dye removal. <b>2016</b> , 96, 2204-14	22
1204	Preparation of Magnetic Carboxymethylchitosan Nanoparticles for Adsorption of Heavy Metal Ions. <b>2016</b> , 1, 77-83	84
1203	Synthesis and surface protection of nano zerovalent iron (NZVI) with 3-aminopropyltrimethoxysilane for water remediation of cobalt and zinc and their radioactive isotopes. <b>2016</b> , 6, 66242-66251	23
1202	Electrospun Fibrous Membranes of Modified Polystyrene and its Copolymer With Butyl Acrylate and Their Respective Adsorption Capabilities for Cationic Blue and Copper Ions. <b>2016</b> , 55, 822-838	4
1201	Heavy metal removal using hydroxypropyl cellulose and polyacrylamide gels, kinetical study. <b>2016</b> , 133, n/a-n/a	12
1200	Preparation of a porous, magnetic, quaternary chitosan salt by preadsorption and desorption for azo dye adsorption from water. <b>2016</b> , 133, n/a-n/a	
1199	The effects of manganese oxide octahedral molecular sieve chitosan microspheres on sludge bacterial community structures during sewage biological treatment. <b>2016</b> , 6, 37518	9
1198	Natural Minerals Coated by Biopolymer Chitosan: Synthesis, Physicochemical, and Adsorption Properties. <b>2016</b> , 11, 492	16
1197	Sorption of copper onto low molecular weight chitosan derivative from aqueous solution. <b>2016</b> , 129, 154-63	12
1196	Functionalized hybrid material precursor to chitosan in the efficient remediation of aqueous solutions contaminated with As(V). <b>2016</b> , 4, 1537-1544	7
1195	Recognizing removal of norfloxacin by novel magnetic molecular imprinted chitosan/Fe <sub>2</sub> O <sub>3</sub> composites: Selective adsorption mechanisms, practical application and regeneration. <b>2016</b> , 165, 92-100	50
1194	Removal of heavy metal ions in water by starch esters. <b>2016</b> , 68, 37-46	30

1193	Recent progress on synthesis, property and application of modified chitosan: An overview. <b>2016</b> , 88, 333-44		96
1192	Chitosan membrane adsorber for low concentration copper ion removal. <i>Carbohydrate Polymers</i> , <b>2016</b> , 146, 274-81	10.3	33
1191	Hybrid iron-based core-shell magnetic catalysts for fast degradation of bisphenol A in aqueous systems. <b>2016</b> , 302, 587-594		20
1190	Poly(vinyl alcohol) and chitosan blend cross-linked with bis phenol-F-diglycidyl ether: mechanical, thermal and water absorption investigation. <b>2016</b> , 4, 211-227		4
1189	Macrogel and nanogel networks based on crosslinked poly (vinyl alcohol) for adsorption of methylene blue from aqua system. <b>2016</b> , 5, 62-73		21
1188	Sorption efficiency of three novel extractant-impregnated resins containing vesuvin towards Pb(II) ion: Effect of nitrate and amine functionalization of resin backbone. <b>2016</b> , 504, 62-74		24
1187	Highly sensitive colorimetric detection of glucose and uric acid in biological fluids using chitosan-modified paper microfluidic devices. <b>2016</b> , 141, 4749-56		112
1186	Coagulation/flocculation process for dye removal using water treatment residuals: modelling through artificial neural networks. <b>2016</b> , 57, 26392-26400		49
1185	Morphological and Spectroscopic Studies of Chitin Nanowhiskers. <b>2016</b> , 1817, 1		
1184	Adsorption and photocatalytic degradation of anionic dyes on Chitosan/PVA/Na-Titanate/TiO <sub>2</sub> composites synthesized by solution casting method. <i>Carbohydrate Polymers</i> , <b>2016</b> , 149, 317-31	10.3	61
1183	Novel chitosan goethite bionanocomposite beads for arsenic remediation. <b>2016</b> , 101, 1-9		77
1182	Sonochemical assisted hydrothermal synthesis of ZnO: Cr nanoparticles loaded activated carbon for simultaneous ultrasound-assisted adsorption of ternary toxic organic dye: Derivative spectrophotometric, optimization, kinetic and isotherm study. <b>2016</b> , 32, 119-131		95
1181	Efficient adsorption of both methyl orange and chromium from their aqueous mixtures using a quaternary ammonium salt modified chitosan magnetic composite adsorbent. <b>2016</b> , 154, 310-318		133
1180	Mechanism, synthesis and modification of nano zerovalent iron in water treatment. <b>2016</b> , 8, 9962-75		73
1179	Kinetic Study of Adsorption of Pigments and Oxidation Products in the Bleaching of Rice Bran Oil. <b>2016</b> , 12, 211-219		2
1178	Polysaccharide-based nanocomplexes for co-encapsulation and controlled release of 5-Fluorouracil and Temozolomide. <b>2016</b> , 92, 276-86		18
1177	An environmental catalyst derived from biological waste materials for green synthesis of biaryls via Suzuki coupling reactions. <b>2016</b> , 420, 216-221		44
1176	Fabrication of magnetic hydroxypropyl cellulose-g-poly(acrylic acid) porous spheres via Pickering high internal phase emulsion for removal of Cu(2+) and Cd(2.). <i>Carbohydrate Polymers</i> , <b>2016</b> , 149, 242-50	10.3	42



1175	Preparation and Application of a Xanthate-Modified Thiourea Chitosan Sponge for the Removal of Pb(II) from Aqueous Solutions. <b>2016</b> , 55, 4960-4968		52
1174	Adsorption of methyl violet from aqueous solution using gum xanthan/Fe <sub>3</sub> O <sub>4</sub> based nanocomposite hydrogel. <b>2016</b> , 89, 1-11		106
1173	Rapid method for monitoring chitosan coagulation using low-field NMR relaxometry. <i>Carbohydrate Polymers</i> , <b>2016</b> , 150, 1-4	10.3	12
1172	Biosorption using chitosan thiourea polymer as an extraction and preconcentration technique for copper prior to its determination in environmental and food samples by flame atomic absorption spectrometry: Synthesis, characterization and analytical applications. <b>2016</b> , 93, 390-401		11
1171	A novel magnetic chitosan/clinoptilolite/magnetite nanocomposite for highly efficient removal of Pb(II) ions from aqueous solution. <b>2016</b> , 302, 372-383		68
1170	Graphene oxide [mesoporous] MnO <sub>2</sub> nanocomposite as a novel destructive sorbent. <b>2016</b> , 3, 2795-2806		6
1169	One-pot synthesis of MnO-chitin hybrids for effective removal of methylene blue. <b>2016</b> , 93, 350-358		34
1168	Extremophiles: Applications in Nanotechnology. <b>2016</b> ,		19
1167	Application of Nanoparticles. <b>2016</b> , 163-193		5
1166	Photocatalytic degradation of bromophenol blue in aqueous medium using chitosan conjugated magnetic nanoparticles. <b>2016</b> , 33, 2802-2807		56
1165	Electrospun H <sub>4</sub> SiW <sub>12</sub> O <sub>40</sub> /chitosan/polycaprolactam sandwich nanofibrous membrane with excellent dual-function: adsorption and photocatalysis. <b>2016</b> , 6, 96237-96244		9
1164	A comparative study on sorption of arsenate ions from water by crosslinked chitosan and crosslinked chitosan/MMT nanocomposite. <b>2016</b> , 4, 4248-4257		27
1163	One-step preparation of AIE-active dextran via formation of phenyl borate and their bioimaging application. <b>2016</b> , 304, 149-155		45
1162	Kinetic and thermodynamic evaluation of adsorption of Cu(II) by thiosemicarbazide chitosan. <b>2016</b> , 92, 910-919		70
1161	Sorption kinetics of zinc and nickel on modified chitosan. <b>2016</b> , 188, 507		10
1160	Role of nanomaterials in water treatment applications: A review. <b>2016</b> , 306, 1116-1137		762
1159	Fast removal of copper ions from aqueous solution using an eco-friendly fibrous adsorbent. <b>2016</b> , 161, 501-509		27
1158	Synthesis and characterization of poly(maleic acid)-grafted crosslinked chitosan nanomaterial with high uptake and selectivity for Hg(II) sorption. <i>Carbohydrate Polymers</i> , <b>2016</b> , 153, 246-252	10.3	54



1157	Physicochemical of microcrystalline cellulose from oil palm fronds as potential methylene blue adsorbents. <b>2016</b> , 92, 11-19		72
1156	Synthesis of nano-sized chitosan blended polyvinyl alcohol for the removal of Eosin Yellow dye from aqueous solution. <b>2016</b> , 13, 127-136		79
1155	Utilization of LDH-based materials as potential adsorbents and photocatalysts for the decontamination of dyes wastewater: a review. <b>2016</b> , 6, 79415-79436		107
1154	An Investigation of the Selective Adsorptions of Metals on Mesoporous NH <sub>2</sub> -MCM-41. <b>2016</b> , 120, 18365-18376	18	
1153	Fabrication and covalent modification of highly chelated hybrid material based on silica-bipyridine framework for efficient adsorption of heavy metals: isotherms, kinetics and thermodynamics studies. <b>2016</b> , 6, 82505-82514		27
1152	Advanced Material for Pharmaceutical Removal from Wastewater. <b>2016</b> , 179-212		7
1151	Extending Time Profile of Morphine-Induced Analgesia Using a Chitosan-Based Molecular Imprinted Polymer Nanogel. <b>2016</b> , 16, 1515-1523		9
1150	Application of nanochitosan and chitosan particles for adsorption of Zn(II) ions pollutant from aqueous solution to protect environment. <b>2016</b> , 2, 1		10
1149	Arsenic removal using nano-TiO <sub>2</sub> /chitosan/feldspar hybrid: Bio-bead development and arsenate adsorption. <b>2016</b> , 514-515		
1148	Selective removal of cationic dye from aqueous solution by low-cost adsorbent using phytic acid modified wheat straw. <b>2016</b> , 509, 91-98		31
1147	Preparation of the chitosan grafted poly (quatarnary ammonium)/Fe <sub>3</sub> O <sub>4</sub> nanoparticles and its adsorption performance for food yellow 3. <i>Carbohydrate Polymers</i> , <b>2016</b> , 152, 327-336	10.3	41
1146	Development of chitosan/bentonite hybrid composite to remove hazardous anionic and cationic dyes from colored effluents. <b>2016</b> , 4, 3230-3239		68
1145	A review on chitosan-based adsorptive membranes. <i>Carbohydrate Polymers</i> , <b>2016</b> , 152, 419-432	10.3	205
1144	Antibacterial nanocomposites based on chitosan/Co-MCM as a selective and efficient adsorbent for organic dyes. <b>2016</b> , 91, 744-51		88
1143	Kinetic and isotherm analyses for thorium (IV) adsorptive removal from aqueous solutions by modified magnetite nanoparticle using response surface methodology (RSM). <b>2016</b> , 479, 174-183		26
1142	Fast adsorption of methyl blue on zeolitic imidazolate framework-8 and its adsorption mechanism. <b>2016</b> , 6, 109608-109612		57
1141	Highly efficient removal of lead and cadmium during wastewater irrigation using a polyethylenimine-grafted gelatin sponge. <b>2016</b> , 6, 33573		28
1140	Reusable Green Aerogels from Cross-Linked Hairy Nanocrystalline Cellulose and Modified Chitosan for Dye Removal. <b>2016</b> , 32, 11771-11779		108

1139	Functionalized hybrid materials assisted organic dyes removal from aqueous solutions. <b>2016</b> , 6, 159-163	16
1138	Facile preparation of carbon nanotubes based carboxymethyl chitosan nanocomposites through combination of mussel inspired chemistry and Michael addition reaction: Characterization and improved Cu <sup>2+</sup> removal capability. <b>2016</b> , 68, 446-454	86
1137	Self-Assembled and Cross-Linked Animal and Plant-Based Polysaccharides: Chitosan-Cellulose Composites and Their Anion Uptake Properties. <b>2016</b> , 8, 33197-33209	40
1136	A magnetic mesoporous chitosan based core-shells biopolymer for anionic dye adsorption: Kinetic and isothermal study and application of ANN. <b>2016</b> , 133, n/a-n/a	36
1135	Synthesis, characterization of magnetic chitosan/active charcoal composite and using at the adsorption of methylene blue and reactive blue4. <b>2016</b> , 232, 26-38	89
1134	Modified adsorbent hydroxypropyl cellulose xanthate for removal of Cu <sup>2+</sup> and Ni <sup>2+</sup> from aqueous solution. <b>2016</b> , 57, 27419-27431	7
1133	New trends in removing heavy metals from wastewater. <b>2016</b> , 100, 6509-6518	128
1132	Graphene and carbon-based nanomaterials as highly efficient adsorbents for oils and organic solvents. <b>2016</b> , 5,	31
1131	Fabrication of chitosan/Ag-nanoparticles/clay nanocomposites for catalytic control on oxidative polymerization of aniline. <b>2016</b> , 510, 221-230	21
1130	Chitosan-derived carbonaceous material for highly efficient adsorption of chromium (VI) from aqueous solution. <b>2016</b> , 91, 443-9	27
1129	Adsorptive amputation of hazardous azo dye Congo red from wastewater: a critical review. <b>2016</b> , 23, 14810-53	96
1128	Sorption of Pb(II) on carboxymethyl chitosan-conjugated magnetite nanoparticles: application of sorbent dosage-dependent isotherms. <b>2016</b> , 294, 1369-1379	10
1127	Synthesis of assorted metal ions anchored alginate bentonite biocomposites for Cr(VI) sorption. <i>Carbohydrate Polymers</i> , <b>2016</b> , 151, 1100-1109	10.3 28
1126	Determination of natural phenols in olive fruits by chitosan assisted matrix solid-phase dispersion microextraction and ultrahigh performance liquid chromatography with quadrupole time-of-flight tandem mass spectrometry. <b>2016</b> , 1456, 68-76	37
1125	A Self-Assembling Octahedral Aggregate of Poly(methyl methacrylate) Nanospheres on a Silver Substrate. <b>2016</b> , 81, 161-165	1
1124	Dodecyl sulfate chain anchored mesoporous graphene: Synthesis and application to sequester heavy metal ions from aqueous phase. <b>2016</b> , 304, 431-439	24
1123	Resonance Rayleigh scattering method for highly sensitive detection of chitosan using aniline blue as probe. <b>2016</b> , 168, 206-211	9
1122	Equipping an adsorbent with an indicator: a novel composite to simultaneously detect and remove heavy metals from water. <b>2016</b> , 4, 11897-11907	29

1121	Chitosan microspheres modified with poly(ethylenimine) enhance the adsorption of methyl orange from aqueous solutions. <b>2016</b> , 11, 428-436	12
1120	Preparation and characterization of chitosan/halloysite magnetic microspheres and their application for removal of tetracycline from an aqueous solution. <b>2016</b> , 57, 4162-4173	5
1119	Investigation of antagonistic and synergistic interactions on simultaneous adsorption of crystal violet and Cu(II) using chitin and chitosan. <b>2016</b> , 57, 4059-4072	3
1118	Study of methyl orange adsorption properties on ZnO@Al <sub>2</sub> O <sub>3</sub> nanocomposite adsorbent particles. <b>2016</b> , 57, 12324-12334	21
1117	Silane grafted chitosan for the efficient remediation of aquatic environment contaminated with arsenic(V). <b>2016</b> , 467, 203-212	19
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1115	Removal of direct dyes from aqueous solution by oxidized starch cross-linked chitosan/silica hybrid membrane. <b>2016</b> , 82, 174-81	66
1114	Removal of heavy metal ions using chitosan and modified chitosan: A review. <b>2016</b> , 214, 175-191	472
1113	Simultaneous removal of acid green 25 and mercury ions from aqueous solutions using glutamine modified chitosan magnetic composite microspheres. <b>2016</b> , 209, 21-9	48
1112	Remarkable performance of magnetized chitosan-decorated lignocellulose fiber towards biosorptive removal of acidic azo colorant from aqueous environment. <b>2016</b> , 100, 97-106	19
1111	Microfungal spores ( <i>Ustilago maydis</i> and <i>U. digitariae</i> ) immobilised chitosan microcapsules for heavy metal removal. <i>Carbohydrate Polymers</i> , <b>2016</b> , 138, 201-9	10.3 24
1110	Efficiency of chitosan@algal biomass composite microbeads at heavy metal removal. <b>2016</b> , 98, 38-47	33
1109	Fungal biomass composite with bentonite efficiency for nickel and zinc adsorption: A mechanistic study. <b>2016</b> , 91, 459-471	128
1108	CuO embedded chitosan spheres as antibacterial adsorbent for dyes. <b>2016</b> , 88, 113-9	99
1107	A study on the adsorption of methylene blue onto gum ghatti/TiO <sub>2</sub> nanoparticles-based hydrogel nanocomposite. <b>2016</b> , 88, 66-80	83
1106	Metal ion sorption dynamics in a foamed chitosan structure. <b>2016</b> , 57, 17892-17900	
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1104	Chitosan film loaded with silver nanoparticles-sorbent for solid phase extraction of Al(III), Cd(II), Cu(II), Co(II), Fe(III), Ni(II), Pb(II) and Zn(II). <i>Carbohydrate Polymers</i> , <b>2016</b> , 147, 45-52	10.3 38

1103	Microchannel-embedded metal-carbon-polymer nanocomposite as a novel support for chitosan for efficient removal of hexavalent chromium from water under dynamic conditions. <b>2016</b> , 293, 44-54	58
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1101	Adsorption behaviour of copper onto a novel modified chitosan material: thermodynamic study. <b>2016</b> , 57, 25080-25088	0
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1099	Chitosan-alunite composite: An effective dye remover with high sorption, regeneration and application potential. <i>Carbohydrate Polymers</i> , <b>2016</b> , 143, 318-26	10.3 36
1098	Adsorption of dyes onto palygorskite and its composites: A review. <b>2016</b> , 4, 1274-1294	134
1097	Adsorption phenomenon perceived in chitosan beads leading to a fast and enhanced malachite green removal. <b>2016</b> , 290, 371-380	29
1096	Chemically modified magnetic chitosan microspheres for Cr(VI) removal from acidic aqueous solution. <b>2016</b> , 26, 79-86	36
1095	Aqueous Co(II) adsorption using 8-hydroxyquinoline anchored Fe <sub>2</sub> O <sub>3</sub> @chitosan with Co(II) as imprinted ions. <b>2016</b> , 87, 375-84	43
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1093	Rapid removal of organic micropollutants from water by a porous cyclodextrin polymer. <b>2016</b> , 529, 190-4	1038
1092	Efficient removal of phosphate by facile prepared magnetic diatomite and illite clay from aqueous solution. <b>2016</b> , 287, 162-172	98
1091	The stability of magnetic chitosan beads in the adsorption of Cu <sup>2+</sup> . <b>2016</b> , 6, 2678-2686	23
1090	Use of a new magnetic ion-imprinted nanocomposite adsorbent for selective and rapid preconcentration and determination of trace nickel by flame atomic absorption spectrometry. <b>2016</b> , 8, 824-829	42
1089	Kinetics of Removal of Chromium From Wastewater Using Chitosan-Based Binary Polymer Blends. <b>2016</b> , 46, 1310-1317	8
1088	Perspectives and applications of nanotechnology in water treatment. <b>2016</b> , 14, 1-14	82
1087	Enhanced interfacial interaction for effective reinforcement of chitosan nanocomposites at different loading of modified multiwalled carbon nanotubes with vitamin C. <b>2016</b> , 48, 600-613	7
1086	Synthesis of cyclophosphazene bridged mesoporous organosilicas for CO <sub>2</sub> capture and Cr (VI) removal. <b>2016</b> , 219, 93-102	34

1085	Biogenic synthesis of magnetic perlite@iron oxide composite: application as a green support for dye removal. <b>2016</b> , 57, 11859-11871	12
1084	Chitosan-/PVA-coated magnetic nanoparticles for Cu(II) ions adsorption. <b>2016</b> , 57, 18463-18474	6
1083	Removal of heavy metals from wastewater using magnetic nanocomposites: Analysis of the experimental conditions. <b>2016</b> , 51, 550-563	34
1082	Preparation and evaluation of hydrogel composites based on starch-g-PNaMA/eggshell particles as dye biosorbent. <b>2016</b> , 57, 18144-18156	11
1081	Synthesis of 8-Hydroxyquinoline-functionalized polyglycidyl methacrylate resin and its efficient adsorption and desorption for Pb(II). <b>2016</b> , 57, 18425-18437	3
1080	Determination of thermodynamics and design parameters for ionic liquid-induced cloud point extraction of Coralene red dye. <b>2016</b> , 13, 589-598	10
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1078	Removal of hazardous azo dye Metanil Yellow from aqueous solution by cross-linked magnetic biosorbent; equilibrium and kinetic studies. <b>2016</b> , 57, 13347-13356	16
1077	Adsorption of direct green 26 onto fix 3500 treated sawdust: equilibrium, kinetic and isotherms. <b>2016</b> , 57, 13334-13346	1
1076	Magnetic adsorption separation process: an alternative method of mercury extracting from aqueous solution using modified chitosan coated Fe <sub>3</sub> O <sub>4</sub> nanocomposites. <b>2017</b> , 92, 188-200	70
1075	Preparation of nanomaterials for the ultrasound-enhanced removal of Pb ions and malachite green dye: Chemometric optimization and modeling. <b>2017</b> , 34, 677-691	105
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1072	Fabrication of Ag-exchanged zeolite/chitosan composites and effects of plasma treatment. <b>2017</b> , 241, 383-391	20
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1070	Kinetic and thermodynamic studies on adsorption of Cu <sup>2+</sup> , Pb <sup>2+</sup> , methylene blue and malachite green from aqueous solution using AMPS-modified hazelnut shell powder. <b>2017</b> , 33, 112-118	17
1069	Removal of Pb(II) and methylene blue from aqueous solution by magnetic hydroxyapatite-immobilized oxidized multi-walled carbon nanotubes. <b>2017</b> , 494, 380-388	100
1068	A Kinetic Uptake Study of Roxarsone Using Cross-Linked Chitosan Beads. <b>2017</b> , 56, 1704-1712	17

1067	Synthesis, characterization and exploitation of nano-TiO <sub>2</sub> /feldspar-embedded chitosan beads towards UV-assisted adsorptive abatement of aqueous arsenic (As). <b>2017</b> , 316, 370-382	45
1066	A novel regenerated silk fibroin-based hydrogels with magnetic and catalytic activities. <b>2017</b> , 35, 515-523	20
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1062	Ampholytic microspheres constructed from chitosan and carrageenan in alkali/urea aqueous solution for purification of various wastewater. <b>2017</b> , 317, 766-776	61
1061	On the synthesis and performance of hierarchical nanoporous TS-1 catalysts. <b>2017</b> , 244, 83-92	22
1060	Recent advances on iron oxide magnetic nanoparticles as sorbents of organic pollutants in water and wastewater treatment. <b>2017</b> , 32, 111-117	104
1059	Chitosan extraction from lobster shells and its grafted with functionalized MWCNT for simultaneous removal of Pb ions and eriochrome cyanine R dye after their complexation. <b>2017</b> , 102, 181-191	48
1058	Removing Reactive Red 120 and 196 using chitosan/zeolite composite from aqueous solutions: Kinetics, isotherms, and process optimization. <b>2017</b> , 51, 185-195	64
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1056	Polyethylenimine functionalized amorphous carbon fabricated from oil palm leaves as a novel adsorbent for Cr(VI) and Pb(II) from aqueous solution. <b>2017</b> , 16, 296-308	30
1055	Synthesis, Structural, and Adsorption Properties and Thermal Stability of Nanohydroxyapatite/Polysaccharide Composites. <b>2017</b> , 12, 155	33
1054	Water-resistant modification of poly(vinyl alcohol)/polyamidoxime chelating fibers prepared by emulsion spinning and their adsorption properties. <b>2017</b> , 134,	2
1053	Highly efficient removal of copper ions from water using poly(acrylic acid)-grafted chitosan adsorbent. <b>2017</b> , 295, 627-635	26
1052	Fabrication of metal ions cross-linked alginate assisted biocomposite beads for selective phosphate removal. <b>2017</b> , 5, 1438-1446	40
1051	Preparation of crosslinked chitosan magnetic membrane for cations sorption from aqueous solution. <b>2017</b> , 75, 2034-2046	28
1050	The effects of drilling fluids and environment protection from pollutants using some models. <b>2017</b> , 3, 1	12

1049	Interfacially crosslinked composite porous membranes for ultrafast removal of anionic dyes from water through permeating adsorption. <b>2017</b> , 337, 217-225	51
1048	Using amine-functionalized magnetite hollow nanospheres (AMHNs) as adsorbents for heavy metal ions. <b>2017</b> , 76, 452-458	1
1047	Porous chitosan/hydroxyapatite composite membrane for dyes static and dynamic removal from aqueous solution. <b>2017</b> , 338, 241-249	67
1046	Preparation and characterization of poly(maleic acid)-grafted cross-linked chitosan microspheres for Cd(II) adsorption. <i>Carbohydrate Polymers</i> , <b>2017</b> , 172, 28-39	10.3 71
1045	Graphene Oxide Nanosheets as An Efficient and Reusable Sorbents for Eosin Yellow Dye Removal from Aqueous Solutions. <b>2017</b> , 2, 3598-3607	14
1044	Functionalized chitosan biosorbents with ultra-high performance, mechanical strength and tunable selectivity for heavy metals in wastewater treatment. <b>2017</b> , 325, 350-359	57
1043	Hexavalent chromium removal by chitosan modified-bioreduced nontronite. <b>2017</b> , 210, 25-41	25
1042	Pt electrocatalyst supported on metal ion-templated hierarchical porous nitrogen-doped carbon from chitosan for methanol electrooxidation. <b>2017</b> , 248, 99-107	14
1041	Neuro-fuzzy modeling to adsorptive performance of magnetic chitosan nanocomposite. <b>2017</b> , 7, 29-36	12
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1039	Green biosorbents based on chitosan-montmorillonite beads for anionic dye removal. <b>2017</b> , 5, 3309-3318	63
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1037	The effect of pH on the bonding of Cu and chitosan-montmorillonite composite. <b>2017</b> , 103, 751-757	9
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1034	Removal of methylene blue dye from aqueous solutions by a new chitosan/zeolite composite from shrimp waste: Kinetic and equilibrium study. <b>2017</b> , 34, 1699-1707	43
1033	In situ synthesis of hierarchical structured cotton fibers/MnO <sub>2</sub> composites: a versatile and recyclable device for wastewater treatment. <b>2017</b> , 7, 31475-31484	6
1032	Synthesis and magnetic properties of nanostructured metallic Co, Mn and Ni oxide materials obtained from solid-state metal-macromolecular complex precursors. <b>2017</b> , 7, 27729-27736	16



1031	Efficient techniques for the removal of toxic heavy metals from aquatic environment: A review. <b>2017</b> , 5, 2782-2799	651
1030	Magnetic ZnFe <sub>2</sub> O <sub>4</sub> @chitosan encapsulated in graphene oxide for adsorptive removal of organic dye. <b>2017</b> , 7, 28145-28151	16
1029	Utilization of magnetic nano cobalt ferrite doped Capra aegagrus hircus dung activated carbon composite for the adsorption of anionic dyes. <b>2017</b> , 5, 2820-2829	13
1028	Environmentally benign chitosan as reductant and supporter for synthesis of Ag/AgCl/chitosan composites by one-step and their photocatalytic degradation performance under visible-light irradiation. <b>2017</b> , 11, 130-138	19
1027	Recent Progress in the Utilization of Chitin/Chitosan for Chemicals and Materials. <b>2017</b> , 151-187	1
1026	Preparation, Characterization and Methylene Blue Dye Adsorption Ability of Acid Activated-Natural Zeolite. <b>2017</b> , 172, 012039	3
1025	Comparison of Co(II) adsorption by a crosslinked carboxymethyl chitosan hydrogel and resin: behaviour and mechanism. <b>2017</b> , 41, 3487-3497	16
1024	Enhancement of the optical and mechanical properties of chitosan using Fe <sub>2</sub> O <sub>3</sub> nanoparticles. <b>2017</b> , 28, 10877-10884	34
1023	Effectiveness of N,O-carboxymethyl chitosan on destabilization of Marine Diesel, Diesel and Marine-2T oil for oil spill treatment. <i>Carbohydrate Polymers</i> , <b>2017</b> , 167, 326-336	10.3 39
1022	Preparation of magnetic porous NiFe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> composite xerogels for potential application in adsorption of Ce(IV) ions from aqueous solution. <b>2017</b> , 7, 16513-16523	28
1021	Metal Ions Removal Using Nano Oxide Pyrolox Material. <b>2017</b> , 12, 95	24
1020	Successive Extraction of As(V), Cu(II), and P(V) Ions from Water Using Surface Modified Ghee Residue Protein. <b>2017</b> , 5, 3742-3750	14
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1011	Equilibrium, kinetic and thermodynamic studies of Reactive Red 120 dye adsorption by chitosan beads from aqueous solution. <b>2017</b> , 2, 85-93	28
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1006	Sol-Gel Derived Organic-Inorganic Hybrid Ceramic Materials for Heavy Metal Removal. <b>2017</b> , 253-274	8
1005	Malachite green – a cationic dye and its removal from aqueous solution by adsorption. <b>2017</b> , 7, 3407-3445	89
1004	Synthesis and Characterization of Chitosan-Grafted-Poly(2-Hydroxyaniline) Microstructures for Water Decontamination. <b>2017</b> , 25, 973-982	12
1003	Sol-gel Based Nanoceramic Materials: Preparation, Properties and Applications. <b>2017</b> ,	4
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993	Environmentally friendly cellulose-based polyelectrolytes in wastewater treatment. <b>2017</b> , 76, 1490-1499	19
992	Preparation and Adsorption Properties of Fe/Chitosan/Fly Ash Composite. <b>2017</b> , 898, 1885-1891	1
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990	Biosorption of Congo red dye by <i>Aspergillus carbonarius</i> M333 and <i>Penicillium glabrum</i> Pg1: Kinetics, equilibrium and thermodynamic studies. <b>2017</b> , 80, 915-923	43
989	Hydrogels with high mechanical strength cross-linked by a rosin-based crosslinking agent. <b>2017</b> , 7, 42541-42548	5
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987	Versatile nature of hetero-chitosan based derivatives as biodegradable adsorbent for heavy metal ions; a review. <b>2017</b> , 105, 190-203	81
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983	In situ immobilization of Cd by organic amendments and their effect on antioxidant enzyme defense mechanism in mung bean ( <i>Vigna radiata</i> L.) seedlings. <b>2017</b> , 118, 561-570	20
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979	Kinetics, equilibrium modeling, and thermodynamics on removal of Cr(VI) ions from aqueous solution using novel composites with strong base anion exchanger microspheres embedded into chitosan/poly(vinyl amine) cryogels. <b>2017</b> , 330, 675-691	67
978	Synthesis of chitosan based magnetic molecularly imprinted polymers for selective separation and spectrophotometric determination of histamine in tuna fish. <i>Carbohydrate Polymers</i> , <b>2017</b> , 177, 306-314	10.3 29

977	Preparation and Characterization of Magnetic Cobalt Ferrites/SBA-15 Nanocomposite Adsorbents and the Removal of Methylene Blue. <b>2017</b> , 12, 1750060		2
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974	WITHDRAWN: Adsorption kinetics of methylene blue using alkali and microwave modified apricot stones. <b>2017</b> ,		1
973	The effect of ratio chitosan-bentonite and processing time on the characterization of chitosan-bentonite composite. <b>2017</b> , 223, 012034		0
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971	WITHDRAWN: Removal of heavy metals by biopolymer (chitosan)/nanoclay composites. <b>2017</b> ,		1
970	The use of cross-linked chitosan beads for nutrients (nitrate and orthophosphate) removal from a mixture of P-PO, N-NO and N-NO. <b>2017</b> , 104, 1280-1293		27
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963	Biowaste-derived substances as a tool for obtaining magnet-sensitive materials for environmental applications in wastewater treatments. <b>2017</b> , 310, 307-316		35
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961	Synthesis of chitosan/polyvinyl alcohol/zeolite composite for removal of methyl orange, Congo red and chromium(VI) by flocculation/adsorption. <i>Carbohydrate Polymers</i> , <b>2017</b> , 157, 1568-1576	10.3	130
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959	Effective and selective removal of aromatic amines from water by Cu <sup>2+</sup> -treated chitosan/alumina nanocomposite. <b>2017</b> , 35, 218-240	8
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954	Simultaneous removing of Pb ions and alizarin red S dye after their complexation by ultrasonic waves coupled adsorption process: Spectrophotometry detection and optimization study. <b>2017</b> , 35, 51-60	44
953	Combination of Fenton processes and biotreatment for wastewater treatment and soil remediation. <b>2017</b> , 574, 1599-1610	236
952	Immobilization of in situ generated Fe <sup>0</sup> -nanoparticles in tripolyphosphate-crosslinking chitosan membranes for enhancing U(VI) adsorption. <b>2017</b> , 311, 779-787	11
951	Facile Preparation of Chitosan Films for High Performance Removal of Reactive Blue 19 Dye from Aqueous Solution. <b>2017</b> , 25, 146-155	14
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948	Synthesis, characterization and modification of Gum Arabic microgels for hemocompatibility and antimicrobial studies. <i>Carbohydrate Polymers</i> , <b>2017</b> , 156, 380-389	10.3 52
947	Removal of various pollutants from water and wastewater by modified chitosan adsorbents. <b>2017</b> , 47, 2331-2386	177
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939	Preparation and Chemical/Microstructural Characterization of Azacrown Ether-Crosslinked Chitosan Films. <b>2017</b> , 10,	14
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933	IMPACT OF CORONA TREATED ACTIVATED CARBON IN ANIONIC AND CATIONIC DYE ADSORPTION. <b>2017</b> , 23, 219-228	3
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927	Adsorption removal of tartrazine by chitosan/polyaniline composite: Kinetics and equilibrium studies. <b>2018</b> , 114, 1345-1353	56
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925	Modification of chitosan/calcium alginate/FeO hydrogel microsphere for enhancement of Cu(II) adsorption. <b>2018</b> , 25, 3922-3932	5
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920	Impact of heavy metals and nanoparticles on aquatic biota. <b>2018</b> , 16, 919-946		74
919	Removal of Cd (II), Pb (II) and Cu (II) ions from aqueous solution by polyamidoamine dendrimer grafted magnetic graphene oxide nanosheets. <b>2018</b> , 87, 225-240		58
918	Fabrication of Magnetic Fe/Zn Layered Double [email protected] Nanotube Composites and Their Application for U(VI) and <sup>241</sup> Am(III) Removal. <b>2018</b> , 1, 2386-2396		23
917	Superabsorbent nanocomposite from sugarcane bagasse, chitin and clay: Synthesis, characterization and swelling behaviour. <i>Carbohydrate Polymers</i> , <b>2018</b> , 193, 281-288	10.3	19
916	Synthesis of calcon-imprinted magnetic chitosan nanoparticles as a novel adsorbent and its application in selective removal of calcon dye from aqueous solutions. <b>2018</b> , 114, 1151-1160		15
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911	Surface sodium lignosulphonate-immobilized sawdust particle as an efficient adsorbent for capturing Hg from aqueous solution. <b>2018</b> , 517, 9-17		9
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908	Kinetics and mechanistic description of adsorptive uptake of crystal violet dye by lignified elephant grass complexed isolate. <b>2018</b> , 6, 2105-2118		36
907	Metal recovery by microbial electro-metallurgy. <b>2018</b> , 94, 435-461		86
906	Hydrothermal synthesis of hydrocalumite assisted biopolymeric hybrid composites for efficient Cr(VI) removal from water. <b>2018</b> , 42, 3371-3382		22

905	Synthesis of PAN copolymer containing pendant 2-ureido-4[1H]-pyrimidone (UPy) units by RAFT polymerization and its adsorption behaviors of Hg <sup>2+</sup> . <b>2018</b> , 75, 4327-4339	3
904	Chitosan-Silica Hybrid Composites for Removal of Sulfonated Azo Dyes from Aqueous Solutions. <b>2018</b> , 34, 2258-2273	60
903	Urethane-Linked Imidazole-Cellulose Microcrystals: Synthesis and Their Dual Functions in Adsorption and Naked Eye Sensing with Colorimetric Enhancement of Metal Ions. <b>2018</b> , 6, 3686-3695	14
902	Adsorption isotherms, kinetics and thermodynamics of nitrate and phosphate in binary systems on a novel adsorbent derived from corn stalks. <b>2018</b> , 188, 95-100	79
901	Synthesis and characterization of graphene oxide sheets integrated with gold nanoparticles and their applications to adsorptive removal and catalytic reduction of water contaminants.. <b>2018</b> , 8, 3599-3610	38
900	Preparation, Characterization and Dye Adsorption/Reuse of Chitosan-Vanadate Films. <b>2018</b> , 26, 2917-2924	48
899	Highly selective adsorption of dyes and arsenate from their aqueous mixtures using a silica-sand/cationized-starch composite. <b>2018</b> , 263, 210-219	19
898	Water Remediation. <b>2018</b> ,	5
897	Recent Advancement on Bioaugmentation Strategies for Process Industry Wastewater (PIWW) Treatment. <b>2018</b> , 189-209	1
896	Fabrication of cellulose nanowhiskers reinforced chitosan-xylan nanocomposite films with antibacterial and antioxidant activities. <i>Carbohydrate Polymers</i> , <b>2018</b> , 184, 66-73	10.3 48
895	Insight into adsorption mechanism of lead(II) from aqueous solution by chitosan loaded MnO <sub>2</sub> nanoparticles. <b>2018</b> , 207, 294-302	50
894	Preparation of nanoparticle-modified polymeric adsorbent using wastage fuzzes of mechanized carpet and its application in dye removal from aqueous solution. <b>2018</b> , 178, 373-383	21
893	Simultaneous Adsorption of Cationic and Anionic Dyes by Chitosan/Cellulose Beads for Wastewaters Treatment. <b>2018</b> , 12, 59-65	17
892	New N-guanidinium chitosan/silica ionic microhybrids as efficient adsorbent for dye removal from waste water. <b>2018</b> , 111, 762-768	29
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889	Preparation and Characterization of Chitosan-Coated Diatomaceous Earth for Hexavalent Chromium Removal. <b>2018</b> , 5, 23-39	9
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886	Nanodiamond-filled chitosan as an efficient adsorbent for anionic dye removal from aqueous solutions. <b>2018</b> , 6, 3283-3294	35
885	Evaluation of Waste Eggshells for Adsorption of Copper from Synthetic and Swine Wastewater. <b>2018</b> , 61, 967-976	2
884	Azo dyes adsorption in fixed bed column packed with different deacetylation degrees chitosan coated glass beads. <b>2018</b> , 6, 3233-3241	17
883	Preparation of chitosan/MCM-41-PAA nanocomposites and the adsorption behaviour of Hg(II) ions. <b>2018</b> , 5, 171927	14
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881	Three-dimensional polylactic acid@graphene oxide/chitosan sponge bionic filter: Highly efficient adsorption of crystal violet dye. <b>2018</b> , 113, 792-803	43
880	Removal of cadmium(II) cations from an aqueous solution with aminothiourea chitosan strengthened magnetic biochar. <b>2018</b> , 135, 46239	29
879	Efficient Removal of Cationic and Anionic Dyes from Their Binary Mixtures by Organic/Inorganic Hybrid Material. <b>2018</b> , 28, 968-977	9
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877	EDTA modified $\beta$ -cyclodextrin/chitosan for rapid removal of Pb(II) and acid red from aqueous solution. <b>2018</b> , 523, 56-64	87
876	Yellow-emitting carbon-dots-impregnated carboxy methyl cellulose/poly-vinyl-alcohol and chitosan: stable, freestanding, enhanced-quenching Cu <sup>2+</sup> -ions sensor. <b>2018</b> , 6, 4508-4515	31
875	Sulfonated graphene oxide as an adsorbent for removal of Pb and methylene blue. <b>2018</b> , 524, 297-305	90
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873	Effective Adsorption of Crystal Violet Dye from an Aqueous Solution Using Lignin-Rich Isolate from Elephant Grass. <b>2018</b> , 3, 33-46	28
872	A highly efficient magnetic chitosan fluid adsorbent with a high capacity and fast adsorption kinetics for dyeing wastewater purification. <b>2018</b> , 345, 556-565	93
871	Polyethersulfone nanofiltration membrane embedded by chitosan nanoparticles: Fabrication, characterization and performance in nitrate removal from water. <i>Carbohydrate Polymers</i> , <b>2018</b> , 191, 142-151 <sup>10.3</sup>	35
870	Antibacterial and lead ions adsorption characteristics of chitosan-manganese dioxide bionanocomposite. <b>2018</b> , 111, 1140-1145	43



869	Carbon dioxide adsorption and cycloaddition reaction of epoxides using chitosan-graphene oxide nanocomposite as a catalyst. <b>2018</b> , 69, 77-84	33
868	Evaluation of the Biosorption Characteristics of Tremella fuciformis for the Decolorization of Cationic Dye from Aqueous Solution. <b>2018</b> , 26, 1051-1060	2
867	Preparation of Oxidized and Grafted Chitosan Superabsorbents for Urea Delivery. <b>2018</b> , 26, 728-739	17
866	Ion cum molecularly dual imprinted polymer for simultaneous removal of cadmium and salicylic acid. <b>2018</b> , 31, e2630	16
865	Preparation and properties of chitosan-metal complex: Some factors influencing the adsorption capacity for dyes in aqueous solution. <b>2018</b> , 66, 301-309	39
864	Facile fabrication of ZIF-8 embedded millimeter-sized porous polyethersulfone beads for selective dye removal. <b>2018</b> , 39, 3896-3902	5
863	Adsorption of phosphate from aqueous solution by Zr(IV)-crosslinked quaternized chitosan/bentonite composite. <b>2018</b> , 37, 267-275	9
862	Preparation of chitosan functionalized end-capped Ag-NPs and composited with Fe <sub>3</sub> O <sub>4</sub> -NPs: Controlled release to pH-responsive delivery of progesterone and antibacterial activity against pseudomonas aeruginosa (PAO-1). <b>2018</b> , 32, e3921	14
861	Preparation of green chelating fibers and adsorption properties for Cd(II) in aqueous solution. <b>2018</b> , 53, 2277-2289	15
860	Preparation of porous 2,3-dialdehyde cellulose beads crosslinked with chitosan and their application in adsorption of Congo red dye. <i>Carbohydrate Polymers</i> , <b>2018</b> , 181, 200-207	10.3 79
859	Bio- and Nanosorbents from Natural Resources. <b>2018</b> ,	
858	Methylene blue removal from aqueous solution by magnetic clinoptilolite/chitosan/EDTA nanocomposite. <b>2018</b> , 44, 1459-1483	32
857	Adsorption of malachite green from aqueous solution by using novel chitosan ionic liquid beads. <b>2018</b> , 107, 1270-1277	90
856	Ultrasound-assisted synthesis of nanocomposites based on aromatic polyamide and modified ZnO nanoparticle for removal of toxic Cr(VI) from water. <b>2018</b> , 41, 75-84	29
855	Synthesis, characterization and adsorption behavior of cotton fiber based Schiff base. <b>2018</b> , 107, 1102-1112	29
854	A systematic approach of chitosan nanoparticle preparation via emulsion crosslinking as potential adsorbent in wastewater treatment. <i>Carbohydrate Polymers</i> , <b>2018</b> , 180, 46-54	10.3 35
853	Efficacy and field applicability of Burmese grape leaf extract (BGLE) for cadmium removal: An implication of metal removal from natural water. <b>2018</b> , 147, 585-593	35
852	Emerging materials for sample preparation. <b>2018</b> , 41, 262-287	26

851	Adsorption of Cu(II), Cd(II), Hg(II), Pb(II) and Zn(II) from aqueous single metal solutions by guanyl-modified cellulose. <b>2018</b> , 107, 1538-1549		82
850	Efficient removal of anionic dye (Congo red) by dialdehyde microfibrillated cellulose/chitosan composite film with significantly improved stability in dye solution. <b>2018</b> , 107, 283-289		68
849	Preparation of CMC-g-P(SPMA) super adsorbent hydrogels: Exploring their capacity for MB removal from waste water. <b>2018</b> , 106, 940-946		46
848	Preparation and testing of a tetra-amine copper(II) chitosan bead system for enhanced phosphate remediation. <i>Carbohydrate Polymers</i> , <b>2018</b> , 183, 173-182	10.3	28
847	Adsorption Studies of PVA Based Thermosensitive Polymers in Heavy Metal Removal. <b>2018</b> , 26, 2096-2106		8
846	Porous CeB6 nanostructure: a step towards rapid adsorption of methylene blue. <b>2018</b> , 54, 423-428		7
845	Nano-composites chitosan-curcumin synergistically inhibits the oxidative stress induced by toxic metal cadmium. <b>2018</b> , 108, 591-597		15
844	Amidoxime-modified chitosan for pigment red 224 enrichment through reversible assembly. <b>2018</b> , 42, 1492-1500		4
843	Highly efficient absorption of cationic dyes by nano composite hydrogels based on $\kappa$ -carrageenan and nano silver chloride. <i>Carbohydrate Polymers</i> , <b>2018</b> , 181, 587-595	10.3	31
842	Alleviation of nickel toxicity and an improvement in zinc bioavailability in sunflower seed with chitosan and biochar application in pH adjusted nickel contaminated soil. <b>2018</b> , 64, 1053-1067		72
841	Adsorption behavior and mechanism of acidic blue 25 dye onto cucurbit[8]uril: A spectral and DFT study. <b>2018</b> , 193, 125-132		18
840	Synthesis and characterization of methyl pyrazolone functionalized magnetic chitosan composite for visible light photocatalytic degradation of methylene blue. <b>2018</b> , 108, 1035-1044		15
839	Modelling and Optimization of Uranium (VI) Ions Adsorption Onto Nano-ZnO/Chitosan Bio-composite Beads with Response Surface Methodology (RSM). <b>2018</b> , 26, 2300-2310		18
838	A new efficient adsorbent in the preconcentration studies of the Cr(III) and Fe(III) ions. <b>2018</b> , 32, e4158		6
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836	A novel continuous magnetic nano-Fe <sub>3</sub> O <sub>4</sub> /perlite fixed bed reactor for catalytic wet peroxide oxidation of dyes: reactor structure. <b>2018</b> , 15, 543-550		5
835	Preparation, characterization and environmental/electrochemical energy storage testing of low-cost biochar from natural chitin obtained via pyrolysis at mild conditions. <b>2018</b> , 427, 883-893		35
834	Adsorption of Zn(II) ions by chitosan coated diatomaceous earth. <b>2018</b> , 106, 602-610		43

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821	Using Natural Biomacromolecules for Adsorptive and Enzymatic Removal of Aniline Blue from Water. <b>2018</b> , 23,	7
820	Novel 2D Nanosheets with Potential Applications in Heavy Metal Purification: A Review. <b>2018</b> , 5, 1801094	48
819	Adsorption of congo red dye from aqueous solution onto amino-functionalized silica gel. <b>2018</b> , 23, 1053-1060	33
818	New Chitosan/Iron Oxide Composites: Fabrication and Application for Removal of Sr Radionuclide from Aqueous Solutions. <b>2018</b> , 3,	10
817	Recent approaches in guar gum hydrogel synthesis for water purification. <b>2018</b> , 23, 621-632	35
816	Adsorption of metals by crosslinked chitosan beads in sugarcane contaminated streams. <b>2018</b> , 119, 128-134	9

815	Adsorption of hexavalent chromium by novel chitosan/poly(ethylene oxide)/permutit electrospun nanofibers. <b>2018</b> , 42, 17740-17749	21
814	Removal of Al (III) and Fe (III) from binary system and industrial effluent using chitosan films. <b>2018</b> , 120, 1667-1673	34
813	Immobilization of carboxyl-modified multiwalled carbon nanotubes in chitosan-based composite membranes for U(VI) sorption. <b>2018</b> , 317, 1419-1428	21
812	Rhizofiltration system consists of chitosan and natural <i>Arundo donax</i> L. for removal of basic red dye. <b>2018</b> , 120, 1508-1514	15
811	Opportunities and constraints of using the innovative adsorbents for the removal of cobalt(II) from wastewater: A review. <b>2018</b> , 10, 435-456	28
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809	CO-Activated Adsorption: A New Approach to Dye Removal by Chitosan Hydrogel. <b>2018</b> , 3, 14103-14110	20
808	Adsorption of Cr(III) and Cu(II) on Hydrothermally Synthesized Graphene Oxide-Calcium-Zinc Nanocomposite. <b>2018</b> ,	4
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804	Superelastic Carbon Aerogel with Ultrahigh and Wide-Range Linear Sensitivity. <b>2018</b> , 10, 40641-40650	40
803	Polymer-Decorated Filter Material for Wastewater Treatment: In Situ Ultrafast Oil/Water Emulsion Separation and Azo Dye Adsorption. <b>2018</b> , 34, 13192-13202	14
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799	Synthesis of citric acid-modified resins and their adsorption properties towards metal ions. <b>2018</b> , 5, 171667	5
798	Chitosan Functionalization with Amino Acids Yields to Higher Copper Ions Adsorption Capacity. <b>2018</b> , 26, 4338-4349	11

797	A Fundamental Study of Disodium Carboxymethyl Trithiocarbonate (Orfom D8) in Flotation Separation of Copper-Molybdenum Sulfides. <b>2018</b> , 2927-2945	0
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793	Chitosan and gum arabic nanoparticles for heavy metal adsorption. <b>2018</b> , 28, 231-238	12
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768	Polymer Hydrogel-Clay (Nano)Composites. <b>2018</b> , 1-62		2
767	Polysaccharides of red alga <i>Gracilaria intermedia</i> : structure, antioxidant activity and rheological behavior. <b>2018</b> , 28, 178-186		11
766	Sonochemical synthesis, characterization and sorption study of Kaolin-Chitosan-TiO <sub>2</sub> ternary nanocomposite: Advantage over conventional method. <b>2018</b> , 217, 457-467		22
765	<i>Chlamydomonas angulosa</i> (Green Alga) and <i>Nostoc commune</i> (Blue-Green Alga) Microalgae-Cellulose Composite Aerogel Beads: Manufacture, Physicochemical Characterization, and Cd (II) Adsorption. <b>2018</b> , 11,		5
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742	Adsorptive removal and photocatalytic degradation of organic pollutants using metal oxides and their composites: A comprehensive review. <b>2019</b> , 272, 102009	228
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739	Voltammetric Detection of Lead Using Chitosan-tripolyphosphate Crosslinked Electrode. <b>2019</b> , 35, 1255-1261	4
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736	Extraction and Characterization of Alginate from an Edible Brown Seaweed () Harvested in the Romanian Black Sea. <b>2019</b> , 17,	19
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734	Thermoplastic foaming mechanism and Pb <sup>2+</sup> adsorption of poly(vinyl alcohol)/shell powder porous composite. <b>2019</b> , 40, 4658-4668	4
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720	Modeling of CO <sub>2</sub> -Activated Adsorption on Chitosan Hydrogel for Dye Removal in Aqueous Solution. <b>2019</b> , 52, 671-679	1
719	Advances in production and application of biochar from lignocellulosic feedstocks for remediation of environmental pollutants. <b>2019</b> , 292, 122030	133
718	Synthesis of chitosan/alumina composite by sol gel method for adsorption of procion blue MX-R dye from wastewater songket industry. <b>2019</b> , 1282, 012080	1
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522	Preparation of biocompatible nano-ZnO/chitosan microspheres with multi-functions of antibacterial, UV-shielding and dye photodegradation. <b>2020</b> , 146, 939-945	18
521	Evaluation of the performance of zirconia-multiwalled carbon nanotube nanoheterostructures in adsorbing As(III) from potable water from the perspective of physical chemistry and chemical physics with a special emphasis on approximate site energy distribution. <b>2020</b> , 242, 125234	6
520	Interaction of U(VI) with $\text{MnO}_2$ @layered double hydroxides by combined batch experiments and spectroscopy studies. <b>2020</b> , 7, 487-497	10
519	Chitosan and its char as fillers in cement-base composites: A case study. <b>2020</b> , 59, 186-192	14
518	Intelligent-activated carbon prepared from pistachio shells precursor for effective adsorption of heavy metals from industrial waste of copper mine. <b>2020</b> , 27, 1625-1639	19
517	Utilization of silica-chitosan nanocomposite for removal of $^{152}\text{Eu}$ and $^{154}\text{Eu}$ radionuclide from aqueous solutions. <b>2020</b> , 323, 439-455	13
516	Characterization of Tagaran natural clay and its efficiency for removal of cadmium (II) from Sulaymaniyah industrial zone sewage. <b>2020</b> , 27, 38384-38396	4
515	Adsorption behaviors of malachite green by using crosslinked chitosan/polyacrylic acid/bentonite composites with different ratios. <b>2020</b> , 17, 100560	21
514	Upon designing carboxyl methylcellulose and chitosan-derived nanostructured sorbents for efficient removal of Cd(II) and Cr(VI) from water. <b>2020</b> , 143, 640-650	19
513	Poly(ammonium/ pyridinium)-chitosan Schiff base as a smart biosorbent for scavenging of $\text{Cu}^{2+}$ ions from aqueous effluents. <b>2020</b> , 83, 106244	18
512	Preparation and adsorption properties of citrate-crosslinked chitosan salt microspheres by microwave assisted method. <b>2020</b> , 152, 1146-1156	18
511	Gold nanoparticles incorporated into cryogel walls for efficient nitrophenol conversion. <b>2020</b> , 247, 119089	10
510	Novel composite membranes for simultaneous catalytic degradation of organic contaminants and adsorption of heavy metal ions. <b>2020</b> , 237, 116364	20

509	Recent advances in carbon nanomaterial-based adsorbents for water purification. <b>2020</b> , 405, 213111	183
508	Magnetic metal oxide-organic framework material for ultrasonic-assisted sorption of titan yellow and rose bengal from aqueous solutions. <b>2020</b> , 392, 123635	39
507	Iron Oxide/Chitosan Magnetic Nanocomposite Immobilized Manganese Peroxidase for Decolorization of Textile Wastewater. <b>2020</b> , 8, 5	34
506	Ultra-High-Molecular-Weight polyethylene-based nanocomposite for removal of tetracycline in aqueous systems. <b>2020</b> , 8, 103630	4
505	In situ synthesis of p-n (BiO)4CO3(OH)2/Bi2O2CO3 internal polarized heterojunction for improved visible light photocatalytic performance. <b>2020</b> , 7, 015910	1
504	Polyvinyl Alcohol/Calcium Carbonate Nanocomposites as Efficient and Cost-Effective Cationic Dye Adsorbents. <b>2020</b> , 12,	1
503	Graphene oxide functionalized chitosan-magnetite nanocomposite for removal of Cu(II) and Cr(VI) from waste water. <b>2020</b> , 164, 4391-4402	20
502	Removal of cationic dye waste by nanofiber membrane immobilized with waste proteins. <b>2020</b> , 164, 3873-3884	26
501	Low-cost and high-wet-strength paper-based lignocellulosic adsorbents for the removal of heavy metal ions. <b>2020</b> , 158, 112926	7
500	Sustainable conversion of palm juice wastewater into extracellular polysaccharides for absorption of heavy metals from Saudi Arabian wastewater. <b>2020</b> , 277, 124252	13
499	Synergic adsorption performance of activated carbon prepared from Chinese prickly ash seeds. <b>2020</b> , 1-16	1
498	Functionalised poplar catkins aerogels: Synthesis, characterisation and application to adsorb Cu(II) and Pb(II) from wastewater. <b>2020</b> , 755, 137805	5
497	Removal and Separation of Heavy Metal Ions from Multicomponent Simulated Waters Using Silica/Polyethyleneimine Composite Microparticles. <b>2020</b> , 12, 37585-37596	18
496	Study on the adsorption property for Cu <sup>2+</sup> of Chitosan/Ploy (SSS- HEMA-AA) hydrogel. <b>2020</b> , 450, 012036	
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494	Process optimization and modeling of Pb(II) ions adsorption on chitosan-conjugated magnetite nano-biocomposite using response surface methodology. <b>2020</b> , 260, 127560	25
493	Extraction of activated epimedium glycosides in vivo and in vitro by using bifunctional-monomer chitosan magnetic molecularly imprinted polymers and identification by UPLC-Q-TOF-MS. <b>2020</b> , 219, 121350	6
492	Ab Initio Molecular Dynamics Simulations of Aqueous Glucosamine Solutions: Solvation Structure and Mechanism of Proton Transfer from Water to Amino Group. <b>2020</b> , 124, 6986-6997	3



491	Recent developments in surface modification of nano zero-valent iron (nZVI): Remediation, toxicity and environmental impacts. <b>2020</b> , 14, 100344	10
490	Utilization of zeolites as CO2 capturing agents: Advances and future perspectives. <b>2020</b> , 41, 101251	62
489	Ion-imprinted thermosensitive chitosan derivative for heavy metal remediation. <i>Carbohydrate Polymers</i> , <b>2020</b> , 248, 116732	10.3 5
488	Molecular Imprinting Polymer-Based QCM Sensor for Detection of $\beta$ -Pinene. <b>2020</b> , 840, 418-423	3
487	Removal of Organic Dyes by Using Cellulose-Chitosan-Nanowires Hybrid Composition Beads. <b>2020</b> , 1002, 468-477	1
486	Adsorbents for removal of cationic dye: nanocellulose reinforced biopolymer composites. <b>2020</b> , 27, 1	7
485	Biopolymer-functionalized carbon nanomaterials-based adsorbents. <b>2020</b> , 297-326	
484	The effect of Ca-bearing contents in chitosan on Pb, Cd and Cu adsorption and its adsorption mechanism. <b>2020</b> , 18, 1401-1414	1
483	Arsenate Adsorption on Fly Ash, Chitosan and Their Composites and Its Relations with Surface, Charge and Pore Properties of the Sorbents. <b>2020</b> , 13,	3
482	Review: Efficiently performing periodic elements with modern adsorption technologies for arsenic removal. <b>2020</b> , 27, 39888-39912	9
481	Nanometer-thick films of antimony oxide nanoparticles grafted on defective graphenes as heterogeneous base catalysts for coupling reactions. <b>2020</b> , 390, 135-149	3
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479	Effective separation of uranium from mine process effluents using chitosan as a recyclable natural adsorbent. <b>2020</b> , 253, 117493	17
478	Removal of dye waste by weak cation-exchange nanofiber membrane immobilized with waste egg white proteins. <b>2020</b> , 165, 2494-2507	3
477	Adsorption of Cu(II) ions from aqueous solution using pyridine-2,6-dicarboxylic acid crosslinked chitosan as a green biopolymer adsorbent. <b>2020</b> , 165, 2484-2493	8
476	Removal of Cu(II) by Fixed-Bed Columns Using Alg-Ch and Alg-ChS Hydrogel Beads: Effect of Operating Conditions on the Mass Transfer Zone. <b>2020</b> , 12,	3
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470	Antimicrobial and Photocatalytic Degradation Activities of Chitosan-coated Magnetite Nanocomposite. <b>2020</b> , 32, 1107	5
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465	Technological recommendations for the use of leaf litter based adsorption material to remove an oil slick from water bodies surface. <b>2020</b> , 791, 012076	2
464	Utilization of industrial by-product fungal biomass from <i>Aspergillus niger</i> and <i>Fusarium culmorum</i> to obtain biosorbents for removal of pesticide and metal ions from aqueous solutions. <b>2020</b> , 8, 104355	5
463	Modular Chitosan-Based Adsorbents for Tunable Uptake of Sulfate from Water. <b>2020</b> , 21,	8
462	Efficient Cu <sup>2+</sup> , Pb <sup>2+</sup> and Ni <sup>2+</sup> ion removal from wastewater using electrospun DTPA-modified chitosan/polyethylene oxide nanofibers. <b>2020</b> , 247, 116914	52
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460	Insight into the Loading and Release Properties of MCM-48/Biopolymer Composites as Carriers for 5-Fluorouracil: Equilibrium Modeling and Pharmacokinetic Studies. <b>2020</b> , 5, 11745-11755	11
459	Synthesis of Copper(II) Trimesinate Coordination Polymer and Its Use as a Sorbent for Organic Dyes and a Precursor for Nanostructured Material. <b>2020</b> , 12,	21
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454	Xe NMR: A powerful tool for studying the adsorption mechanism between mesoporous corn starch and palladium. <b>2020</b> , 161, 674-680	5
453	Unveiling Fabrication and Environmental Remediation of MXene-Based Nanoarchitectures in Toxic Metals Removal from Wastewater: Strategy and Mechanism. <b>2020</b> , 10,	30
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449	Solid solid phase change (SSPC) chitosan-g-mPEG fiber with improved mechanical performance via in-situ wet spinning process. <i>Carbohydrate Polymers</i> , <b>2020</b> , 240, 116313	10.3 7
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446	Development of Nanocarrier-Based Mitochondrial Chaperone, TRAP-1 Inhibitor to Combat Cancer Metabolism.. <b>2020</b> , 3, 4188-4197	2
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444	New Schiff-Base Modified Chitosan: Synthesis, Characterization, Computational, Thermal Study and Comparison on Adsorption of Copper(II) and Nickel(II) Metal Ions in Aqueous. <b>2020</b> , 28, 2523-2538	2
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442	Ultrasensitive Trace Determination of Cadmium Through a Green Synthesized Hybrid PVA-Chitosan Nanocomposite. <b>2020</b> , 15, 1903-1912	1
441	Anionic dye uptake via composite using chitosan-polyacrylamide hydrogel as matrix containing TiO nanoparticles; comprehensive adsorption studies. <b>2020</b> , 162, 150-162	29
440	Chitosan Deposited onto Fumed Silica Surface as Sustainable Hybrid Biosorbent for Acid Orange 8 Dye Capture: Effect of Temperature in Adsorption Equilibrium and Kinetics. <b>2020</b> , 124, 15312-15323	17
439	Cytotoxic aquatic pollutants and their removal by nanocomposite-based sorbents. <b>2020</b> , 258, 127324	29
438	Composite of chitosan and bentonite cladding Fe-Al bimetal: Effective removal of nitrate and by-products from wastewater. <b>2020</b> , 184, 109336	14

437	Egg By-Products as a Tool to Remove Direct Blue 78 Dye from Wastewater: Kinetic, Equilibrium Modeling, Thermodynamics and Desorption Properties. <b>2020</b> , 13,	12
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433	High surface area benzimidazole based porous covalent organic framework for removal of methylene blue from aqueous solutions. <b>2020</b> , 69, 712-718	10
432	Sustainable synthesis of zinc oxide nanoparticles for photocatalytic degradation of organic pollutant and generation of hydroxyl radical. <b>2020</b> , 307, 112931	31
431	Photopolymerized Films with ZnO and Doped ZnO Particles Used as Efficient Photocatalysts in Malachite Green Dye Decomposition. <b>2020</b> , 10, 1954	6
430	Coagulation of Chitin Production Wastewater from Shrimp Scraps with By-Product Chitosan and Chemical Coagulants. <b>2020</b> , 12,	13
429	Removal of Cadmium (II) from aqueous solution using tripolyphosphate cross-linked chitosan. <b>2020</b> , 8, 103842	12
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427	Review on recent progress in chitosan/chitin-carbonaceous material composites for the adsorption of water pollutants. <i>Carbohydrate Polymers</i> , <b>2020</b> , 247, 116690	10.3 69
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425	Magnetic Porous Controlled FeO-Chitosan Nanostructure: An Ecofriendly Adsorbent for Efficient Removal of Azo Dyes. <b>2020</b> , 10,	13
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418	Innovative benign-to-design functionalized adsorbents from biomass for rapid azo-dyes separation. <b>2020</b> , 241, 116633		4
417	Comparative evaluation for controlling release of niacin from protein- and cellulose-chitosan based hydrogels. <b>2020</b> , 150, 228-237		24
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413	Bioremediation of dyes using coconut parts via adsorption: a review. <b>2020</b> , 2, 1		10
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410	Facile preparation of polyacrylamide/chitosan/FeO composite hydrogels for effective removal of methylene blue from aqueous solution. <i>Carbohydrate Polymers</i> , <b>2020</b> , 234, 115882	10.3	53
409	Kinetic study of cationic dye adsorption on cellulose acetate butyrate/poly(L-lactic acid) composite beads. <b>2020</b> ,		1
408	Bio-Inspired Finger like Cu-Electrodes as an Effective Sensing Tool for Heavy Metal Ion in Aqueous Solution. <b>2020</b> , 167, 027526		6
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406	Synthesis of Chitosan-Polyvinyl Alcohol Biopolymers to Eliminate Fluorides from Water. <b>2020</b> , 10,		6
405	Regeneration and reuse of microbial extracellular polymers immobilised on a bed column for heavy metal recovery. <b>2020</b> , 171, 115472		28
404	Adsorption of Phosphate Dianions by Hybrid InorganicBiopolymer Polyelectrolyte Complexes: Experimental and Computational Studies. <b>2020</b> , 2, 899-910		10
403	On the taught new tricks of enzymes immobilization: An all-inclusive overview. <b>2020</b> , 152, 104613		90
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397	A review of the application of adsorbents for landfill leachate treatment: Focus on magnetic adsorption. <b>2020</b> , 731, 138863	55
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393	Efficient elimination of environmental pollutants through sorption-reduction and photocatalytic degradation using nanomaterials. <b>2020</b> , 14, 1124-1135	97
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391	Equilibrium and kinetics of phenol adsorption by crab shell chitosan. <b>2021</b> , 39, 415-426	4
390	Synthesis and characterization of poly(ethylene terephthalate) fibers grafted with N-(hydroxymethyl) acrylamide by free radical: its application in elimination of Congo red. <b>2021</b> , 78, 1535-1550	2
389	Chemically Modified Polysaccharides for Hexavalent Chromium Adsorption. <b>2021</b> , 50, 333-362	13
388	Advanced applications of Zr-based MOFs in the removal of water pollutants. <b>2021</b> , 267, 128863	29
387	Construction of Fe <sub>3</sub> O <sub>4</sub> @MXene composite nanofiltration membrane for heavy metal ions removal from wastewater. <b>2021</b> , 32, 1000-1010	16
386	Pristine and modified chitosan as solid catalysts for catalysis and biodiesel production: A minireview. <b>2021</b> , 167, 807-833	12
385	Construction of natural polymeric imprinted materials and their applications in water treatment: A review. <b>2021</b> , 403, 123643	20
384	Removal of Amitraz insecticide by heterogeneous UV-Fenton process using metals supported on chitosan beads as a catalyst. <b>2021</b> , 40, e13518	3

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382	A review of adsorptive remediation of environmental pollutants from aqueous phase by ordered mesoporous carbon. <b>2021</b> , 403, 126286	41
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380	A green, and eco-friendly bionanocomposite film (poly(vinyl alcohol)/TiO <sub>2</sub> /chitosan/chlorophyll) by photocatalytic ability, and antibacterial activity under visible-light irradiation. <b>2021</b> , 404, 112906	28
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378	Application of ion-exchange resin beads to produce magnetic adsorbents. <b>2021</b> , 75, 1187-1195	6
377	Experimental and DFT investigation of ceria-nanocomposite decorated AC derived from groundnut shell for efficient removal of methylene-blue from wastewater effluent. <b>2021</b> , 536, 147749	18
376	Applications of chitosan in environmental remediation: A review. <b>2021</b> , 266, 128934	52
375	The utilization of lobster shell to prepare low-cost biochar for high-efficient removal of copper and cadmium from aqueous: Sorption properties and mechanisms. <b>2021</b> , 9, 104703	11
374	The effect of pH on removal of toxic metal ions from aqueous solutions using composite sorbent based on Ti-Ca-Mg phosphates. <b>2021</b> , 40, 101830	4
373	Simultaneous adsorption of heavy metals and organic dyes by $\beta$ -Cyclodextrin-Chitosan based cross-linked adsorbent. <i>Carbohydrate Polymers</i> , <b>2021</b> , 255, 117486	10.3 56
372	Enhanced adsorption of Cr (VI) from aqueous solution by zirconium impregnated chitosan microspheres: mechanism and equilibrium. <b>2021</b> , 56, 2532-2545	3
371	Bioengineered chitosan-magnesium nanocomposite: A novel agricultural antimicrobial agent against <i>Acidovorax oryzae</i> and <i>Rhizoctonia solani</i> for sustainable rice production. <b>2021</b> , 168, 834-845	24
370	Adsorption, kinetics and thermodynamics studies of methyl orange dye sequestration through chitosan composites films. <b>2021</b> , 168, 383-394	47
369	Amidoxime modified chitosan based ion-imprinted polymer for selective removal of uranyl ions. <i>Carbohydrate Polymers</i> , <b>2021</b> , 256, 117509	10.3 26
368	Recent advances in adsorbents for the removal of phthalate esters from water: Material, modification, and application. <b>2021</b> , 409, 128127	9
367	Chitosan modifications for adsorption of pollutants - A review. <b>2021</b> , 408, 124889	84
366	Adsorption modeling and optimization of thorium (IV) ion from aqueous solution using chitosan/TiO <sub>2</sub> nanocomposite: Application of artificial neural network and genetic algorithm. <b>2021</b> , 15, 100400	3



365	Waste Cleaning Waste: Combining Alginate with Biowaste-Derived Substances in Hydrogels and Films for Water Cleanup. <b>2021</b> , 27, 660-668	5
364	Mixed starch/chitosan hydrogels: elastic properties as modelled through simulated annealing algorithm and their ability to strongly reduce yellow sunset (INS 110) release. <i>Carbohydrate Polymers</i> , <b>2021</b> , 255, 117526	10,3 3
363	Blooming Approach: One-Pot Biogenic Synthesis of TiO <sub>2</sub> Nanoparticles Using Piper Betle for the Degradation of Industrial Reactive Yellow 86 Dye. <b>2021</b> , 31, 1111-1119	6
362	Removal of Heavy Metals Using Bentonite Clay and Inorganic Coagulants. <b>2021</b> , 47-69	3
361	An ultrafast and clean method to manufacture poly(vinyl alcohol) bead foam products. <b>2021</b> , 32, 210-219	5
360	Understanding the effects of montmorillonite and sepiolite on the properties of solution-cast chitosan and chitosan/silk peptide composite films. <b>2021</b> , 70, 527-535	3
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358	Adsorption Evaluation for the Removal of Nickel, Mercury, and Barium Ions from Single-Component and Mixtures of Aqueous Solutions by Using an Optimized Biobased Chitosan Derivative. <b>2021</b> , 13,	8
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356	Electrospun nanofibers of biopolymers and biocomposites. <b>2021</b> , 297-350	0
355	Green Approaches to Prepare Polymeric Composites for Wastewater Treatment. <b>2021</b> , 531-570	0
354	Effluent treatment using polysaccharide. <b>2021</b> , 443-485	1
353	Technological Advancement in Photocatalytic Degradation of Dyes Using Metal-Doped Biopolymeric Composites Present and Future Perspectives. <b>2021</b> , 205-255	
352	Preparation and characterization of epichlorohydrin treated <i>Putranjiva roxburghii</i> seeds as a novel adsorbent: removal of Ni(II) from the artificial and real electroplating wastewaters. <b>2021</b> , 56, 2880-2894	1
351	Adsorption of Cationic Dye Using A newly Synthesized CaNiFe <sub>2</sub> O <sub>4</sub> /Chitosan Magnetic Nanocomposite: Kinetic and Isotherm Studies. <b>2021</b> , 29, 1835-1851	3
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
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