

# CITATION REPORT

List of articles citing

## KINETICS OF POLLUTANT SORPTION BY BIOSORBENTS: REVIEW

DOI: 10.1081/spm-100100009

Separation and Purification Reviews, 2000, 29, 189-232.

**Source:** <https://exaly.com/paper-pdf/32288558/citation-report.pdf>

**Version:** 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1035	Adsorptive and Membrane-Type Separations: A Bibliographical Update (2000). <b>2001</b> , 19, 821-849		3
1034	Fixed Bed Studies for the Sorption of Metal Ions onto Peat. <b>2003</b> , 81, 73-86		6
1033	Liquid-phase adsorption of dyes and phenols using pinewood-based activated carbons. <b>2003</b> , 41, 487-495		287
1032	Kinetics of sorptive removal of chromium(VI) from aqueous solutions by calcined Mg-Al-CO(3) hydrotalcite. <b>2003</b> , 37, 2875-82		307
1031	Kinetic analysis for the removal of a reactive dye from aqueous solution onto hydrotalcite by adsorption. <b>2003</b> , 37, 3023-33		140
1030	Interactions of metal ions with chitosan-based sorbents: a review. <b>2004</b> , 38, 43-74		1349
1029	Kinetic and equilibrium studies in removing lead ions from aqueous solutions by natural sepiolite. <b>2004</b> , 112, 115-22		136
1028	Adsorption of acid dyes from aqueous solutions onto acid-activated bentonite. <b>2004</b> , 276, 39-46		488
1027	Kinetic models of sorption: a theoretical analysis. <b>2004</b> , 276, 47-52		1491
1026	Intraparticle diffusion in single and multicomponent acid dye adsorption from wastewater onto carbon. <b>2004</b> , 103, 133-145		109
1025	Equilibrium and kinetic modeling of chromium(VI) biosorption by <i>Aeromonas caviae</i> . <b>2004</b> , 242, 93-104		194
1024	Chromium(VI) Removal from Aqueous Solutions by MgAlCO <sub>3</sub> Hydrotalcite: Sorption/Desorption Kinetic and Equilibrium Studies. <b>2004</b> , 43, 2209-2215		124
1023	Deploying a metal adsorbent in situ: a technique for indicating bioavailable Cd(II) in marine waters. <b>2004</b> , 38, 1586-94		3
1022	Adsorption of urea nitrogen onto chitosan coated dialdehyde cellulose under biocatalysis of immobilized urease: Equilibrium and kinetic. <b>2005</b> , 24, 65-72		36
1021	Removal of Cr(VI) from wastewater using rice bran. <b>2005</b> , 290, 61-8		141
1020	Photocatalytic degradation kinetics of di- and tri-substituted phenolic compounds in aqueous solution by TiO <sub>2</sub> /UV. <b>2005</b> , 58, 211-216		117
1019	Adsorption of transition metals in aqueous solutions by fluted pumpkin ( <i>Telfairia occidentalis</i> Hook f) waste. <b>2005</b> , 2, 1266-76		12

1018	Intraparticle diffusion of cadmium and zinc ions during adsorption from aqueous solution on activated carbon. <b>2005</b> , 80, 924-933	23
1017	Adsorption of dark coloured compounds from peach pulp by using granular activated carbon. <b>2005</b> , 68, 409-417	24
1016	Cadmium(II) Biosorption by <i>Aeromonas caviae</i> : Kinetic Modeling. <b>2005</b> , 40, 1293-1311	16
1015	Chromium(VI) sorptive removal from aqueous solutions by nanocrystalline akaganite. <b>2005</b> , 58, 65-73	118
1014	Uptake of chloride ion from aqueous solution by calcined layered double hydroxides: equilibrium and kinetic studies. <b>2006</b> , 40, 735-43	177
1013	Sorption of Zn(II), Pb(II), and Co(II) using natural sorbents: equilibrium and kinetic studies. <b>2006</b> , 40, 2645-58	295
1012	Removal of basic dye from water onto pristine and HCl-activated montmorillonite in fixed beds. <b>2006</b> , 194, 156-165	36
1011	Removal of organic pollutants from aqueous solutions by adsorbents prepared from an agroalimentary by-product. <b>2006</b> , 97, 2173-81	69
1010	Adsorption of 18-crown-6 from aqueous solution on granular activated carbon: a kinetic modeling study. <b>2006</b> , 299, 112-5	48
1009	Adsorptive removal of arsenites by a nanocrystalline hybrid surfactant-akaganite sorbent. <b>2006</b> , 302, 458-66	93
1008	Pseudo-second-order model for lead ion sorption from aqueous solutions onto palm kernel fiber. <b>2006</b> , 129, 137-42	270
1007	Removal of Mn(II) and Cd(II) from wastewaters by natural and modified clays. <b>2006</b> , 12, 133-146	58
1006	Adsorption of a reactive dye on chemically modified activated carbons--influence of pH. <b>2006</b> , 296, 480-9	237
1005	Removal of Copper (II) Ions from Aqueous Solutions using Na-mordenite. <b>2007</b> , 42, 1215-1230	15
1004	Kinetics of Basic Dye Adsorption onto Sphagnum Magellanicum Peat. <b>2007</b> , 25, 637-646	13
1003	The use of toxic solid waste for the adsorption of dyes from waste streams. <b>2007</b> , 82, 407-413	10
1002	Intraparticle diffusion processes during acid dye adsorption onto chitosan. <b>2007</b> , 98, 2897-904	648
1001	Kinetics of nitrates adsorption on Amberlite IRA 400 resin. <b>2007</b> , 206, 560-567	82

1000	Cr(III)-imprinted polymeric beads: Sorption and preconcentration studies. <b>2007</b> , 140, 110-6	127
999	Biosorption of nickel from protonated rice bran. <b>2007</b> , 143, 478-85	175
998	Combined photo-Fenton and biological treatment for Diuron and Linuron removal from water containing humic acid. <b>2007</b> , 147, 167-74	47
997	Biosorption of Reactive Red-120 dye from aqueous solution by native and modified fungus biomass preparations of <i>Lentinus sajor-caju</i> . <b>2007</b> , 149, 499-507	113
996	Identification of selective ion-exchange resin for fluoride sorption. <b>2007</b> , 308, 438-50	356
995	Activated Carbon Produced from Waste Wood Pallets: Adsorption of Three Classes of Dyes. <b>2007</b> , 184, 141-155	71
994	Evaluation of dry protonated calcium alginate beads for biosorption applications and studies of lead uptake. <b>2007</b> , 143, 115-28	43
993	Sorption dynamics and isotherm studies of methylene blue uptake on to palm kernel fibre. <b>2007</b> , 126, 35-43	90
992	Agricultural biomasses as sorbents of some trace metals. <b>2008</b> , 252, 1178-1188	84
991	Photocatalytic degradation of phenol and m-nitrophenol using irradiated TiO <sub>2</sub> in aqueous solutions. <b>2008</b> , 62, 559-564	89
990	Removal of Cr (VI) from aqueous solutions by the nonliving biomass of Alligator weed: kinetics and equilibrium. <b>2008</b> , 14, 823-830	26
989	Enhanced fluoride sorption using La(III) incorporated carboxylated chitosan beads. <b>2008</b> , 322, 375-83	160
988	Kinetics of metal ions adsorption at heterogeneous solid/solution interfaces: A theoretical treatment based on statistical rate theory. <b>2008</b> , 327, 36-43	17
987	Synthesis and sorption properties of a polyampholyte. <b>2008</b> , 68, 169-181	22
986	Selective sorption of fluoride using Fe(III) loaded carboxylated chitosan beads. <b>2008</b> , 129, 503-509	78
985	Effect of metal ion loaded in a resin towards fluoride retention. <b>2008</b> , 129, 645-653	39
984	Use of clinoptilolite for the removal of nickel ions from water: kinetics and thermodynamics. <b>2008</b> , 150, 587-95	149
983	Effect of EDTA on divalent metal adsorption onto grape stalk and exhausted coffee wastes. <b>2008</b> , 152, 476-85	53

982	Kinetic and thermodynamic studies of the biosorption of Cr(VI) by <i>Pinus sylvestris</i> Linn. <b>2008</b> , 153, 52-9	78
981	Defluoridation chemistry of synthetic hydroxyapatite at nano scale: equilibrium and kinetic studies. <b>2008</b> , 155, 206-15	227
980	The removal of basic dyes from aqueous solutions using agricultural by-products. <b>2008</b> , 157, 374-85	167
979	A general rate law equation for biosorption. <b>2008</b> , 38, 390-394	83
978	Evaluation of the use of loofa activated carbons as potential adsorbents for aqueous solutions containing dye. <b>2008</b> , 222, 357-367	81
977	New insights into pseudo-second-order kinetic equation for adsorption. <b>2008</b> , 320, 275-278	170
976	Adsorption kinetics for removal of thiocyanate from aqueous solution by calcined hydrotalcite. <b>2008</b> , 325, 38-43	36
975	Experimental binding of lead to a low cost on biosorbent: Nopal ( <i>Opuntia streptacantha</i> ). <b>2008</b> , 99, 1211-7	61
974	Effects of temperature and pH on adsorption of basic brown 1 by the bacterial biopolymer poly( $\gamma$ -glutamic acid). <b>2008</b> , 99, 1026-35	43
973	Uncertainty of preset-order kinetic equations in description of biosorption data. <b>2008</b> , 99, 3309-12	27
972	A new approach to modification of natural adsorbent for heavy metal adsorption. <b>2008</b> , 99, 2516-27	133
971	Comparison of biosorption properties of different kinds of fungi for the removal of Gryfalan Black RL metal-complex dye. <b>2008</b> , 99, 7730-41	115
970	Uptake of fluoride by nano-hydroxyapatite/chitosan, a bioinorganic composite. <b>2008</b> , 99, 8226-30	165
969	Bacterial biosorbents and biosorption. <b>2008</b> , 26, 266-91	1266
968	From Langmuir kinetics to first- and second-order rate equations for adsorption. <b>2008</b> , 24, 11625-30	234
967	Studies on Uranium Removal by the Extracellular Polysaccharide of a <i>Pseudomonas aeruginosa</i> Strain. <b>2008</b> , 12, 47-57	32
966	Description of desorption kinetics at the solid/solution interface based on the statistical rate theory. <b>2008</b> , 24, 13013-8	22
965	Comparison of Basic Dye Crystal Violet Removal from Aqueous Solution by Low-Cost Biosorbents. <b>2008</b> , 43, 3712-3731	64

964	Removal of Cd(II), Zn(II) and Pb(II) from aqueous solutions by brown marine macro algae: kinetic modelling. <b>2008</b> , 153, 493-501	124
963	Effect of Temperature on the Pb (II) Removal from Single Aqueous Solutions by a Locally Natural Mordenite: Equilibrium and Kinetic Modeling. <b>2008</b> , 43, 908-922	14
962	Removal of Methylene Blue from Aqueous Solution by Non-Living Biomass of Marine Algae and Freshwater Macrophyte. <b>2008</b> , 26, 853-863	5
961	Metal ions biosorption from dilute aqueous solution. <b>2008</b> , 34, 231	3
960	Impact of Structural Perturbation of Aluminum Hydroxides by Tannate on Arsenate Adsorption. <b>2009</b> , 73, 1664-1675	5
959	Biosorption of Congo Red from Aqueous Solution using Wheat Bran and Rice Bran: Batch Studies. <b>2009</b> , 44, 1452-1466	48
958	A modular strategy for processing of fruit and vegetable wastes into value-added products. <b>2009</b> , 286-353	8
957	Sorption of Pb(II) on Mg-Fe Layered Double Hydroxide. <b>2009</b> , 27, 1981-1988	34
956	Competitive Adsorption of Nickel and Copper Ions from Aqueous Solution Using Nonliving Biomass of the Marine Brown Alga <i>Laminaria japonica</i> . <b>2009</b> , 37, 663-668	10
955	Removal of the Azo Dye Congo Red from Aqueous Solutions by the Marine Alga <i>Porphyra yezoensis</i> Ueda. <b>2009</b> , 37, 793-798	23
954	Biosorption: critical review of scientific rationale, environmental importance and significance for pollution treatment. <b>2009</b> , 84, 13-28	808
953	Biosorption of Pb <sup>2+</sup> by original and protonated citrus peels: Equilibrium, kinetics, and mechanism. <b>2009</b> , 146, 211-219	101
952	Kinetics, equilibrium and thermodynamic study on removal of Cr (VI) from aqueous solutions using low-cost adsorbent Alligator weed. <b>2009</b> , 148, 217-225	71
951	Theoretical models of sorption kinetics including a surface reaction mechanism: a review. <b>2009</b> , 152, 2-13	589
950	Reinforcement of carboxyl groups in the surface of <i>Corynebacterium glutamicum</i> biomass for effective removal of basic dyes. <b>2009</b> , 100, 6301-6	20
949	Copper recovery from low concentration waste solution using Dowex G-26 resin. <b>2009</b> , 97, 237-242	31
948	Removal of fluoride from aqueous solution using protonated chitosan beads. <b>2009</b> , 161, 423-30	182
947	Degradation of immobilized azo dyes by <i>Klebsiella</i> sp. UAP-b5 isolated from maize bioadsorbent. <b>2009</b> , 161, 769-74	19

946	Arsenic removal using hydrous nanostructure iron(III)-titanium(IV) binary mixed oxide from aqueous solution. <b>2009</b> , 161, 884-92	188
945	Removal of chloride ion from aqueous solution by ZnAl-NO <sub>3</sub> layered double hydroxides as anion-exchanger. <b>2009</b> , 161, 1444-9	116
944	Adsorption of anionic dyes on ammonium-functionalized MCM-41. <b>2009</b> , 162, 133-9	177
943	Role of metal ion incorporation in ion exchange resin on the selectivity of fluoride. <b>2009</b> , 162, 920-30	85
942	Defluoridation of water using magnesia/chitosan composite. <b>2009</b> , 163, 618-24	133
941	Adsorption of bisphenol A from aqueous solution onto activated carbons with different modification treatments. <b>2009</b> , 164, 1275-80	219
940	Development of multifunctional chitosan beads for fluoride removal. <b>2009</b> , 167, 325-31	45
939	Removal of copper(II) from aqueous solution by pine and base modified pine cone powder as biosorbent. <b>2009</b> , 168, 909-17	115
938	Adsorption/electrosorption of catechol and resorcinol onto high area activated carbon cloth. <b>2009</b> , 168, 1459-66	64
937	Enhanced adsorption of phenol from water by a novel polar post-crosslinked polymeric adsorbent. <b>2009</b> , 169, 1022-8	76
936	Scavenging behaviour of meranti sawdust in the removal of methylene blue from aqueous solution. <b>2009</b> , 170, 357-65	155
935	Removal of Reactive Red 195 from aqueous solutions by adsorption on the surface of TiO <sub>2</sub> nanoparticles. <b>2009</b> , 170, 836-44	134
934	Assessment of the biosorption characteristics of a macro-fungus for the decolorization of Acid Red 44 (AR44) dye. <b>2009</b> , 171, 865-71	50
933	Ethylenediamine modified starch as biosorbent for acid dyes. <b>2009</b> , 172, 1665-70	38
932	Reactive and basic dyes removal by sorption onto chitosan derivatives. <b>2009</b> , 331, 32-9	147
931	Biomolecular adsorption behavior on spherical carbon aerogels with various mesopore sizes. <b>2009</b> , 331, 40-6	53
930	Biosorption of Reactive Blue 49 dye under batch and continuous mode using a mixed biosorbent of macro-fungus <i>Agaricus bisporus</i> and <i>Thuja orientalis</i> cones. <b>2009</b> , 148, 26-34	79
929	Selective separation of basic and reactive dyes by molecularly imprinted polymers (MIPs). <b>2009</b> , 149, 263-272	79

928	Copper and chromium(VI) removal by chitosan derivatives Equilibrium and kinetic studies. <b>2009</b> , 152, 440-448	159
927	Adsorption of Remazol Red 3BS from aqueous solutions using APTES- and cyclodextrin-modified HMS-type mesoporous silicas. <b>2009</b> , 346, 83-90	84
926	Adsorptive removal of phosphates from aqueous solutions. <b>2009</b> , 245, 357-371	100
925	Removal of Cr (VI) from aqueous solution by newspapers. <b>2009</b> , 249, 175-181	17
924	Study of the adsorption of phenol by two soils based on kinetic and isotherm modeling analyses. <b>2009</b> , 249, 914-921	48
923	Enhanced arsenic removal by hydrothermally treated nanocrystalline Mg/Al layered double hydroxide with nitrate intercalation. <b>2009</b> , 43, 2537-43	148
922	Kinetics of Adsorption at Solid/Solution Interfaces Controlled by Intraparticle Diffusion: A Theoretical Analysis. <b>2009</b> , 113, 12495-12501	47
921	Color removal from acid and reactive dye solutions by electrocoagulation and electrocoagulation/adsorption processes. <b>2009</b> , 81, 382-93	7
920	Functional Groups and Interactions Controlling the Adsorption of Bisphenol a onto Different Polymers. <b>2009</b> , 27, 723-734	2
919	Acyclic polyamine modified starch for amido black 10B removal in basic solution. <b>2010</b> , 16, 176-181	4
918	Sorption of Cu (II) ion from aqueous solution by scrap tyre. <b>2010</b> , 16, 83-94	8
917	Removal of Copper(II) Ions from Aqueous Solution Using Sphingomonas Paucimobolis Biomass. <b>2010</b> , 28, 137-147	12
916	Adsorption of As(III) Ions onto Iron-Containing Waste Sludge. <b>2010</b> , 28, 467-484	11
915	Use of Oxalic Acid-Modified Rice Husk for the Adsorption of Neutral Red from Aqueous Solutions. <b>2010</b> , 28, 641-656	4
914	Kinetics and thermodynamics study for electrosorption of NaCl onto carbon nanotubes and carbon nanofibers electrodes. <b>2010</b> , 485, 161-166	107
913	Study of chromium(VI) adsorption onto modified activated carbons with respect to analytical application. <b>2010</b> , 16, 279-286	32
912	Sorption of Cd(II) onto carbon-based materials comparative study. <b>2010</b> , 169, 7-13	25
911	Use of fly ash agglomerates for removal of arsenic. <b>2010</b> , 32, 361-6	16



910	An Adsorption Kinetic Model for Sulfur Dioxide Adsorption by ZL50 Activated Carbon. <b>2010</b> , 18, 223-230	7
909	Hg(II) Removal from Aqueous Solutions by Bacillus subtilis Biomass. <b>2010</b> , 38, NA-NA	3
908	Adsorption of Cr(VI) from Aqueous Solutions by Staphylococcus aureus Biomass. <b>2010</b> , 38, 500-505	22
907	ChemInform Abstract: Kinetics of Pollutant Sorption by Biosorbents. <b>2010</b> , 32, no-no	
906	Adsorptive removal of anionic dyes by modified nanoporous silica SBA-3. <b>2010</b> , 256, 3228-3233	105
905	Kinetic study on removal of copper(II) using goethite and hematite nano-photocatalysts. <b>2010</b> , 347, 277-81	165
904	Chitosan beads as barriers to the transport of azo dye in soil column. <b>2010</b> , 173, 144-50	22
903	Removal of Cr (VI) with wheat-residue derived black carbon: reaction mechanism and adsorption performance. <b>2010</b> , 175, 816-22	174
902	A novel agricultural waste adsorbent for the removal of lead (II) ions from aqueous solutions. <b>2010</b> , 182, 377-85	108
901	Adsorption kinetic character of copper ions onto a modified chitosan transparent thin membrane from aqueous solution. <b>2010</b> , 182, 408-15	108
900	Applicability of the film-diffusion model for description of the adsorption kinetics at the solid/solution interfaces. <b>2010</b> , 256, 5157-5163	25
899	Removal of nickel(II) ions from aqueous solutions using the natural clinoptilolite and preparation of nano-NiO on the exhausted clinoptilolite. <b>2010</b> , 257, 1524-1532	81
898	Equilibrium and kinetics of adsorption of fluoride onto zirconium impregnated cashew nut shell carbon. <b>2010</b> , 158, 451-457	164
897	Kinetics, isotherm and thermodynamic studies of Reactive Black 5 removal by acid acrylic resins. <b>2010</b> , 162, 919-926	105
896	Application of film-pore diffusion model for methylene blue adsorption onto plant leaf powders. <b>2010</b> , 163, 236-242	60
895	Comparison of Remazol Black B biosorptive properties of live and treated activated sludge. <b>2010</b> , 165, 184-193	31
894	Sorption of lead ion by layered double hydroxide intercalated with diethylenetriaminepentaacetic acid. <b>2010</b> , 366, 50-57	90
893	Dynamic studies and pseudo-second order modeling of copper(II) biosorption onto pine cone powder. <b>2010</b> , 251, 112-122	57

892	Cesium sorption by clinoptilolite-rich tuffs in batch and fixed-bed systems. <b>2010</b> , 258, 164-170	51
891	Adsorption kinetics, thermodynamics and isotherm of thiacalix[4]arene-loaded resin to heavy metal ions. <b>2010</b> , 259, 76-83	61
890	Heavy Metal Removal by Microbial Biosorbents. <b>2010</b> , 375-402	4
889	Removal of Toxic Cr(VI) Ions from Aqueous Solution Using Nano-Hydroxyapatite-Based Chitin and Chitosan Hybrid Composites. <b>2010</b> , 28, 49-64	39
888	Adsorption of Copper (II) onto Different Adsorbents. <b>2010</b> , 31, 918-930	30
887	Anion exchange kinetics of nanodimensional layered metal hydroxides: use of isoconversional analysis. <b>2010</b> , 114, 12858-69	12
886	Relating interactions of dye molecules with chitosan to adsorption kinetic data. <b>2010</b> , 26, 9617-26	57
885	Scale dependence of intragranular porosity, tortuosity, and diffusivity. <b>2010</b> , 46,	22
884	A novel two-resistance model for description of the adsorption kinetics onto porous particles. <b>2010</b> , 26, 802-8	19
883	Uptake of Cr (VI) by <i>Sphingomonas paucimobilis</i> Biomass from Aqueous Solutions. <b>2010</b> , 45, 681-686	1
882	Cadmium preconcentration with bean-coat as a green adsorbent with detection by electrothermal atomic absorption spectrometry. <b>2011</b> , 26, 1408	22
881	Kinetic Modeling of the Biosorption of Lead(II) from Aqueous Solutions by Solid Waste Resulting from the Olive Oil Production. <b>2011</b> , 56, 3053-3060	16
880	Adsorption of basic dyes by dried waste sludge: Kinetic, equilibrium and desorption studies. <b>2011</b> , 29, 10-19	14
879	Removal of textile dyes by sorption on low-cost sorbents. A case study: sorption of reactive dyes onto <i>Luffa cylindrica</i> . <b>2011</b> , 25, 54-64	16
878	Removal of Zinc (II) Ions from Aqueous Solutions Using Surfactant Modified Bamboo Sawdust. <b>2011</b> , 46, 2275-2282	8
877	Sorption of peat humic acids to multi-walled carbon nanotubes. <b>2011</b> , 45, 9276-83	94
876	Removal of Basic Dye Crystal Violet from Aqueous Solution by Cu(II)-Loaded Montmorillonite. <b>2011</b> , 46, 656-663	13
875	Desorption Kinetics at the Solid/Solution Interface: A Theoretical Description by Statistical Rate Theory for Close-to-Equilibrium Systems. <b>2011</b> , 115, 5732-5739	27

874	Sorption of Copper(II) and Nickel(II) Ions from Aqueous Solutions Using Calcium Oxide Activated Date (Phoenix dactylifera) Stone Carbon: Equilibrium, Kinetic, and Thermodynamic Studies. <b>2011</b> , 56, 3607-3619	32
873	Enhanced Cationic Dyes Removal from Aqueous Solution by Oxalic Acid Modified Rice Husk. <b>2011</b> , 56, 1882-1891	82
872	Equilibrium and Kinetic Studies of the Adsorption of Cr(III) Ions onto Amberlite XAD-8 Impregnated with Di-(2-ethylhexyl) Phosphoric Acid (DEHPA). <b>2011</b> , 29, 989-1005	7
871	Development of adsorbent from Teflon waste by radiation induced grafting: equilibrium and kinetic adsorption of dyes. <b>2011</b> , 193, 17-26	35
870	Amphiphilic hollow carbonaceous microspheres for the sorption of phenol from water. <b>2011</b> , 196, 270-7	31
869	Synthesis of ordered large-pore mesoporous carbon for Cr(VI) adsorption. <b>2011</b> , 46, 1424-1430	28
868	Pollutants adsorption from aqueous solutions: the role of the mean lifetime. <b>2011</b> , 66, 5922-5929	12
867	Adsorption characteristics of uranyl ions by manganese oxide coated sand in batch mode. <b>2011</b> , 288, 239-249	14
866	The sorption behavior of Cs + ion on clay minerals and zeolite in radioactive waste management: sorption kinetics and thermodynamics. <b>2011</b> , 288, 475-483	71
865	Biosorption of Ni (II) by Schizosaccharomyces pombe: kinetic and thermodynamic studies. <b>2011</b> , 34, 997-1005	7
864	Kinetic study of Cu(II) adsorption on nanosized BaTiO(3) and SrTiO(3) photocatalysts. <b>2011</b> , 185, 168-73	44
863	Dye adsorption on autohydrolyzed pine sawdust in batch and fixed-bed systems. <b>2011</b> , 171, 883-896	75
862	Carbon coated monolith, a mesoporous material for the removal of methyl orange from aqueous phase: Adsorption and desorption studies. <b>2011</b> , 171, 1124-1131	140
861	Application of Fenton process for decolorization of reactive black 5 from synthetic wastewater: Kinetics and thermodynamics. <b>2011</b> , 30, 540-548	40
860	Removal Of methylene blue dye from simulated wastewater by alginic acid fiber as adsorbent: Equilibrium, kinetic, and thermodynamic studies. <b>2011</b> , 89, 1545-1553	7
859	Adsorption of Pb(II) Ions from Aqueous Solutions by Date Bead Carbon Activated with ZnCl <sub>2</sub> . <b>2011</b> , 39, 392-399	33
858	Defluoridation of water using calcined magnesia/pullulan composite. <b>2011</b> , 166, 765-771	31
857	Treatment of real effluents from dyeing reactor: Experimental and modeling approach by adsorption onto chitosan. <b>2011</b> , 168, 577-585	69

856	Sorption of norfloxacin by lotus stalk-based activated carbon and iron-doped activated alumina: Mechanisms, isotherms and kinetics. <b>2011</b> , 171, 431-438	165
855	Adsorption characteristics of methylene blue by peanut husk in batch and column modes. <b>2011</b> , 265, 119-125	188
854	Enhanced metal removal from aqueous solution by Fenton activated macrophyte biomass. <b>2011</b> , 271, 20-28	20
853	Equilibrium, kinetic and thermodynamic studies on the biosorption of Cu(II) onto <i>Trametes versicolor</i> biomass. <b>2011</b> , 276, 310-316	31
852	Recovery, concentration and purification of phenolic compounds by adsorption: A review. <b>2011</b> , 105, 1-27	321
851	Synthesis, characterization and adsorption performance of a novel post-crosslinked adsorbent. <b>2011</b> , 354, 353-8	21
850	Kinetics of Phenol Adsorption onto Activated Carbon Fiber. <b>2011</b> , 356-360, 1524-1527	
849	The effect of process parameters on kinetics and mechanisms of $\text{Co}^{2+}$ removal by bone char. <b>2011</b> , 46, 1558-69	14
848	The role of external and internal mass transfer in the process of $\text{Cu}^{2+}$ removal by natural mineral sorbents. <b>2011</b> , 32, 933-43	12
847	Adsorption of congo red using ethylenediamine modified wheat straw. <b>2011</b> , 30, 195-206	38
846	Adsorption of Heavy Metal Ions by Chelate-Fiber Prepared by Chemical Surface Modification. <b>2011</b> , 308-310, 178-181	
845	Biosorption of lead and cadmium using marine algae. <b>2011</b> , 27, 579-594	49
844	Adsorption of Chloride Anion from Aqueous Solution by Calcined (Mg-Al) Hydrotalcites of Different Mg/Al Ratio. <b>2011</b> , 233-235, 420-426	1
843	Adsorption of Copper (II) Ions onto Surfactant-Modified Oil Palm Leaf Powder. <b>2011</b> , 32, 1641-1648	18
842	A Decolorization Technique with Spent Greek Coffee Grounds as Zero-Cost Adsorbents for Industrial Textile Wastewaters. <b>2012</b> , 5, 2069-2087	37
841	Commercial Coffee Wastes as Materials for Adsorption of Heavy Metals from Aqueous Solutions. <b>2012</b> , 5, 1826-1840	91
840	Sorption of $\text{Pb}^{2+}$ on Mg-Al-Fe Hydrotalcite-Like Compounds. <b>2012</b> , 573-574, 86-91	
839	Development of Functional Adsorbent From Textile Cotton Waste by Radiation Induced Grafting Process: Equilibrium and Kinetic Studies of Acid Dye Adsorption. <b>2012</b> , 47, 1937-1947	10

838	Investigations on the batch performance of cationic dyes adsorption by citric acid modified peanut husk. <b>2012</b> , 49, 41-56	12
837	Adsorption of Cu <sup>2+</sup> Ions from Aqueous Solution by NaOH Activated ZSM-5 Zeolite. <b>2012</b> , 482-484, 2568-2572	
836	Biosorption of Ni(II) from aqueous solutions by Syzygium cumini bark powder: Equilibrium and kinetic studies. <b>2012</b> , 47, 59-68	3
835	Adsorption of AsV in aqueous solutions on porous hematite prepared by thermal modification of a siderite - goethite concentrate. <b>2012</b> , 9, 512	27
834	Equilibrium and Kinetic Studies on the Removal of Basic Violet 10 from Aqueous Solutions Using Activated Carbons Prepared from Industrial Wastes. <b>2012</b> , 16, 86-96	5
833	Capacity of Wood Ash Filters to Remove Iron from Acid Mine Drainage: Assessment of Retention Mechanism. <b>2012</b> , 31, 273-286	27
832	Wastewater Treatment for Dyes and Heavy Metals Using Modified Pine Sawdust as Adsorbent. <b>2012</b> , 42, 1969-1982	18
831	Theoretical prediction of gas adsorption kinetics based on equilibrium data. <b>2012</b> , 90, 828-835	1
830	Removal of organic pollutants from industrial wastewater: performance evaluation of inorganic adsorbents based on pillared clays. <b>2012</b> , 39, 316-322	6
829	Biotechnological Potential of Soil Isolate, Flavobacterium mizutaii for Removal of Azo Dyes: Kinetics, Isotherm, and Microscopic Study. <b>2012</b> , 47, 1913-1925	15
828	Biosorption of heavy metals in polluted water, using different waste fruit cortex. <b>2012</b> , 37-39, 26-29	74
827	Removal of diethyl phthalate from aqueous phase using magnetic poly(EGDMA-VP) beads. <b>2012</b> , 229-230, 20-8	35
826	Kinetics and thermodynamics of heavy metal ions sequestration onto novel Nauclea diderrichii seed biomass. <b>2012</b> , 118, 576-9	37
825	Adsorption of a cationic dye from aqueous solution on mesoporous carbon-based honeycomb monolith. <b>2012</b> , 49, 326-336	12
824	Polyaniline/magnetite nanocapsules based nanocomposite for carbon dioxide adsorption. <b>2012</b> , 10, 486-493	21
823	Surface characterization and comparative adsorption properties of Cr(VI) on pyrolysed adsorbents of Acacia mangium wood and Phoenix dactylifera L. stone carbon. <b>2012</b> , 97, 19-28	28
822	Removal of a Basic Textile Dye from Aqueous Solution by Adsorption on Regenerated Clay. <b>2012</b> , 33, 303-312	19
821	Sorption removal of cephalixin by HNO <sub>3</sub> and H <sub>2</sub> O <sub>2</sub> oxidized activated carbons. <b>2012</b> , 55, 1959-1967	28

820	Synthesis and Characterization of a Few Amino-Functionalized Copolymeric Resins and Their Environmental Applications. <b>2012</b> , 51, 5677-5684	24
819	Competitive Adsorption of Neutral Red and Cu <sup>2+</sup> onto Pyrolytic Char: Isotherm and Kinetic Study. <b>2012</b> , 57, 2792-2801	23
818	Adsorption Thermodynamics and Kinetics of p-Xylene on Activated Carbon. <b>2012</b> , 57, 1551-1556	60
817	Fluoride Sorption by Metal Ion-Loaded Fibrous Protein. <b>2012</b> , 51, 2419-2427	28
816	Modeling 4-Chlorophenol Removal from Aqueous Solutions by Granular Activated Carbon. <b>2012</b> , 17, 289-300	17
815	Removal of uranium(VI) from aqueous solution using citric acid modified pine sawdust: batch and column studies. <b>2012</b> , 292, 585-595	36
814	Efficient uranium(VI) biosorption on grapefruit peel: kinetic study and thermodynamic parameters. <b>2012</b> , 292, 1303-1315	47
813	Removal of Bisphenol A and 17 $\beta$ -Estradiol by Single-Walled Carbon Nanotubes in Aqueous Solution: Adsorption and Molecular Modeling. <b>2012</b> , 223, 3281-3293	69
812	Adsorption behavior and mechanisms of norfloxacin onto porous resins and carbon nanotube. <b>2012</b> , 179, 112-118	192
811	Cu and Pb biosorption on Bacillus thio-parans strain U3 in aqueous solution: Kinetic and equilibrium studies. <b>2012</b> , 181-182, 352-359	38
810	Removal of dyes from aqueous solutions with untreated coffee residues as potential low-cost adsorbents: Equilibrium, reuse and thermodynamic approach. <b>2012</b> , 189-190, 148-159	172
809	Equilibrium and kinetic study of arsenic sorption by water-insoluble nanocomposite resin of poly[N-(4-vinylbenzyl)-N-methyl-d-glucamine]-montmorillonite. <b>2012</b> , 193-194, 21-30	40
808	The study of the potential capability of sugar beet pulp on the removal efficiency of two cationic dyes. <b>2012</b> , 90, 704-712	79
807	Macroporous resin purification behavior of phenolics and rosmarinic acid from Rabdusia serra (MAXIM.) HARA leaf. <b>2012</b> , 130, 417-424	88
806	Removal of acid dyes from aqueous media by adsorption onto amino-functionalized nanoporous silica SBA-3. <b>2012</b> , 94, 1-9	168
805	Microwave assisted solvent free green preparation and physicochemical characterization of surfactant-anchored cellulose and its relevance toward the effective adsorption of chromium. <b>2012</b> , 372, 88-98	24
804	Assesment of dimethyl phthalate removal from aqueous phase using barium hexaferrite containing magnetic beads. <b>2012</b> , 378, 167-74	9
803	Cr(VI) sorption by using clinoptilolite and bacteria loaded clinoptilolite rich mineral. <b>2012</b> , 152, 253-261	16

802	Equilibrium and kinetics study on hexavalent chromium adsorption onto diethylene triamine grafted glycidyl methacrylate based copolymers. <b>2012</b> , 209-210, 99-110	87
801	Decolorization of antraquinonic dye, Reactive Blue 114 from synthetic wastewater by Fenton process: Kinetics and thermodynamics. <b>2012</b> , 18, 1058-1062	53
800	A polysaccharide composite for water treatment to remove nitrates: Synthesis, properties, and utilization. <b>2012</b> , 85, 448-455	
799	Adsorption of reactive dyes from aqueous solutions by layered double hydroxides. <b>2012</b> , 87, 575-582	33
798	Kinetics and molecular mechanism of chromate uptake by dithiocarbamate functionalized starch. <b>2012</b> , 124, 2930-2936	5
797	Removal of cadmium (II) from aqueous solutions by adsorption using meranti wood. <b>2012</b> , 46, 221-241	28
796	Modeling of kinetics of pertechnetate removal by amino-functionalized glycidyl methacrylate copolymer. <b>2012</b> , 68, 507-528	8
795	Nitrate removal from water by quaternized pine bark using choline based ionic liquid analogue. <b>2013</b> , 88, 664-671	12
794	Large-pore mesostructured silicas templated from amphiphilic diblock copolymer PEO-b-PCL: synthesis, structure, and methyl orange adsorption. <b>2013</b> , 20, 927-936	3
793	Efficient removal of hexavalent chromium from aqueous solutions using autohydrolyzed Scots Pine ( <i>Pinus Sylvestris</i> ) sawdust as adsorbent. <b>2013</b> , 10, 1337-1348	10
792	Adsorption kinetic, isotherm and thermodynamic studies of Sr <sup>2+</sup> onto hexagonal tungsten oxide. <b>2013</b> , 298, 47-53	13
791	Phenol removal from wastewater by adsorption on zeolitic composite. <b>2013</b> , 20, 6367-81	22
790	Kinetic and Thermodynamic Studies of Ni(II) Adsorption onto Activated Carbon of <i>Abelmoschus manihot</i> from Aqueous Solutions. <b>2013</b> , 34, 923-931	3
789	Aminopolycarboxylic acid functionalized adsorbents for heavy metals removal from water. <b>2013</b> , 47, 4812-32	162
788	Valuation of Unmodified Rice Husk Waste as an Eco-Friendly Sorbent to Remove Mercury: a Study Using Environmental Realistic Concentrations. <b>2013</b> , 224, 1	32
787	Effects of Matrix and Functional Groups on Tylosin Adsorption onto Resins and Carbon Nanotubes. <b>2013</b> , 224, 1	17
786	Adsorption of pharmaceuticals onto trimethylsilylated mesoporous SBA-15. <b>2013</b> , 254-255, 345-353	55
785	Retention studies of chromium (VI) from aqueous solution on the surface of a novel carbonaceous material. <b>2013</b> , 6, 4547-4556	14

784	Adsorption behavior of light green anionic dye using cationic surfactant-modified wheat straw in batch and column mode. <b>2013</b> , 20, 5558-68	48
783	N-(2-Carboxybenzyl) grafted chitosan as adsorptive agent for simultaneous removal of positively and negatively charged toxic metal ions. <b>2013</b> , 244-245, 29-38	57
782	Acid modified carbon coated monolith for methyl orange adsorption. <b>2013</b> , 215-216, 747-754	99
781	Synthesis and characterization of L-tryptophan containing microbeads for removal of dimethyl phthalate from aqueous phase. <b>2013</b> , 109, 40-47	13
780	Preparation and evaluation of Ni-loaded activated carbon for enrichment of arsenic for analytical and environmental purposes. <b>2013</b> , 179, 1-9	13
779	Adjustment of the Biodiesel Free Fatty Acids Content by Means of Adsorption. <b>2013</b> , 27, 6763-6772	11
778	Biosorption of lead from acidic aqueous solutions using <i>Durivillaea antarctica</i> as adsorbent. <b>2013</b> , 46-47, 95-99	4
777	Comparative Sorption of Pb and Cd by Biochars and Its Implication for Metal Immobilization in Soils. <b>2013</b> , 224, 1	87
776	Biosorption of As (III) by non-living biomass of an arsenic-hypertolerant <i>Bacillus cereus</i> strain S22 isolated from a gold mining environment: equilibrium and kinetic study. <b>2013</b> , 171, 2247-61	19
775	Synthesis and adsorption performance of dithiocarbamate-modified glycidyl methacrylate starch. <b>2013</b> , 96, 320-5	22
774	Preparation and characteristics of medicinal activated carbon powders by CO <sub>2</sub> activation of peanut shells. <b>2013</b> , 247, 188-196	57
773	Sorption of Pb <sup>2+</sup> on mercapto functionalized sepiolite. <b>2013</b> , 90, 548-55	51
772	Preparation and evaluation of Fe-loaded activated carbon for enrichment of selenium for analytical and environmental purposes. <b>2013</b> , 90, 683-90	23
771	Graphite oxide/chitosan composite for reactive dye removal. <b>2013</b> , 217, 256-265	191
770	Sorption of europium by malt spent rootlets, a low cost biosorbent: effect of pH, kinetics and equilibrium studies. <b>2013</b> , 295, 7-13	34
769	Functionalization of graphite oxide with magnetic chitosan for the preparation of a nanocomposite dye adsorbent. <b>2013</b> , 29, 1657-68	280
768	Characteristics of Amine Surfactant Modified Peanut Shell and Its Sorption Property for Cr(VI). <b>2013</b> , 21, 1260-1268	19
767	Oxidation time effect of activated carbons for drug adsorption. <b>2013</b> , 234, 491-499	26



766	Characterization of modified sawdust, kinetic and equilibrium study about methylene blue adsorption in batch mode. <b>2013</b> , 30, 111-122	54
765	Synthesis, characterization and adsorptive properties of carbon with iron nanoparticles and iron carbide for the removal of As(V) from water. <b>2013</b> , 114, 1-7	26
764	Environmental friendly technology for the removal of pharmaceutical contaminants from wastewaters using modified chitosan adsorbents. <b>2013</b> , 222, 248-258	87
763	Mussel-inspired synthesis of polydopamine-functionalized graphene hydrogel as reusable adsorbents for water purification. <b>2013</b> , 5, 425-32	543
762	Optimization of chitosan and $\beta$ -cyclodextrin molecularly imprinted polymer synthesis for dye adsorption. <b>2013</b> , 91, 198-208	137
761	Removal of fluoride from drinking water by cellulose@hydroxyapatite nanocomposites. <b>2013</b> , 92, 269-75	145
760	Deactivation of nanoscale zero-valent iron by humic acid and by retention in water. <b>2013</b> , 34, 1625-35	13
759	Physicochemical properties of non-living water hyacinth ( <i>Eichhornia crassipes</i> ) and lesser duckweed ( <i>Lemna minor</i> ) and their influence on the As(V) adsorption processes. <b>2013</b> , 29, 459-475	14
758	Sorption thermodynamics and kinetics properties of tylosin and sulfamethazine on goethite. <b>2013</b> , 223, 59-67	75
757	Equilibrium and kinetic studies of C.I. Basic Blue 41 adsorption onto N, F-codoped flower-like TiO <sub>2</sub> microspheres. <b>2013</b> , 273, 448-456	33
756	Adsorption of heavy metal ions from aqueous solution by carboxylated cellulose nanocrystals. <b>2013</b> , 25, 933-43	275
755	Enhanced sorption of Mn <sup>2+</sup> ions from aqueous medium by inserting protoporphyrin as a pendant group in poly(vinylpyridine) network. <b>2013</b> , 221, 275-282	18
754	On the simultaneous adsorption of a reactive dye and hexavalent chromium from aqueous solutions onto grafted chitosan. <b>2013</b> , 407, 432-41	52
753	Synthesis and characterization of multi-amino-functionalized cellulose for arsenic adsorption. <b>2013</b> , 92, 380-7	97
752	Mixed Surface Reaction and Diffusion-Controlled Kinetic Model for Adsorption at the Solid/Solution Interface. <b>2013</b> , 117, 8310-8317	73
751	Adsorption of Brilliant Green dye from aqueous solution onto red clay. <b>2013</b> , 228, 54-62	136
750	Studies on removal of boron from aqueous solution by fly ash agglomerates. <b>2013</b> , 310, 93-101	38
749	Adsorption of Fluoride from Water Using Sintered Clay-Hydroxyapatite Composites. <b>2013</b> , 139, 995-1003	24

748	Modeling studies for the removal of methylene blue from aqueous solution using Acacia fumosa seed shell activated carbon. <b>2013</b> , 1, 1108-1116	26
747	Effect of the Operative Variables on the Treatment of Wastewater Polluted with Phthalo Blue by H <sub>2</sub> O <sub>2</sub> /UV Process. <b>2013</b> , 224, 1	6
746	Study of the Sorption Behavior of Hibiscus sabdariffa Anthocyanins on a Macroporous Resin. <b>2013</b> , 36, 579-590	5
745	Surface Modification of Hydrophobic Resin with Tricaprylmethylammonium Chloride for the Removal of Trace Hexavalent Chromium. <b>2013</b> , 52, 11685-11694	39
744	Kinetics and Mechanism of Cr(VI) Sorption from Aqueous Solution on a Modified Lignocellulosic Material. <b>2013</b> , 30, 672-680	5
743	Removal of low concentration Cr(VI) from aqueous solution by modified wheat straw. <b>2013</b> , 129, 1555-1562	7
742	Adsorption of crystal violet from aqueous solution by chemically modified phoenix tree leaves in batch mode. <b>2013</b> , 1-11	2
741	A Novel Pinus Tabulaeformis Based Adsorbent for the Removal of Malachite Green. <b>2013</b> , 48, 2804-2816	1
740	Mercury(II) removal with modified magnetic chitosan adsorbents. <b>2013</b> , 18, 6193-214	113
739	Copper removal from aqueous systems with coffee wastes as low-cost materials. <b>2013</b> , 1, 25004	5
738	Equilibrium and kinetic studies of phosphate removal from solution onto a hydrothermally modified oyster shell material. <b>2013</b> , 8, e60243	23
737	New Biosorbent Materials: Selectivity and Bioengineering Insights. <b>2014</b> , 2, 419-440	20
736	Study on heavy metals biosorption ability of Saccharomyces cerevisiae. <b>2014</b> , 2,	1
735	Oxidation of the insecticide dimethoate by Fenton and solar photo-Fenton processes using a lab-scale continuous flow reactor. <b>2014</b> , 52, 6784-6791	7
734	Preparation of Pectin-Based Biosorbents for Cadmium and Lead Ions Removal. <b>2014</b> , 49, 1679-1688	13
733	Adsorption of Nickel on Electric Arc Furnace Slag: Batch and Column Studies. <b>2014</b> , 49, 388-397	19
732	Synthesis of a New Amberlite 7HP Sorbent Impregnated by Nano Manganese Dioxide and Its Applications for Uranium Separation. <b>2014</b> , 47, 131-146	9
731	Steam activation, characterisation and adsorption studies of activated carbon from maize tassels. <b>2014</b> , 30, 473-490	14

730	Treatment of Colored Effluent using Surfactant Modified Bamboo Leaves Powder. <b>2014</b> , 49, 221-231	3
729	Synthesis of AMIMCl/AM Copolymer Hydrogel and its Adsorption Effect on Permanganate Anion. <b>2014</b> , 49, 915-923	5
728	Equilibrium and kinetic studies of Cd <sup>2+</sup> biosorption by the brown algae <i>Sargassum fusiforme</i> . <b>2014</b> , 9, e95242	10
727	Poly(itaconic acid)-grafted chitosan adsorbents with different cross-linking for Pb(II) and Cd(II) uptake. <b>2014</b> , 30, 120-31	135
726	Sorption kinetics of sulphate ions on quaternary ammonium-modified rice straw. <b>2014</b> , 20, 2603-2609	12
725	Removal of Cd(II) from aqueous solution by exploring the biosorption characteristics of <i>Gaobabian</i> ( <i>Onosma bracteatum</i> ). <b>2014</b> , 2, 1155-1164	30
724	The role of chitosan as nanofiller of graphite oxide for the removal of toxic mercury ions. <b>2014</b> , 113, 467-76	85
723	Biosorption of methyl orange from aqueous solutions using cationic surfactant-modified wheat straw in batch mode. <b>2014</b> , 52, 6145-6155	42
722	Adsorption/desorption of a dye by a chitosan derivative: Experiments and phenomenological modeling. <b>2014</b> , 248, 327-336	66
721	Geosorption of As(III) from aqueous solution by red clays: kinetic studies. <b>2014</b> , 92, 596-601	6
720	Adsorption of soluble oil from water to graphene. <b>2014</b> , 21, 6495-505	13
719	Kinetics and equilibrium adsorption of copper(II) and nickel(II) ions from aqueous solution using sawdust xanthate modified with ethanediamine. <b>2014</b> , 24, 868-875	18
718	Responses of kinetics and capacity of phenanthrene sorption on sediments to soil organic matter releasing. <b>2014</b> , 21, 8271-83	8
717	Removal of methylene blue from aqueous solutions by chemically modified bamboo. <b>2014</b> , 111, 225-31	129
716	Solid phase extraction of hazardous metals from aqua system by nanoparticle-modified agrowaste composite adsorbents. <b>2014</b> , 2, 675-684	11
715	Titanium(IV) hydrate based on chitosan template for defluoridation from aqueous solution. <b>2014</b> , 293, 46-54	24
714	Removal of dorzolamide from biomedical wastewaters with adsorption onto graphite oxide/poly(acrylic acid) grafted chitosan nanocomposite. <b>2014</b> , 152, 399-406	96
713	Kinetics and Controlling Factors of Phenanthrene Adsorption on Limestone. <b>2014</b> , 31, 88-97	6

712	Study on the removal of hexavalent chromium using a new biosorbent. <b>2014</b> , 52, 4810-4817	3
711	Adsorption of Congo red from aqueous solutions using cationic surfactant modified wheat straw in batch mode: Kinetic and equilibrium study. <b>2014</b> , 45, 2578-2583	99
710	Magnetic composite an environmental super adsorbent for dye sequestration [A review]. <b>2014</b> , 1-2, 36-49	106
709	Adsorption of nickel ions from seawater by modified chitosan. <b>2014</b> , 52, 5663-5672	9
708	Fast Removal of Cr(VI) from Aqueous Solution Using Cr(VI)-Imprinted Polymer Particles. <b>2014</b> , 53, 4434-4441	53
707	Reuse of Solid Waste in Adsorption of the Textile Dye. <b>2014</b> , 55, 173-178	4
706	Adsorption study using optimised 3D organised mesoporous silica coated with Fe and Al oxides for specific As(III) and As(V) removal from contaminated synthetic groundwater. <b>2014</b> , 198, 101-114	22
705	Competitive adsorption of acid dyes from aqueous solution on diethylenetriamine-modified chitosan beads. <b>2014</b> , 131, n/a-n/a	4
704	Synthesis of surface coated hydroxyapatite powders for fluoride removal from aqueous solution. <b>2014</b> , 268, 306-315	43
703	Process Optimization for Microcystin-LR Adsorption onto Nano-sized Montmorillonite K10: Application of Response Surface Methodology. <b>2014</b> , 225, 1	13
702	Study of Cr(VI) adsorption onto nitrogen-enriched activated carbon from waste medium density fiberboard. <b>2014</b> , 48, 713-725	13
701	Biosorption of uranyl ions from aqueous solution by <i>Saccharomyces cerevisiae</i> cells immobilized on clinoptilolite. <b>2014</b> , 301, 537-543	5
700	The Use of Natural Sorbents for Spilled Crude Oil and Diesel Cleanup from the Water Surface. <b>2014</b> , 225, 1	30
699	Immobilization of Guanazyl Functional Groups on Silica for Solid-Phase Extraction of Metal Ions. <b>2014</b> , 47, 2665-2681	4
698	Adsorption of Reactive Blue 114 dye by using a new adsorbent: Pomelo peel. <b>2014</b> , 20, 1079-1084	69
697	Adsorption and bio-sorption of nickel ions and reuse for 2-chlorophenol catalytic ozonation oxidation degradation from water. <b>2014</b> , 266, 19-25	43
696	Advanced low-swelling chitosan/graphite oxide-based biosorbents. <b>2014</b> , 128, 46-49	21
695	Impact of molecular size on two antibiotics adsorption by porous resins. <b>2014</b> , 45, 955-961	14

694	Application of natural clay as a potential adsorbent for the removal of a toxic dye from aqueous solutions. <b>2014</b> , 52, 6703-6711	12
693	Efficient adsorption of phenanthrene by simply synthesized hydrophobic MCM-41 molecular sieves. <b>2014</b> , 311, 825-830	51
692	Removal of 99Tc(VII) by organo-modified bentonite. <b>2014</b> , 95, 294-302	20
691	The study of zinc ions binding to casein. <b>2014</b> , 120, 21-7	35
690	Magnetic modification of microporous carbon for dye adsorption. <b>2014</b> , 430, 166-73	68
689	Adsorption of copper to different biogenic oyster shell structures. <b>2014</b> , 311, 264-272	61
688	Removal of Tetrachloroethylene from Aqueous Solutions by Adsorption on Clay Minerals. <b>2015</b> , 33, 355-367	7
687	Copper adsorption on Porozhinskoe manganese ore. <b>2015</b> , 51, 1029-1033	2
686	Adsorption of Silver Nanoparticles on Glass Beads Surface. <b>2015</b> , 33, 731-737	7
685	Defluoridation of waters using low-cost HNO <sub>3</sub> activated carbon derived from stems of Senna Occidentalis plant. <b>2015</b> , 18, 420	21
684	Kinetics and Mechanisms of Phosphorus Adsorption in Soils from Diverse Ecological Zones in the Source Area of a Drinking-Water Reservoir. <b>2015</b> , 12, 14312-26	18
683	Potential biosorbent derived from Calligonum polygonoides for removal of methylene blue dye from aqueous solution. <b>2015</b> , 2015, 562693	26
682	Dyeing Theory. <b>2015</b> , 209-247	1
681	Adsorption of Pb(II) from Aqueous Solution by Mesoporous MCM-48. <b>2015</b> , 36, 393-401	4
680	Fabrication of modified porous starch for the removal of vanadate from aqueous solutions. <b>2015</b> , 53, 2100-2105	4
679	Low-cost hemp biomaterials for nickel ions removal from aqueous solutions. <b>2015</b> , 209, 209-218	39
678	Confined Flocculation of Ionic Pollutants by Poly(L-dopa)-Based Polyelectrolyte Complexes in Hydrogel Beads for Three-Dimensional, Quantitative, Efficient Water Decontamination. <b>2015</b> , 31, 6351-66	60
677	Bioadsorption of a reactive dye from aqueous solution by municipal solid waste. <b>2015</b> , 7, 44-50	18

676	Effect of micropore and mesopore structure on CO <sub>2</sub> adsorption by activated carbons from biomass. <b>2015</b> , 30, 156-166	37
675	Equilibrium and kinetic studies on the adsorption of humic acid onto cellulose and powdered activated carbon. <b>2015</b> , 1-12	4
674	Efficient removal of mercury from aqueous solutions and industrial effluent. <b>2015</b> , 50, 1230-40	6
673	The rationale for alternative fertilization: Equilibrium isotherm, kinetics and mass transfer analysis for urea-nitrogen adsorption from cow urine. <b>2015</b> , 1, 90-97	32
672	Kinetic, equilibrium and thermodynamic studies on sorption of uranium and thorium from aqueous solutions by a selective impregnated resin containing carminic acid. <b>2015</b> , 286, 152-63	102
671	Nanoadsorbents for pollutants removal: A review. <b>2015</b> , 203, 159-168	261
670	Kinetic and equilibrium studies of adsorption of $\beta$ -glucuronidase by clinoptilolite-rich minerals. <b>2015</b> , 50, 221-229	12
669	Effectively designed molecularly imprinted polymers for selective isolation of the antidiabetic drug metformin and its transformation product guanylurea from aqueous media. <b>2015</b> , 866, 27-40	50
668	Synthesis and characterization of modified carrageenan microparticles for the removal of pharmaceuticals from aqueous solutions. <b>2015</b> , 127, 256-65	35
667	Equilibrium and kinetics studies on As(V) and Sb(V) removal by Fe <sup>2+</sup> -doped Mg-Al layered double hydroxides. <b>2015</b> , 151, 303-9	28
666	Characterization of <i>Acidosasa edulis</i> shoot shell and its biosorption of copper ions from aqueous solution. <b>2015</b> , 3, 357-364	19
665	Kinetic modelling of TOC removal by H <sub>2</sub> O <sub>2</sub> /UV, photo-Fenton and heterogeneous photocatalysis processes to treat dye-containing wastewater. <b>2015</b> , 12, 3255-3262	16
664	Study of chromium(VI) removal from aqueous solution using nitrogen-enriched activated carbon based bamboo processing residues. <b>2015</b> , 5, 784-790	33
663	Adsorption of acid and basic dyes by sludge-based activated carbon: Isotherm and kinetic studies. <b>2015</b> , 22, 103-113	10
662	Silver Adsorption Enhancement from Aqueous and Photographic Waste Solutions by Mercerized Coconut Fiber. <b>2015</b> , 50, 937-946	14
661	Sorption Behavior of Y(III) from Chloride Medium with Polymer Composites Containing Di-2-ethyl Hexyl Phosphoric Acid and Multiwall Carbon Nanotube. <b>2015</b> , 50, 463-470	4
660	Kinetic model selection and the Hill model in geochemistry. <b>2015</b> , 12, 2545-2558	22
659	Facile synthesis of chitosan derivatives and <i>Arthrobacter</i> sp. biomass for the removal of europium(III) ions from aqueous solution through biosorption. <b>2015</b> , 102, 286-297	26

658	Study on bioaccumulation and biosorption of mercury by living marine macroalgae: Prospecting for a new remediation biotechnology applied to saline waters. <b>2015</b> , 281, 759-770	85
657	Impact of humic acid coating on sorption of naphthalene by biochars. <b>2015</b> , 94, 946-954	27
656	Cellulose based cationic adsorbent fabricated via radiation grafting process for treatment of dyes waste water. <b>2015</b> , 132, 444-51	42
655	Response surface modeling and optimization of microcystin-LR removal from aqueous phase by polyacrylamide/sodium alginate/hontmorillonite superabsorbent nanocomposite. <b>2015</b> , 56, 1121-1139	5
654	Sorption and desorption of hexavalent chromium using a novel brown marine algae Sargassum myriocystum. <b>2015</b> , 32, 2031-2046	21
653	Kinetics of Cr(VI) Removal by Iron Filings in Some Soils. <b>2015</b> , 24, 554-572	5
652	Sorption behavior of tylosin and sulfamethazine on humic acid: kinetic and thermodynamic studies. <b>2015</b> , 5, 58865-58872	38
651	Uptake of Arsenic(V) Using Alumina Functionalized Highly Ordered Mesoporous SBA-15 (Alx-SBA-15) as an Effective Adsorbent. <b>2015</b> , 60, 1300-1310	24
650	High uptake of Cu <sup>2+</sup> , Zn <sup>2+</sup> or Ni <sup>2+</sup> on calcined MgAl hydroxides from aqueous solutions: Changing adsorbent structures. <b>2015</b> , 272, 17-27	28
649	A Prebiotic Chemistry Experiment on the Adsorption of Nucleic Acids Bases onto a Natural Zeolite. <b>2015</b> , 45, 289-306	10
648	Adsorption studies of Pb(II) and Cu(II) ions on mesoporous carbon nitride functionalized with melamine-based dendrimer amine. <b>2015</b> , 12, 2649-2664	63
647	Enhanced adsorption of norfloxacin on modified TiO <sub>2</sub> particles prepared via surface molecular imprinting technique. <b>2015</b> , 1-11	3
646	Single-step modification of chitosan for toxic cations remediation from aqueous solution. <b>2015</b> , 56, 1099-1109	24
645	Graphene Aerogels Decorated with FeOOH Nanoparticles for Efficient Adsorption of Arsenic from Contaminated Waters. <b>2015</b> , 7, 9758-66	146
644	Silver Ion Adsorption using Alkali and Organosilane Modified Coconut Pith Biosorbents. <b>2015</b> , 12, 283-302	4
643	Recovery of rare earths from weathered crust elution-deposited rare earth ore without ammonia-nitrogen pollution: I. leaching with magnesium sulfate. <b>2015</b> , 153, 58-65	66
642	Factorial design analysis for optimizing the removal of cesium and strontium ions on synthetic nano-sized zeolite. <b>2015</b> , 55, 133-144	36
641	Nutrient and Removal Kinetics Impacts on Salt Phytoremediation by Atriplex patula and Typha angustifolia. <b>2015</b> , 141, 04014059	9

640	Properties and performance of mesoporous activated carbons from scrap tyres, bituminous wastes and coal. <b>2015</b> , 151, 83-90	54
639	Treatment of Cr(VI) in aqueous solution by NiAl and CoAl layered double hydroxides: Equilibrium and kinetic studies. <b>2015</b> , 8, e75-e80	12
638	Graphene-Diatom Silica Aerogels for Efficient Removal of Mercury Ions from Water. <b>2015</b> , 7, 11815-23	155
637	A dendrimer-like hyper branched chitosan beads toward fluoride adsorption from water. <b>2015</b> , 78, 280-6	28
636	Removal of beta-blockers from aqueous media by adsorption onto graphene oxide. <b>2015</b> , 537, 411-20	106
635	Characterization of binding properties of silver ion-imprinted polymers with equilibrium and kinetic models. <b>2015</b> , 212, 133-141	11
634	Preparation of PVA-chitosan blend nanofiber and its dye removal ability from colored wastewater. <b>2015</b> , 16, 1861-1869	74
633	Versatile Cellulose-Based Carbon Aerogel for the Removal of Both Cationic and Anionic Metal Contaminants from Water. <b>2015</b> , 7, 25875-83	97
632	CO <sub>2</sub> adsorption using TiO <sub>2</sub> composite polymeric membranes: A kinetic study. <b>2015</b> , 35, 163-171	12
631	Adsorption kinetics of dyes and their mixtures with Co <sub>3</sub> O <sub>4</sub> /ZrO <sub>2</sub> composites. <b>2015</b> , 3, 2684-2696	36
630	Influence of pH and ionic strength on Cd, Cu and Pb removal from water by adsorption in Na-bentonite. <b>2015</b> , 118, 61-67	63
629	Adsorption of aqueous Cd(II) and Pb(II) on activated carbon nanopores prepared by chemical activation of doum palm shell. <b>2015</b> , 4, 458	38
628	Investigation of temperature effect on surface-interaction and diffusion of aqueous-solution/porous-solid adsorption systems using diffusion-binding model. <b>2015</b> , 3, 129-139	11
627	Selective removal of dibenzothiophene from commercial diesel using manganese dioxide-modified activated carbon: a kinetic study. <b>2015</b> , 36, 98-105	19
626	Alternative use of cross-linked polyallylamine (known as Sevelamer pharmaceutical compound) as biosorbent. <b>2015</b> , 442, 49-59	9
625	Novel one-pot synthesis of dicarboxylic acids mediated alginate-zirconium biopolymeric complex for defluoridation of water. <b>2015</b> , 120, 60-8	33
624	Biotransformation dynamics of chromium(VI) detoxification using <i>Aspergillus flavus</i> system. <b>2015</b> , 75, 103-109	11
623	Adsorption/desorption of cationic dye on surfactant modified mesoporous carbon coated monolith: Equilibrium, kinetic and thermodynamic studies. <b>2015</b> , 21, 369-377	71



622	Adsorption isotherms and kinetics of cationic and anionic dyes on three-dimensional reduced graphene oxide macrostructure. <b>2015</b> , 21, 1191-1196	123
621	Modified activated carbons from potato peels as green environmental-friendly adsorbents for the treatment of pharmaceutical effluents. <b>2015</b> , 97, 135-144	77
620	Phosphate removal from water by modified pine bark using ionic liquid analog. <b>2015</b> , 54, 1881-1892	3
619	Chemistry of defluoridation by one-pot synthesized dicarboxylic acids mediated polyacrylamide-zirconium complex. <b>2015</b> , 262, 224-234	27
618	Chromium(III) biosorption onto spent grains residual from brewing industry: equilibrium, kinetics and column studies. <b>2015</b> , 12, 1591-1602	35
617	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
616	Adsorption of blue copper on a natural and electrochemically treated bentonite. <b>2016</b> , 6, 11-23	3
615	Kinetics and Equilibrium Isotherm Modeling: Graphene-Based Nanomaterials for the Removal of Heavy Metals From Water. <b>2016</b> , 79-109	9
614	Enhanced Adsorption of Orange II Using Cationic Surfactant Modified Biochar Pyrolyzed from Cornstalk. <b>2016</b> , 2016, 1-7	14
613	Study of the Adsorption of Arsenic (III and V) by Magnetite Nanoparticles Synthesized via AACVD. <b>2016</b> , 19, 103-112	24
612	Factorial Design Methodological Approach for Enhanced Cadmium Ions Bioremoval by Opuntia Biomass. <b>2016</b> , 44, 959-966	7
611	Adsorption of Nickel Ions on Oxygen-Functionalized Carbons. <b>2016</b> , 39, 715-722	6
610	Hydrogel-Assisted Transfer of Graphene Oxides into Nonpolar Organic Media for Oil Decontamination. <b>2016</b> , 55, 6853-7	28
609	Hydrogel-Assisted Transfer of Graphene Oxides into Nonpolar Organic Media for Oil Decontamination. <b>2016</b> , 128, 6967-6971	8
608	A comparative study of lead adsorption by activated Khaya Ivoresnsis and Pycanthus Angolensis sawdust. <b>2016</b> , 6, 593-601	1
607	Thermodynamic and kinetic studies of effective adsorption of 2,4,6-trichlorophenol onto calcine Mg/Al-CO <sub>3</sub> layered double hydroxide. <b>2016</b> , 31, 1211-1218	7
606	Adsorption kinetics and equilibrium study of nitrogen species onto radiata pine (Pinus radiata) sawdust. <b>2016</b> , 74, 402-15	7
605	Zinc removal from aqueous solution using novel adsorbent MISCBA. <b>2016</b> , 6, 377-388	5

604	Adsorption of heavy metals from aqueous solutions by Mg-Al-Zn mingled oxides adsorbent. <b>2016</b> , 74, 1644-1657	9
603	Removal of Lead(II) Ions from Aqueous Solution Using L. Seed Husk Ash as a Biosorbent. <b>2016</b> , 45, 984-92	9
602	The Adsorption Mechanism of Modified Activated Carbon on Phenol. <b>2016</b> , 67, 03040	6
601	Influence of pH on arsenic(III) removal by fly ash. <b>2016</b> , 51, 2612-2619	9
600	Reusable polyethylenimine-coated polysulfone/bacterial biomass composite fiber biosorbent for recovery of Pd(II) from acidic solutions. <b>2016</b> , 302, 545-551	33
599	Preparation and characterization of aspartic acid doped polypyrrole for the efficient removal of Cr(VI) from aqueous solution. <b>2016</b> , 11, 162-173	13
598	Preparation, characterization and application of polystyrene based activated carbons for Ni(II) removal from aqueous solution. <b>2016</b> , 149, 75-85	31
597	Evaluation of Eggshell-Rich Compost as Biosorbent for Removal of Pb(II) from Aqueous Solutions. <b>2016</b> , 227, 1	20
596	High removal efficiency of Hg(II) and MeHg(II) from aqueous solution by coconut pith Equilibrium, kinetic and mechanism analyses. <b>2016</b> , 4, 2487-2499	18
595	Converting obsolete copy paper to porous carbon materials with preeminent adsorption performance for tetracycline antibiotic. <b>2016</b> , 6, 13312-13322	10
594	Simultaneous adsorptive removal of fluoride and phosphate by magnesiaβullulan composite from aqueous solution. <b>2016</b> , 6, 35966-35976	13
593	Electrocoagulated Metal Hydroxide Sludge for Fluoride and Arsenic Removal in Aqueous Solution: Characterization, Kinetic, and Equilibrium Studies. <b>2016</b> , 227, 1	9
592	Biosorptive uptake of ibuprofen by chemically modified Parthenium hysterophorus derived biochar: Equilibrium, kinetics, thermodynamics and modeling. <b>2016</b> , 92, 158-172	74
591	3D MoS <sub>2</sub> Composition Aerogels as Chemosensors and Adsorbents for Colorimetric Detection and High-Capacity Adsorption of Hg <sup>2+</sup> . <b>2016</b> , 4, 3398-3408	103
590	Synthesis of mesoporous carbon nanospheres for highly efficient adsorption of bulky dye molecules. <b>2016</b> , 51, 7016-7028	17
589	Simple and effective chitosan based films for the removal of Hg from waters: Equilibrium, kinetic and ionic competition. <b>2016</b> , 300, 217-229	46
588	Adsorption of anionic azo dye Congo Red from aqueous solution by Cationic Modified Orange Peel Powder. <b>2016</b> , 220, 540-548	109
587	Membrane-Adsorption Integrated Systems/Processes. <b>2016</b> , 343-373	2

586	Phosphorus Removal from Aqueous Solution by Pre- or Post-Modified Biochars Derived from Agricultural Residues. <b>2016</b> , 227, 1	25
585	Sorption of Heavy Metals by Engineered Nanomaterials. <b>2016</b> , 182-204	
584	Adsorption kinetics studies of an anti-inflammatory drug Mesalamine using Unsaturated Polyester Resin (UPR). <b>2016</b> , 224, 219-226	6
583	Optimization of process variables and mechanism of arsenic (V) adsorption onto cellulose nanocomposite. <b>2016</b> , 224, 290-302	20
582	Purification of Polyphenolic Extracts from Natural Sources. <b>2016</b> , 221-259	
581	Aldehyde-functionalized porous nanocellulose for effective removal of heavy metal ions from aqueous solutions. <b>2016</b> , 6, 92648-92654	29
580	Adsorption of nickelocene and ruthenocene on mesoporous silica MCM-48 and activated carbon supports in supercritical carbon dioxide. <b>2016</b> , 117, 138-146	5
579	A Targeted "Capture" and "Removal" Scavenger toward Multiple Pollutants for Water Remediation based on Molecular Recognition. <b>2016</b> , 3, 1500289	24
578	Efficient removal of toxic hexavalent chromium from aqueous solution using threonine doped polypyrrole nanocomposite. <b>2016</b> , 13, 88-99	17
577	Facile microfluidic synthesis of copolymer hydrogel beads for the removal of heavy metal ions. <b>2016</b> , 51, 10375-10385	12
576	Highly efficient entrapment of U(VI) by using porous magnetic Ni <sub>0.6</sub> Fe <sub>2.4</sub> O <sub>4</sub> micro-particles as the adsorbent. <b>2016</b> , 65, 367-377	38
575	Effect of nitrate and amine functionalization on the adsorption properties of a macroporous resin towards tetracycline antibiotic. <b>2016</b> , 66, 143-153	22
574	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
573	Removal of basic violet 3 dye from aqueous media using a steel industry residue as solid phase. <b>2016</b> , 4, 4184-4193	11
572	Kinetic and Conformational Insights of Protein Adsorption onto Montmorillonite Revealed Using in Situ ATR-FTIR/2D-COS. <b>2016</b> , 32, 7719-29	52
571	The enrichment of Pt(IV) ions on Dowex-1X8 and Purolite S-920 ion exchangers from aqueous solutions and their determination using slurry sampling and direct solid sampling graphite furnace atomic absorption spectrometry techniques. <b>2016</b> , 8, 5818-5825	6
570	Enhancing adsorptive removal of sulfate by metal layered double hydroxide functionalized Quartz-Albitophire iron ore waste: preparation, characterization and properties. <b>2016</b> , 6, 67630-67642	33
569	Preparation and properties of silica gel with immobilized formazan group. <b>2016</b> , 89, 590-597	3

568	Adsorption of Antibiotics on Graphene and Biochar in Aqueous Solutions Induced by $\text{H}_2\text{O}_2$ Interactions. <b>2016</b> , 6, 31920	135
567	Adsorptive modelling of toxic cations and ionic dyes onto cellulosic extract. <b>2016</b> , 2, 1-15	12
566	A Discussion about Surface Diffusion Mechanism for the Adsorption of Basic Green 4 Dye on to Various Nano Structured Carbon Materials. <b>2016</b> , 14, 165-174	
565	Adsorption of cinnabarinic acid from culture fluid with magnetic microbeads. <b>2016</b> , 30, 88-96	1
564	Preparation of dialdehyde cellulose nanocrystal as an adsorbent for creatinine. <b>2016</b> , 94, 1435-1441	11
563	Comparative study on metal biosorption by two macroalgae in saline waters: single and ternary systems. <b>2016</b> , 23, 11985-97	15
562	Batch and column test analyses for hardness removal using natural and homoionic clinoptilolite: breakthrough experiments and modeling. <b>2016</b> , 2, 183-197	8
561	Mechanism of strontium sorption by the mixed nickel-potassium ferrocyanide based on hydrated titanium dioxide. <b>2016</b> , 307, 577-590	8
560	Microwave-assisted preparation of $\text{SO}_4^{2-}$ intercalated hydrotalcites for ammonia-nitrogen removal. <b>2016</b> , 6, 12753-12760	4
559	Simultaneous removal of phenol and cyanide from aqueous solution by adsorption onto surface modified activated carbon prepared from coconut shell. <b>2016</b> , 9, 233-245	39
558	Thorium removal from weakly acidic solutions using titan yellow-impregnated XAD-7 resin beads: kinetics, equilibrium and thermodynamic studies. <b>2016</b> , 309, 761	26
557	Use of Mg-Al oxide for boron removal from an aqueous solution in rotation: Kinetics and equilibrium studies. <b>2016</b> , 165, 280-285	16
556	Adsorption performance of creatinine on dialdehyde nanofibrillated cellulose derived from potato residues. <b>2016</b> , 32, 208-14	1
555	Removal of sulfamethazine antibiotics using cow manure-based carbon adsorbents. <b>2016</b> , 13, 973-984	21
554	Separation of dissolved oil from aqueous solution by sorption onto acetylated lignocellulosic biomass-equilibrium, kinetics and mechanism studies. <b>2016</b> , 4, 864-881	19
553	Preparation of molecularly imprinted solid-phase microextraction fiber for the selective removal and extraction of the antiviral drug abacavir in environmental and biological matrices. <b>2016</b> , 913, 63-75	64
552	Arsenic removal from aqueous solutions by adsorption onto hydrous iron oxide-impregnated alginate beads. <b>2016</b> , 35, 277-286	104
551	Enzymatic phosphorylation of hair keratin enhances fast adsorption of cationic moieties. <b>2016</b> , 85, 476-86	7

550	High removal performance of dissolved oil from aqueous solution by sorption using fatty acid esterified pineapple leaves as novel sorbents. <b>2016</b> , 6, 13710-13722	9
549	Removal of Cr(VI) from aqueous solutions by adsorption on MnO <sub>2</sub> . <b>2016</b> , 310, 270-7	139
548	Surfactant modification of banana trunk as low-cost adsorbents and their high benzene adsorptive removal performance from aqueous solution. <b>2016</b> , 6, 24738-24751	12
547	Preparation of a novel carboxylate-rich wheat straw through surface graft modification for efficient separation of Ce(III) from wastewater. <b>2016</b> , 97, 195-203	29
546	Simultaneous removal of benzene polycarboxylic acids from water by polypyrrole composite filled with a cellulosic agricultural waste. <b>2016</b> , 4, 1869-1879	23
545	Lead adsorption from aqueous solutions by a granular adsorbent prepared from phoenix tree leaves. <b>2016</b> , 6, 25393-25400	15
544	Water purification using different waste fruit cortexes for the removal of heavy metalsPeer review under responsibility of Taibah University.View all notes. <b>2016</b> , 10, 700-708	53
543	A mechanistic approach for superoxide radicals and singlet oxygen mediated enhanced photocatalytic dye degradation by selenium doped ZnS nanoparticles. <b>2016</b> , 6, 928-936	57
542	Activated carbons produced by pyrolysis of waste potato peels: Cobalt ions removal by adsorption. <b>2016</b> , 490, 74-83	132
541	Equilibrium and kinetic study of chromium sorption on resins with quaternary ammonium and N-methyl- d -glucamine groups. <b>2016</b> , 284, 395-404	41
540	Evaluation of synthetic Birnessite utilization as a sorbent for cobalt and strontium removal from aqueous solution. <b>2016</b> , 284, 1373-1385	53
539	Evaluation of kinetic and thermodynamic parameters in adsorption of lead (Pb <sup>2+</sup> ) and chromium (Cr <sup>3+</sup> ) by chemically modified macadamia (Macadamia integrifolia). <b>2016</b> , 57, 17738-17747	2
538	A review of biochar as a low-cost adsorbent for aqueous heavy metal removal. <b>2016</b> , 46, 406-433	703
537	Removal of total petroleum hydrocarbon from water using attapulgite fiber silica aerogel composite. <b>2016</b> , 57, 17463-17472	5
536	Batch adsorption studies on the removal of malachite green from water by chemically modified Azolla pinnata. <b>2016</b> , 57, 14632-14646	19
535	Dithiocarbamate-modified starch derivatives with high heavy metal adsorption performance. <b>2016</b> , 136, 30-7	81
534	Optimized graphene oxide foam with enhanced performance and high selectivity for mercury removal from water. <b>2016</b> , 301, 453-61	70
533	Removal of hexavalent chromium from aqueous solutions by use of chemically modified sour cherry stones. <b>2016</b> , 57, 10776-10789	8

532	Microwave-hydrothermal method for the synthesis of composite materials for removal of arsenic from water. <b>2016</b> , 23, 469-76	14
531	A critical review of the applicability of Avrami fractional kinetic equation in adsorption-based water treatment studies. <b>2016</b> , 57, 15813-15825	29
530	Removal of phosphate from industrial wastewater using uncalcined MgAl-NO <sub>3</sub> layered double hydroxide: batch study and modeling. <b>2016</b> , 57, 15920-15931	27
529	Preparation of thiacalix[4]arenetetrasulfonate-modified D201 resin and its adsorption of heavy metal ions. <b>2016</b> , 57, 12350-12363	4
528	Evaluation of the effectiveness of microparticle-embedded cryogel system in removal of 17 $\beta$ -estradiol from aqueous solution. <b>2016</b> , 57, 15570-15579	2
527	Batch and fixed bed column studies on removal of Orange G acid dye by a weak base functionalized polymer. <b>2016</b> , 57, 14708-14727	15
526	Adsorption of Cu(II), Ni(II) and Pb(II) ions onto polyamine-polyurea polymer modified with pyromellitic dianhydride: kinetic, isotherm and thermodynamic studies. <b>2016</b> , 57, 11173-11183	8
525	Biosorption of U(VI) from aqueous systems by malt spent rootlets. Kinetic, equilibrium and speciation studies. <b>2016</b> , 13, 285-296	12
524	Multi-parametric adsorption effects of the reactive dye removal with commercial activated carbons. <b>2016</b> , 213, 381-389	74
523	Adsorption potential of 2,4-dichlorophenol onto cationic surfactant-modified phoenix tree leaf in batch mode. <b>2016</b> , 57, 6333-6346	7
522	Adsorption of heavy metals from industrial wastewater by using polyacrylic acid hydrogel. <b>2016</b> , 57, 2466-2480	19
521	Biosorption studies on copper (II) and cadmium (II) using pretreated rice straw and rice husk. <b>2017</b> , 24, 8903-8915	24
520	An insight into the removal of fluoroquinolones in activated sludge process: Sorption and biodegradation characteristics. <b>2017</b> , 56, 263-271	58
519	An experimental and quantum chemical study of removal of utmostly quantified heavy metals in wastewater using coconut husk: A novel approach to mechanism. <b>2017</b> , 98, 139-149	35
518	A macroalgae-based biotechnology for water remediation: Simultaneous removal of Cd, Pb and Hg by living <i>Ulva lactuca</i> . <b>2017</b> , 191, 275-289	47
517	Effective impregnation for the preparation of magnetic mesoporous carbon: application to dye adsorption. <b>2017</b> , 92, 1899-1911	32
516	Adsorptive removal of Rhodamine B from aqueous solution by nanoporous polydivinylbenzene. <b>2017</b> , 75, 1651-1658	6
515	Amberlite IRA-400 and IRA-743 chelating resins for the sorption and recovery of molybdenum(VI) and vanadium(V): Equilibrium and kinetic studies. <b>2017</b> , 169, 496-507	21

514	One pot synthesis of chitosan grafted quaternized resin for the removal of nitrate and phosphate from aqueous solution. <b>2017</b> , 104, 1517-1527	59
513	Fluoride adsorption properties of cerium-containing bone char. <b>2017</b> , 197, 63-73	36
512	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
511	Comparative CO <sub>2</sub> Adsorption Analysis in Pure and Amine-Modified Composite Membranes. <b>2017</b> , 56, 1158-1166	1
510	Template-free Synthesis of Large-Pore-Size Porous Magnesium Silicate Hierarchical Nanostructures for High-Efficiency Removal of Heavy Metal Ions. <b>2017</b> , 5, 2774-2780	40
509	Sorption of uranium(VI) compounds on fibrous anion exchanger surface from aqueous solutions. <b>2017</b> , 79, 270-277	8
508	Determination of an engineering model for exchange kinetics of strong acid cation resin for the ion exchange of sodium chloride & sodium bicarbonate solutions. <b>2017</b> , 17, 197-206	15
507	Tunable Large Pore Mesoporous Carbons for the Enhanced Adsorption of Humic Acid. <b>2017</b> , 33, 6769-6777	24
506	The promise of a specially-designed graft copolymer of acrylic acid onto cellulose as selective sorbent for heavy metal ions. <b>2017</b> , 103, 261-267	17
505	Enantioselective uptake, translocation and degradation of the chiral pesticides tebuconazole and imazalil by <i>Phragmites australis</i> . <b>2017</b> , 229, 362-370	46
504	Insight into the adsorption kinetics models for the removal of contaminants from aqueous solutions. <b>2017</b> , 74, 25-48	462
503	Removal of U(VI) from Aqueous Solution by Amino Functionalized Flake Graphite Prepared by Plasma Treatment. <b>2017</b> , 5, 4073-4085	83
502	A kinetic approach on hexavalent chromium removal with metallic iron. <b>2017</b> , 203, 937-941	11
501	Adsorption isotherms and kinetics of arsenic removal from aqueous solution by Mg <sub>3</sub> Al layered double hydroxide intercalated with nitrate ions. <b>2017</b> , 120, 703-714	24
500	High removal efficacy of Hg(II) and MeHg(II) ions from aqueous solution by organoalkoxysilane-grafted lignocellulosic waste biomass. <b>2017</b> , 171, 19-30	27
499	Internal pore decoration with polydopamine nanoparticle on polymeric ultrafiltration membrane for enhanced heavy metal removal. <b>2017</b> , 314, 38-49	144
498	A new rate equation for desorption at the solid/solution interface. <b>2017</b> , 671, 1-6	8
497	Highly efficient simultaneous biosorption of Hg <sup>2+</sup> , Pb <sup>2+</sup> and Cu <sup>2+</sup> by Live yeast <i>Yarrowia lipolytica</i> 70562 following response surface methodology optimization: Kinetic and isotherm study. <b>2017</b> , 48, 162-172	72

- 496 Dual shelled Fe<sub>3</sub>O<sub>4</sub>/polydopamine hollow microspheres as an effective Eu(III) adsorbent. **2017**, 5, 2947-2958 73
- 495 Application of modified magnetic nanomaterial for optimization of ultrasound-enhanced removal of Pb ions from aqueous solution under experimental design: Investigation of kinetic and isotherm. **2017**, 36, 409-419 42
- 494 Defluoridation studies using active carbon derived from the barks of Ficus racemosa plant. **2017**, 193, 58-66 55
- 493 Fast and selective removal of Cr(VI) from aqueous solutions by a novel magnetic Cr(VI) ion-imprinted polymer. **2017**, 248, 767-774 42
- 492 A Review on the Removal of Nitrate from Water by Adsorption on Organic-Inorganic Hybrid Biocomposites. **2017**, 433-477 2
- 491 Periodic mesoporous organosilica with low thiol density is a safer material to trap Hg(II) from water. **2017**, 5, 5043-5053 12
- 490 Rational design of hierarchical macroporous/mesoporous magnesium silicate for highly efficient removal of organic dye and Pb<sup>2+</sup>. **2017**, 7, 47225-47234 11
- 489 Removal of Congo red and Brilliant green dyes from aqueous solution using flower shaped ZnO nanoparticles. **2017**, 5, 5420-5428 49
- 488 Chemical assembly of a titanium oxide layer on microporous silica. **2017**, 87, 1786-1793 2
- 487 Role of additives in the matrix of solvent encapsulated beads on its yttrium sorption from aqueous streams. **2017**, 52, 2274-2283
- 486 Biosorptive uptake of arsenic(V) by steam activated carbon from mung bean husk: equilibrium, kinetics, thermodynamics and modeling. **2017**, 7, 4479-4495 8
- 485 Integrated adsorption-membrane filtration process for antibiotic removal from aqueous solution. **2017**, 321, 259-269 57
- 484 Carboxymethylated Cellulose Fibers as Low-Cost and Renewable Adsorbent Materials. **2017**, 56, 14940-14948 22
- 483 High-performance functionalized polyethylene fiber for the capture of trace uranium in water. **2017**, 314, 2393-2403 8
- 482 Studying the sorption kinetics on peat ions of iron(III) and copper(II) from wastewater. **2017**, 72, 196-199 9
- 481 Bioadsorption of Heavy Metals. **2017**, 233-255 6
- 480 Iron removal in highly contaminated acid mine drainage using passive biochemical reactors. **2017**, 76, 1833-1843 15
- 479 Potassium fulvate-functionalized graft copolymer of polyacrylic acid from cellulose as a promising selective chelating sorbent. **2017**, 7, 20178-20185 8



478	Interaction Study Between Humic and Phosphate: Possible Environmental Remediation for Domestic Wastewater. <b>2017</b> , 228, 1	4
477	In-situ cleaning of heavy metal contaminated plastic water pipes using a biomass derived ligand. <b>2017</b> , 5, 3622-3631	10
476	Chemical synthesis of polypyrrole film and its adsorption capacity for aromatic polycarboxylic acids. <b>2017</b> , 18, 1064-1072	7
475	Biosorption of lead ions from aqueous effluents by rapeseed biomass. <b>2017</b> , 39, 110-124	71
474	Potassium fulvate-modified graft copolymer of acrylic acid onto cellulose as efficient chelating polymeric sorbent. <b>2017</b> , 94, 771-780	16
473	Adsorptive recovery of geniposidic acid from gardenia yellow pigment extraction wastewater by anion exchange: equilibrium, thermodynamics and mechanism modeling and simulation. <b>2017</b> , 43, 2215-2235	6
472	Removal of Lead from Water Using Calcium Alginate Beads Doped with Hydrazine Sulphate-Activated Red Mud as Adsorbent. <b>2017</b> , 2017, 4650594	16
471	Extraction of Phosphate from Polluted Waters Using Calcium Alginate Beads Doped with Active Carbon Derived from Plant as Adsorbent. <b>2017</b> , 2017, 3610878	18
470	Adsorption of Ni(II) onto Chemically Modified Spent Grated Coconut (Cocos Nucifera). <b>2017</b> , 205, 012009	
469	Identificação dos mecanismos de sorção em zeólita NaY e sílica gel. <b>2017</b> , 22,	
468	Molecularly imprinted particle embedded composite cryogel for selective tetracycline adsorption. <b>2018</b> , 200, 155-163	48
467	Study of the gadolinium sorption on the C100 ion-exchange resin for the development of the antineutrino detector targets. <b>2018</b> , 315, 459-473	
466	Production of activated carbon from walnut shell by CO <sub>2</sub> activation in a fluidized bed reactor and its adsorption performance of copper ion. <b>2018</b> , 20, 1676-1688	19
465	Removal of methylene blue from aqueous solution by modified bamboo hydrochar. <b>2018</b> , 157, 300-306	95
464	Study of Cr(VI) adsorption onto magnetite nanoparticles using synchrotron-based X-ray absorption spectroscopy. <b>2018</b> , 45, 907-913	3
463	Equilibrium, Kinetic and Optimization Studies for the Adsorption of Tartrazine in Water onto Activated Carbon from Pecan Nut Shells. <b>2018</b> , 229, 1	11
462	Surface sodium lignosulphonate-immobilized sawdust particle as an efficient adsorbent for capturing Hg from aqueous solution. <b>2018</b> , 517, 9-17	9
461	Removal of fluoride from water using H <sub>2</sub> O <sub>2</sub> -treated fine red mud doped in Zn-alginate beads as adsorbent. <b>2018</b> , 6, 906-916	29

460	Sorption of crude oil by enzyme-modified corn stalk vs. chemically treated corn stalk. <b>2018</b> , 255, 324-332	10
459	Removal of cadmium in aqueous solution using wheat straw biochar: effect of minerals and mechanism. <b>2018</b> , 25, 8688-8700	70
458	Removal of Cr(VI) by corn stalk based anion exchanger: the extent and rate of Cr(VI) reduction as side reaction. <b>2018</b> , 539, 424-432	32
457	Facile one-pot preparation of nitrogen-doped ultra-light graphene oxide aerogel and its prominent adsorption performance of Cr(VI). <b>2018</b> , 338, 62-71	122
456	Photocatalytic degradation of the herbicide imazapyr: do the initial degradation rates correlate with the adsorption kinetics and isotherms?. <b>2018</b> , 8, 985-995	23
455	Kinetics of the adsorption of scandium and cerium ions in sulfuric acid solutions on a nanomodified activated carbon. <b>2018</b> , 253, 277-283	34
454	Surface modification of phosphoric acid activated carbon by using non-thermal plasma for enhancement of Cu(II) adsorption from aqueous solutions. <b>2018</b> , 197, 156-169	47
453	Recovery of Au(III) from an aqueous solution by aminopropyltriethoxysilane-functionalized lignocellulosic based adsorbents. <b>2018</b> , 123, 106-114	30
452	Synthesis of nano alumina for defluoridation of drinking water. <b>2018</b> , 13, 109-120	16
451	Fibrous polyethylenimine/polyvinyl chloride crosslinked adsorbent for the recovery of Pt(IV) from acidic solution: Adsorption, desorption and reuse performances. <b>2018</b> , 176, 360-369	19
450	Study of Interaction Between Glyphosate and Goethite Using Several Methodologies: an Environmental Perspective. <b>2018</b> , 229, 1	9
449	Surface modified pineapple crown leaf for adsorption of Cr(VI) and Cr(III) ions from aqueous solution. <b>2018</b> , 6, 2492-2501	37
448	Ultrasound wave assisted adsorption of congo red using gold-magnetic nanocomposite loaded on activated carbon: Optimization of process parameters. <b>2018</b> , 46, 99-105	82
447	Comparison of adsorption equilibrium models and error functions for the study of sulfate removal by calcium hydroxyapatite microfibrillated cellulose composite. <b>2018</b> , 39, 952-966	11
446	A method of thermal and chemical activation of waste bleaching earth for preparation of a low-cost carbon-mineral adsorbent for chromium(VI) removal. <b>2018</b> , 53, 1142-1155	3
445	Biosorption of Basic Blue 7 by fungal cells immobilized on the green-type biomatrix of Phragmites australis spongy tissue. <b>2018</b> , 20, 145-152	15
444	Sorption studies of heavy metal ions on pectin-nano-titanium dioxide composite adsorbent. <b>2018</b> , 53, 1034-1044	13
443	Synthetic strong base anion exchange resins: synthesis and sorption of Mo(VI) and V(V). <b>2018</b> , 75, 729-746	5

442	Removal and recovery of Critical Rare Elements from contaminated waters by living <i>Gracilaria gracilis</i> . <b>2018</b> , 344, 531-538	50
441	Engineered/designer biochar for the removal of phosphate in water and wastewater. <b>2018</b> , 616-617, 1242-1260	185
440	Untapped conversion of plastic waste char into carbon-metal LDOs for the adsorption of Congo red. <b>2018</b> , 511, 402-410	61
439	Kinetics of dyeing natural protein fibers with silver nanoparticles. <b>2018</b> , 148, 224-235	18
438	CO <sub>2</sub> adsorption on oxygen enriched porous carbon monoliths: Kinetics, isotherm and thermodynamic studies. <b>2018</b> , 60, 321-332	30
437	Effect of the chelating agents on bio-sorption of hexavalent chromium using <i>Agave sisalana</i> fibers. <b>2018</b> , 26, 984-992	15
436	A novel Fe-La-Ce tri-metallic composite for the removal of fluoride ions from aqueous media. <b>2018</b> , 207, 387-395	22
435	Removal of Copper and Lead using Banana Biochar in Batch Adsorption Systems: Isotherms and Kinetic Studies. <b>2018</b> , 43, 5711-5722	48
434	Cetyltrimethylammonium bromide-coated agrosorbents and their high benzene adsorption performance from aqueous solution. <b>2018</b> , 37, 305-317	5
433	The Neutron-Radiation Study of Kinetics and Thermodynamics of Gd Sorption on C100 for Creation a Target for the Electronic Antineutrino Detector. <b>2018</b> , 81, 1412-1425	
432	Assessment of sorption kinetics of carbon nanotube-based composite foams for oil recovery application. <b>2018</b> , 136, 47374	12
431	Studies on Water Quality of Mokokchung District, Nagaland, India, and Removal of Trace Elements Using Activated Carbon Prepared from Locally Available Bio-Waste. <b>2018</b> , 1-32	
430	Eco-Friendly Acetaminophen Sequestration Using Waste Cotton Seeds: Equilibrium, Optimization and Validation Studies. <b>2018</b> , 40, 334-342	13
429	A Kinetic Study of Copper(II) Extraction using LIX84-I Impregnated Polymeric Particles with Different Structures. <b>2018</b> , 25, 23-36	1
428	Mechanistic insight into protein supported biosorption complemented by kinetic and thermodynamics perspectives. <b>2018</b> , 261, 28-40	16
427	Environmental Treatment Technologies-Adsorption. <b>2018</b> , 1-31	
426	Sodium hydroxide modified rice husk for enhanced removal of copper ions. <b>2018</b> , 78, 1615-1623	2
425	Enhanced removal of chromium (VI) from wastewater using active carbon derived from <i>Lantana camara</i> plant as adsorbent. <b>2018</b> , 78, 1377-1389	24

424	Adsorption Properties and Mechanism of Cd in Water by Zr-containing Silica Residue Purification. <b>2018</b> , 6, 556	4
423	Kinetic Models of Batch Sorption in a Limited Volume. <b>2018</b> , 92, 1782-1789	12
422	Novel cotton fabric adsorbent for efficient As(V) adsorption. <b>2018</b> , 25, 34610-34622	13
421	Nano-ilmenite with Dual Functions of Photocatalysis and Adsorption. <b>2018</b> , 70, 1924-1928	1
420	Tannic acid functionalized graphene hydrogel for organic dye adsorption. <b>2018</b> , 165, 299-306	41
419	A facile route to magnetic mesoporous core-shell structured silicas containing covalently bound cyclodextrins for the removal of the antibiotic doxycycline from water.. <b>2018</b> , 8, 31348-31357	17
418	Tough poly(L-DOPA)-containing Double Network Hydrogel Beads with High Capacity of Dye Adsorption. <b>2018</b> , 36, 1251-1261	13
417	Green synthesis of Ag/MgO nanoparticle modified nanohydroxyapatite and its potential for defluoridation and pathogen removal in groundwater. <b>2018</b> , 107, 25-37	16
416	Nanoparticles for Heavy Metal Removal from Drinking Water. <b>2018</b> , 75-124	2
415	Functional polyaniline/multiwalled carbon nanotube composite as an efficient adsorbent material for removing pharmaceuticals from aqueous media. <b>2018</b> , 221, 28-37	18
414	Adsorption-Oriented Processes Using Conventional and Non-conventional Adsorbents for Wastewater Treatment. <b>2018</b> , 23-71	49
413	Removal of lead (II) from wastewater using active carbon of Caryota urens seeds and its embedded calcium alginate beads as adsorbents. <b>2018</b> , 6, 4298-4309	39
412	Efficacy of spent black tea for the removal of nitrobenzene from aqueous media. <b>2018</b> , 223, 771-778	9
411	Performance of novel biosorbents prepared using native and NaOH treated Peltophorum pterocarpum fruit shells for the removal of malachite green. <b>2018</b> , 3, 75-81	20
410	The Influence of Salt Anions on Heavy Metal Ion Adsorption on the Example of Nickel. <b>2018</b> , 11,	16
409	Removal of tetracycline antibiotics from aqueous solutions using easily regenerable pumice: batch and column study. <b>2018</b> , 53, 143-155	5
408	Cadmium removal from aqueous solution by low-cost native and surface modified Sorghum x drummondii (Sudangrass). <b>2018</b> , 6, 3322-3331	23
407	Adsorption of anionic and cationic dyes on biochars, produced by hydrothermal carbonization of waste biomass: effect of surface functionalization and ionic strength. <b>2018</b> , 42, 86-99	17

406	Immobilization of hydrous iron oxides in porous alginate beads for arsenic removal from water. <b>2018</b> , 4, 1114-1123	10
405	Synthetic Iron Oxides for Adsorptive Removal of Arsenic. <b>2018</b> , 229, 203	24
404	Enhanced adsorption capacity and selectivity toward inorganic and organic mercury ions from aqueous solution by dye-affinity adsorbents. <b>2019</b> , 38, S54-S67	2
403	Modeling the Process of Sorption for the Purification of Waste Water from Petroleum Products and Heavy Metals. <b>2019</b> , 53, 355-363	7
402	Equilibrium studies for copper removal from aqueous solution using nanoadsorbent synthesized from rice husk. <b>2019</b> , 1, 1	7
401	Synthesis and application of Ce-doped TiO nanoparticles loaded on activated carbon for ultrasound-assisted adsorption of Basic Red 46 dye. <b>2019</b> , 58, 104702	38
400	Sequestration of U(VI) from aqueous phase using diethylenetriamine anchored polystyrene-divinylbenzene copolymer. <b>2019</b> , 15, 100430	4
399	Kinetics, thermodynamics and mechanisms of phosphate sorption onto bottle gourd biomass modified by (3-chloro-2-hydroxypropyl) trimethylammonium chloride. <b>2019</b> , 44, 267-285	4
398	Adsorption of disperse blue 14 onto activated carbon prepared from Jackfruit-PPI-I waste. <b>2019</b> , 18, 2036-2051	3
397	Ordered mesoporous carbons obtained from low-value coal tar products for electrochemical energy storage and water remediation. <b>2019</b> , 196, 106152	20
396	Response surface methodology approach for optimization of Cu <sup>2+</sup> and Pb <sup>2+</sup> removal using nanoadsorbent developed from rice husk. <b>2019</b> , 21, 100623	2
395	Adsorption of methylene blue and Cd(II) onto maleylated modified hydrochar from water. <b>2019</b> , 254, 113014	63
394	Statistical analysis on the removal of malachite green dye using active carbons of <i>Achyranthes aspera</i> and <i>Allamanda blanchetii</i> plants. <b>2019</b> , 14, 808-824	
393	Adsorption Removal of Cr(VI) with Activated Carbon Prepared by Co-pyrolysis of Rice Straw and Sewage Sludge with ZnCl <sub>2</sub> Activation. <b>2019</b> , 230, 1	10
392	Assessment of the Use of Epicarp and Mesocarp of Green Coconut for Removal of Fluoride Ions in Aqueous Solution. <b>2019</b> , 2019, 1-8	4
391	Biodecolorization of Basic Blue 41 using EM based Composts: Isotherm and Kinetics. <b>2019</b> , 4, 10006-10012	8
390	Study of the Sorption of Cesium Cations by a Sorbent Based on Titanium Phosphate. <b>2019</b> , 55, 833-840	0
389	Effect of microplastic size on the adsorption behavior and mechanism of triclosan on polyvinyl chloride. <b>2019</b> , 254, 113104	100

- 388 Effects of exogenous silicon on the adsorption kinetics characteristics of arsenic in soils of acidic paddy fields in northeast china. **2019**, 295, 012065
- 387 Plasma-facilitated modification of pumpkin vine-based biochar and its application for efficient elimination of uranyl from aqueous solution. **2019**, 21, 095502 11
- 386 Highly Porous and Nutrients-Rich Biochar Derived from Dairy Cattle Manure and Its Potential for Removal of Cationic Compound from Water. **2019**, 9, 114 9
- 385 The Adsorption of Malachite Green on Graphene Nanocomposites: A Study on Kinetics Under Dynamic Conditions. **2019**, 11, 404-409 4
- 384 Magnetic restricted access carbon nanotubes for smooth Cu and Zn extraction from Cu, Zn-superoxide dismutase. **2019**, 1, 1 2
- 383 Adsorption and anion exchange insight of indigo carmine onto CuAl-LDH/SWCNTs nanocomposite: kinetic, thermodynamic and isotherm analysis.. **2018**, 9, 560-568 32
- 382 Ultraefficient Tanning Process: Role of Mass Transfer Efficiency and Sorption Kinetics of Cr(III) in Leather Processing. **2019**, 7, 3875-3882 7
- 381 Study of two cork species as natural biosorbents for five selected pesticides in water. **2019**, 5, e01189 11
- 380 Controllable reduction of graphene oxide by electron-beam irradiation.. **2019**, 9, 3597-3604 27
- 379 Surface water pollution by pharmaceuticals and an alternative of removal by low-cost adsorbents: A review. **2019**, 222, 766-780 211
- 378 Effective Dye Degradation by Graphene Oxide Supported Manganese Oxide. **2019**, 7, 40 27
- 377 A novel, effective, and feasible method for deacidifying kiwifruit wine by weakly basic ion exchange resins. **2019**, 42, e12969 7
- 376 Effects of Mixed Surfactant on Enhancing High Concentration Anthracene and Pyrene Removal from Contaminated Soil. **2019**, 230, 1 3
- 375 The effect of pH and ionic strength on the adsorption of glyphosate onto ferrihydrite. **2019**, 20, 3 27
- 374 Mixed ad/desorption kinetics unraveled with the equilibrium adsorption isotherm. **2019**, 577, 709-722 12
- 373 Study of the kinetics and mechanism of Sr<sup>2+</sup> sorption by clinoptilolite. **2019**, 321, 31-38 1
- 372 Development of nanomaterial chemosensors for toxic metal ions sensing. **2019**, 33, e4868 5
- 371 Conversion of biomass residual to acid-modified bio-chars for efficient adsorption of organic pollutants from industrial phosphoric acid: an experimental, kinetic and thermodynamic study. **2019**, 99, 1211-1234 13

370	Green chemical synthesis of new chelating fiber and its mechanism for recovery gold from aqueous solution. <b>2019</b> , 378, 120674	13
369	Novel adsorbents possessing cumulative sorption nature evoked from Al <sub>2</sub> O <sub>3</sub> nanoflakes, C.urens seeds active carbon and calcium alginate beads for defluoridation studies. <b>2019</b> , 101, 50-63	23
368	AloeVera as an effective biosorbent for the removal of thorium and barium from aqueous solutions. <b>2019</b> , 321, 217-226	12
367	Exploration of functional MOFs for efficient removal of fluoroquinolone antibiotics from water. <b>2019</b> , 286, 84-91	43
366	Inorganic Nanoadsorbent: Akaganite in Wastewater Treatment. <b>2019</b> , 337-358	1
365	Effects of pH, competing ions and aging on arsenic(V) sorption and isotopic exchange in contaminated soils. <b>2019</b> , 105, 114-124	17
364	Performance comparison of chitosan/linoptilolite nanocomposites as adsorbents for vanadium in aqueous media. <b>2019</b> , 26, 5321-5345	20
363	Eco-friendly complementary biosorption process of methylene blue using micro-sized dried biosorbents of two macro-algal species ( <i>Ulva fasciata</i> and <i>Sargassum dentifolium</i> ): Full factorial design, equilibrium, and kinetic studies. <b>2019</b> , 134, 330-343	33
362	Practical separation performance evaluation of coal mine methane upgrading with carbon molecular sieves. <b>2019</b> , 367, 295-303	21
361	3D MnO <sub>2</sub> nanotubes@reduced graphene oxide hydrogel as reusable adsorbent for the removal of heavy metal ions. <b>2019</b> , 231, 105-108	32
360	Description of adsorption interactions of lead ions with functional groups of pectin-containing substances. <b>2019</b> , 283, 606-616	21
359	Zr ions embedded chitosan-soya bean husk activated bio-char composite beads for the recovery of nitrate and phosphate ions from aqueous solution. <b>2019</b> , 130, 573-583	28
358	Peculiarities of the Sorption of Amino Acids and Their Metabolites by Medicinal Carbon Sorbents. <b>2019</b> , 54, 414-419	0
357	Adsorption of copper ion from solution by polyethylenimine modified wheat straw. <b>2019</b> , 6, 96-102	51
356	Preparation of three-dimensional honeycomb carbon materials and their adsorption of Cr(VI). <b>2019</b> , 367, 9-16	78
355	Functionalized graphene nanosheets as absorbent for copper (II) removal from water. <b>2019</b> , 173, 28-36	17
354	Sulfoethylated polyaminostyrene (polymer ligand with high selective interaction with silver ions in multicomponent solutions. <b>2019</b> , 7, 102846	4
353	Oxidant-templating fabrication of pure polypyrrole hydrogel beads as a highly efficient dye adsorbent.. <b>2019</b> , 9, 5895-5900	5

352	Stability of polyethylenimine solution-in-liquid paraffin emulsion for preparing polyamine microspheres with potential adsorption for ionic dyes. <b>2019</b> , 14, e2294	1
351	Application of biochar derived from date palm biomass for removal of lead and copper ions in a batch reactor: Kinetics and isotherm scrutiny. <b>2019</b> , 722, 64-73	21
350	Sol-gel mediated synthesis of silica nanoparticle from Bambusa vulgaris leaves and its environmental applications: kinetics and isotherms studies. <b>2019</b> , 90, 653-664	18
349	Arsenic Removal from Water by Green Synthesized Magnetic Nanoparticles. <b>2019</b> , 11, 2520	16
348	Modification of Radiation Grafted Banana Trunk Fibers for Adsorption of Anionic Dyes. <b>2019</b> , 20, 2556-2569	3
347	Novel Nanostructured Metal-Organic Framework-Bonded Silica Amine and Polymer: Facile Synthesis, Kinetics, Isotherms, and Thermodynamics Evaluation for Adsorption of Yttrium(III) Ions. <b>2019</b> , 64, 6060-6070	12
346	Calcium Alginate Thin Films Derived from Sargassum natans for the Selective Adsorption of Cd <sup>2+</sup> , Cu <sup>2+</sup> , and Pb <sup>2+</sup> Ions. <b>2019</b> , 58, 1417-1425	18
345	The polyaminocarboxylated modified hydrochar for efficient capturing methylene blue and Cu(II) from water. <b>2019</b> , 275, 360-367	51
344	Adsorption of methyl blue from solution using walnut shell and reuse in a secondary adsorption for Congo red. <b>2019</b> , 5, 238-242	39
343	Epoxide functionalized Al <sub>2</sub> O <sub>3</sub> /Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> nanocomposite and comparative adsorption behavior of a model reactive azo dye. <b>2019</b> , 16, 1239-1252	3
342	Polymer-coated gauze as efficient, reusable and economically viable adsorbents for the removal of Ni <sup>2+</sup> ion. <b>2019</b> , 134, 1-9	5
341	Nanomaterials as versatile adsorbents for heavy metal ions in water: a review. <b>2019</b> , 26, 6245-6278	119
340	Physicochemical characterization of new natural clay from south west of Algeria: Application to the elimination of malachite green dye. <b>2019</b> , 38, 13152	3
339	Biochar-mediated sorption of antibiotics in pig manure. <b>2019</b> , 364, 663-670	41
338	Simultaneous removal of trace elements from contaminated waters by living Ulva lactuca. <b>2019</b> , 652, 880-888	33
337	Effective removal of methylene blue, a hazardous dye from industrial effluents using active carbon of F.infectoria plant. <b>2019</b> , 16, 7837-7848	7
336	A new approach to improve sulfate uptake from contaminated aqueous solution: Metal layered double hydroxides functionalized metasomatic rock. <b>2019</b> , 54, 447-466	4
335	Removal of chromium (VI) from water using adsorbent derived from spent coffee grounds. <b>2019</b> , 16, 101-112	26



334	Magnetic Fe <sub>3</sub> O <sub>4</sub> -chitosan micro- and nanoparticles for wastewater treatment. <b>2019</b> , 37, 732-740	14
333	Removal of pentachlorophenol pesticide from aqueous solutions using modified chitosan. <b>2020</b> , 13, 1821-1830	40
332	Ultrasound wave assisted removal of Ceftriaxone sodium in aqueous media with novel nano composite g-CN/MWCNT/BiWO based on CCD-RSM model. <b>2020</b> , 68, 104460	18
331	Fly ash as a sorbent for boron removal from aqueous solutions: Equilibrium and thermodynamic studies. <b>2020</b> , 55, 2149-2157	4
330	Diffusion mechanism and effect of mass transfer limitation during the adsorption of CO <sub>2</sub> by polyaspartamide in a packed-bed unit. <b>2020</b> , 13, 54-67	18
329	Optimization of Fe and Mn Removal from Coal Acid Mine Drainage (AMD) with Waste Biomaterials: Statistical Modeling and Kinetic Study. <b>2020</b> , 11, 1143-1157	6
328	Removal mechanisms of aqueous Cr(VI) using apple wood biochar: a spectroscopic study. <b>2020</b> , 384, 121371	58
327	As(III) adsorption onto different-sized polystyrene microplastic particles and its mechanism. <b>2020</b> , 239, 124792	74
326	Synthesis of nanosized amorphous and nanocrystalline TiO <sub>2</sub> for photochemical oxidation of methomyl insecticide in aqueous media. <b>2020</b> , 34, 239-249	8
325	Preparation and characterization of metal organic framework-derived nanoporous carbons for highly efficient removal of vanadium from aqueous solution. <b>2020</b> , 812, 152051	18
324	Supported ionic liquids as efficient materials to remove non-steroidal anti-inflammatory drugs from aqueous media. <b>2020</b> , 381, 122616	26
323	Synthesis and characterization of magnetite nanoparticles from polyol medium for sorption and selective separation of Pd(II) from aqueous solution. <b>2020</b> , 812, 152041	10
322	Electrokinetic effects on the interaction of phenanthrene with geo-sorbents. <b>2020</b> , 242, 125161	3
321	Green fabrication of ZnO nanoparticles using Eucalyptus spp. leaves extract and their application in wastewater remediation. <b>2020</b> , 247, 125803	45
320	Performance of oil sorbents based on reduced graphene oxide/silica composite aerogels. <b>2020</b> , 8, 103632	23
319	Pb(II) uptake onto nylon microplastics: Interaction mechanism and adsorption performance. <b>2020</b> , 386, 121960	99
318	Preparation of nitrogen-doped porous carbon material by a hydrothermal-activation two-step method and its high-efficiency adsorption of Cr(VI). <b>2020</b> , 387, 121987	56
317	Interaction of chemical contaminants with microplastics: Principles and perspectives. <b>2020</b> , 706, 135978	142

316	Ball milled biochar effectively removes sulfamethoxazole and sulfapyridine antibiotics from water and wastewater. <b>2020</b> , 258, 113809	68
315	Efficacy of biochar in removal of organic pesticide, Bentazone from watershed systems. <b>2020</b> , 55, 396-405	20
314	The immobilization of lanthanide (III) cations on a polymer containing quaternary ammonium nitrogen: influence of the temperature and pH, process kinetics. <b>2020</b> , 298, 59-65	
313	Rapid Preparation of Activated Carbon Fiber Felt under Microwaves: Pore Structures, Adsorption of Tetracycline in Water, and Mechanism. <b>2020</b> , 59, 146-153	5
312	Biofilm alters tetracycline and copper adsorption behaviors onto polyethylene microplastics. <b>2020</b> , 392, 123808	71
311	Nitrogen and sulfur co-doped biochar derived from peanut shell with enhanced adsorption capacity for diethyl phthalate. <b>2020</b> , 258, 113674	31
310	Removal of Pb (II) from aqueous solution using nanoadsorbent of husk: Isotherm, kinetic and thermodynamic studies. <b>2020</b> , 25, e00410	17
309	Assessment of schwertmannite, jarosite and goethite as adsorbents for efficient adsorption of phenanthrene in water and the regeneration of spent adsorbents by heterogeneous fenton-like reaction. <b>2020</b> , 244, 125523	21
308	A review of phosphate adsorption on Mg-containing materials: kinetics, equilibrium, and mechanistic insights. <b>2020</b> , 6, 3178-3194	14
307	Complexation of lead and cadmium ions with humic acids from arctic peat soils. <b>2020</b> , 191, 110058	5
306	Biochar characteristics, applications and importance in health risk reduction through metal immobilization. <b>2020</b> , 20, 101121	8
305	Calix[4]arene-clicked clay through thiol-yne addition for the molecular recognition and removal of Cd(II) from wastewater. <b>2020</b> , 251, 117383	13
304	Dynamics modeling of multicomponent metal ions' removal onto low-cost buckwheat hulls. <b>2021</b> , 28, 46504-46513	1
303	Intraparticle diffusion of Cr(VI) through biomass and magnetite coated biomass: A comparative kinetic and diffusion study. <b>2020</b> , 32, 39-55	85
302	Modified Spruce Sawdust for Sorption of Hexavalent Chromium in Batch Systems and Fixed-Bed Columns. <b>2020</b> , 25,	1
301	Synthesis of nanoZrO via simple new green routes and its effective application as adsorbent in phosphate remediation of water with or without immobilization in Al-alginate beads. <b>2020</b> , 81, 2617-2633	17
300	Mitigation of clofibrac acid pollution by adsorption: A review of recent developments. <b>2020</b> , 8, 104264	39
299	Removal of polycyclic aromatic hydrocarbons from aqueous media using modified clinoptilolite. <b>2020</b> , 273, 111113	14

298	Melamine derived nitrogen-doped carbon sheet for the efficient removal of chromium (VI). <b>2020</b> , 318, 114052	11
297	Copper oxide nanoparticles for the removal of divalent nickel ions from aqueous solution. <b>2020</b> , 1-14	6
296	Sorption of Organic Pollutants onto Soils: Surface Diffusion Mechanism of Congo Red Azo Dye. <b>2020</b> , 8, 1639	5
295	Passive Detection of Phosphorus in Agricultural Tile Waters Using Reactive Hybrid Anion Exchange Resins. <b>2020</b> , 12, 2808	
294	Sewage Sludge Hydrochar: An Option for Removal of Methylene Blue from Wastewater. <b>2020</b> , 10, 3445	37
293	Individual and simultaneous adsorption of tetracycline and cadmium by dodecyl dimethyl betaine modified vermiculite. <b>2020</b> , 602, 125171	6
292	Smart synthetic maghemite nanoparticles with unique surface properties encode binding specificity toward As. <b>2020</b> , 741, 140175	5
291	ZIF-based zinc titanate composite as sufficient sorbent for removal of Congo red from aqueous solutions. <b>2020</b> , 8, 721-732	3
290	Use of Raman spectroscopy to assess nitrate uptake by calcined LDH phases. <b>2020</b> , 602, 125066	5
289	Adsorption behavior of Ag(I) onto elemental sulfur-encapsulated silica nanocapsules for industrial applications. <b>2020</b> , 37, 652-662	1
288	Application of Nostoc sp. for hexavalent chromium [Cr(VI)] removal: planktonic and biofilm. <b>2020</b> , 1-22	7
287	Effective De-fluoridation of Water Using Leucaena leucocephala Active Carbon as Adsorbent. <b>2020</b> , 14, 415-426	10
286	Wood-based cellulose nanocrystals as adsorbent of cationic toxic dye, Auramine O, for water treatment. <b>2020</b> , 8, 104187	14
285	Adsorption of pollutants by plant bark derived adsorbents: An empirical review. <b>2020</b> , 35, 101228	69
284	Wastewater Treatment from Lead and Strontium by Potassium Poly titanates: Kinetic Analysis and Adsorption Mechanism. <b>2020</b> , 8, 217	6
283	A Porous Material Made from Curdlan by EDTAD Functionalization Shows High Adsorption Capacity on Removal of Cu <sup>2+</sup> and Zn <sup>2+</sup> from Water. <b>2020</b> , 28, 1368-1377	1
282	Highly efficient removal of phosphate by lanthanum modified nanochitosan-hierarchical ZSM-5 zeolite nanocomposite: characteristics and mechanism. <b>2020</b> , 27, 4637-4664	10
281	Negligible effect of potentially toxic elements and rare earth elements on mercury removal from contaminated waters by green, brown and red living marine macroalgae. <b>2020</b> , 724, 138133	17

280	Application of Nanoscale Zero-Valent Iron-Loaded Natural Zeolite for Tetracycline Removal Process. <b>2020</b> , 43, 1285-1296	5
279	Effective Adsorptive Removal of Methylene Blue from Water by Didodecyldimethylammonium Bromide-Modified Brown Clay. <b>2020</b> , 5, 16711-16721	25
278	Enhanced adsorption properties of zirconium modified chitosan-zeolite nanocomposites for vanadium ion removal. <b>2020</b> , 164, 105-120	15
277	Synthesis of a cleaner potassium hydroxide-activated carbon from baobab seeds hulls and investigation of adsorption mechanisms for diuron: Chemical activation as alternative route for preparation of activated carbon from baobab seeds hulls and adsorption of diuron. <b>2020</b> , 9, e00476	7
276	Preparation and characterization of porous chitosan based membrane with enhanced copper ion adsorption performance. <b>2020</b> , 154, 104681	8
275	Green synthesis of AgMgOnHaP nanoparticles supported on chitosan matrix: Defluoridation and antibacterial effects in groundwater. <b>2020</b> , 8, 104026	11
274	Equilibrium, kinetics and thermodynamics studies of Cd sorption onto a dithizone-impregnated Amberchrom CG-300m polymer resin. <b>2020</b> , 13, 5050-5059	8
273	Chitosan capped Au@Pd@Ag trimetallic nanoparticles: Synthesis, stability, capping action and adsorbing activities. <b>2020</b> , 153, 545-560	18
272	Valorisation of Cocoa (Theobroma cacao) pod husk as precursors for the production of adsorbents for water treatment. <b>2020</b> , 9, 20-36	43
271	Recent advances on the development and application of magnetic activated carbon and char for the removal of pharmaceutical compounds from waters: A review. <b>2020</b> , 718, 137272	52
270	Porous carbons derived from hydrothermally treated biogas digestate. <b>2020</b> , 105, 170-179	15
269	Chloride adsorption on aminobenzoate intercalated layered double hydroxides: Kinetic, thermodynamic and equilibrium studies. <b>2020</b> , 187, 105495	20
268	Removal of amaranth dye over surfactant modified dull pink clay from aqueous medium. <b>2020</b> , 1-18	6
267	Study of Pb(II) removal ZIF@NiTiO <sub>3</sub> nanocomposite from aqueous solutions. <b>2020</b> , 8, 103703	13
266	Adsorption of dyes onto modified titanium dioxide. <b>2020</b> , 85-160	
265	Biosorbents for heavy metal removal from dilute aqueous solution. <b>2020</b> , 105-132	1
264	Highly effective pH-universal removal of tetracycline hydrochloride antibiotics by UiO-66-(COOH) <sub>2</sub> /GO metal-organic framework composites. <b>2020</b> , 284, 121200	28
263	Zn/Fe LDH as a clay-like adsorbent for the removal of oxytetracycline from water: combining experimental results and molecular simulations to understand the removal mechanism. <b>2020</b> , 27, 12256-12269 <sup>23</sup>	

262	Characteristics and performance of rutile/anatase/brookite TiO <sub>2</sub> and TiO <sub>2</sub> ·Ti <sub>2</sub> O <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> )·H <sub>2</sub> O multiphase mixed crystal for the catalytic degradation of emerging contaminants. <b>2020</b> , 22, 1086-1095	8
261	Comparison of The Sorption Kinetics of Lead(II) and Zinc(II) on Titanium Phosphate Ion-Exchanger. <b>2020</b> , 21,	4
260	N-Aminorhodanine modified chitosan hydrogel for antibacterial and copper ions removal from aqueous solutions. <b>2020</b> , 158, 32-32	26
259	Neoteric approach for efficient eco-friendly dye removal and recovery using algal-polymer biosorbent sheets: Characterization, factorial design, equilibrium and kinetics. <b>2020</b> , 157, 494-509	27
258	Synthesis of PAN/ferrocyanide composite incorporated with cetrimonium bromide and its employment as a bifunctional adsorbent for coremoval of Cs <sup>+</sup> and HCrO <sub>4</sub> <sup>-</sup> from aqueous solutions. <b>2020</b> , 324, 647-661	2
257	Adsorption of DBT and 4,6-DMDBT on nanoporous activated carbons: the role of surface chemistry and the solvent. <b>2021</b> , 28, 59050-59062	4
256	Synthesis of porous aminated PAN/PVDF composite nanofibers by electrospinning: Characterization and Direct Red 23 removal. <b>2020</b> , 8, 103876	13
255	Metoprolol beta-blocker decontamination from water by the adsorptive action of metal-organic frameworks-nano titanium oxide coated tin dioxide nanoparticles. <b>2020</b> , 309, 113096	6
254	Removal of uranium (VI) from water by the action of microwave-rapid green synthesized carbon quantum dots from starch-water system and supported onto polymeric matrix. <b>2020</b> , 397, 122770	32
253	Adsorption and desorption behaviors of antibiotic ciprofloxacin on functionalized spherical MCM-41 for water treatment. <b>2020</b> , 264, 121644	45
252	Biosorption of cadmium and nickel ions using marine macrophyte, <i>Cymodocea nodosa</i> . <b>2020</b> , 36, 458-474	9
251	Immobilized microbial nanoparticles for biosorption. <b>2020</b> , 40, 653-666	26
250	Adsorption of hexavalent chromium using modified walnut shell from solution. <b>2020</b> , 81, 824-833	10
249	Ecotoxicology of glyphosate and recent advances in its mitigation by adsorption. <b>2021</b> , 28, 2655-2668	17
248	Interfacial interactions between collected nylon microplastics and three divalent metal ions (Cu(II), Ni(II), Zn(II)) in aqueous solutions. <b>2021</b> , 403, 123548	42
247	Effects of exposure of polyethylene microplastics to air, water and soil on their adsorption behaviors for copper and tetracycline. <b>2021</b> , 404, 126412	51
246	Adsorption of ciprofloxacin from water: A comprehensive review. <b>2021</b> , 93, 57-77	63
245	Preparation and characterization of ternary Cu/Cu <sub>2</sub> O/C composite: An extraordinary adsorbent for removing anionic organic dyes from water. <b>2021</b> , 404, 127091	20

244	Chemisorption of copper ions in aqueous acidic solutions by modified chitosan. <b>2021</b> , 263, 114778	8
243	Insights into adsorption rate constants and rate laws of preset and arbitrary orders. <b>2021</b> , 255, 117713	2
242	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
241	Possible adsorption mechanisms of the removal of tetracycline from water by La-doped Zn-Fe-layered double hydroxide. <b>2021</b> , 322, 114546	11
240	Adsorption of Cr(VI) from aqueous solutions using novel activated carbon spheres derived from glucose and sodium dodecylbenzene sulfonate. <b>2021</b> , 759, 143457	22
239	Kinetic and equilibrium adsorption parameters estimation based on a heterogeneous intraparticle diffusion model. <b>2021</b> , 22, 100791	4
238	Reviewing the current status of layered double hydroxide-based smart nanocontainers for corrosion inhibiting applications. <b>2021</b> , 10, 390-421	29
237	Hexabromocyclododecane alters malachite green and lead(II) adsorption behaviors onto polystyrene microplastics: Interaction mechanism and competitive effect. <b>2021</b> , 265, 129079	15
236	GIS zeolite obtained by the microwave-hydrothermal method: Synthesis and evaluation of its adsorptive capacity. <b>2021</b> , 260, 124142	1
235	Efficiently activated carbons from corn cob for methylene blue adsorption. <b>2021</b> , 3, 100037	26
234	Activated carbon production from industrial yeast residue to boost up circular bioeconomy. <b>2021</b> , 28, 24694-24705	5
233	Adsorption of synthetic and real Kinetic Hydrate Inhibitors (KHI) wastewaters on activated carbon: adsorption kinetics, isotherms, and optimized conditions. <b>2021</b> , 56, 2266-2277	1
232	Adsorption of Cadmium onto Sand-Attapulgite Cutoff Wall Backfill Media. <b>2021</b> , 232, 1	0
231	Enhancing removal efficiency of anionic dye (Cibacron blue) using waste potato peels powder. <b>2021</b> , 11, 2090	10
230	An overview of the biosorption mechanism for the bioremediation of synthetic dyes using yeast cells. <b>2021</b> , 10, 58-76	7
229	Adsorption processes in biopolymer systems: fundamentals to practical applications. <b>2021</b> , 1-51	
228	Pb (II) biosorption from the aqueous solutions by raw and modified tea factory waste (TFW). <b>2021</b> , 18, 2975-2986	5
227	Adsorption isotherms and kinetics. <b>2021</b> , 445-509	2

226	Fabrication and application of composite adsorbents made by one-pot electrochemical exfoliation of graphite in surfactant ionic liquid/nanocellulose mixtures. <b>2021</b> , 23, 19313-19328	0
225	Effect of magnetic field on the removal of copper from aqueous solution using activated carbon derived from rice husk. <b>2021</b> , 1	2
224	Iron-alginate beads doped with green synthesised nano-CeO <sub>2</sub> -ZrO <sub>2</sub> as an effective adsorbent for removal of highly toxic Arsenic-ions from polluted water. 1-19	3
223	Duckweed-lemna minor as green route for removal of chromium (VI) from aqueous solution. <b>2021</b> , 15, 275-284	1
222	Removal of Methylene Blue and Congo Red Using Adsorptive Membrane Impregnated with Dried and. <b>2021</b> , 10,	11
221	Water softening using graphene oxide/biopolymer hybrid nanomaterials. <b>2021</b> , 9, 105045	2
220	Surface-Activated Chelating Resins Containing N-Methyl-D-Glucamine Functional Groups for Desalination of Geothermal Water Aimed for Removal of Boron and Arsenic. <b>2021</b> , 39, 584-603	
219	Nutshells as Efficient Biosorbents to Remove Cadmium, Lead, and Mercury from Contaminated Solutions. <b>2021</b> , 18,	5
218	Comparative study for bioremediation of cobalt contaminated aqueous solutions by two types of marine macroalgae. <b>2021</b> , 47, 13-19	2
217	Nanoscale Zerovalent Iron Immobilized on Functionalized Nonwoven Cotton Fabric for As(V) Adsorption. <b>2021</b> , 232, 1	1
216	Removal of Cibacron Blue P-3R (RB 49) dye from aqueous solution using chemo-physically activated biochar from Agave fiber waste. 1	
215	Synergistic effect in concurrent removal of toxic methylene blue and acid red-1 dyes from aqueous solution by durian rind: kinetics, isotherm, thermodynamics, and mechanism. <b>2021</b> , 23, 1432-1443	6
214	Utilisation of Biomass and Hybrid Biochar from Elephant Grass and Low Density Polyethylene for the Competitive Adsorption of Pb(II), Cu(II), Fe(II) and Zn(II) from Aqueous Media. <b>2021</b> , 14, 148-159	6
213	Amine- and thiol-functionalized SBA-15: Potential materials for As(V), Cr(VI) and Se(VI) removal from water. Comparative study. <b>2021</b> , 40, 101942	6
212	Adsorption of nanoparticles on glass bead surface for enhancing proppant performance: A systematic experimental study. <b>2021</b> , 328, 115398	24
211	Gold@Silver bimetallic nanoparticles: fabrication and removal of toxic chromium(VI). <b>2021</b> , 32, 11043-11058	3
210	Removal of Cu metal ions from water using Mg-Fe layered double hydroxide and Mg-Fe LDH/5-(3-nitrophenylazo)-6-aminouracil nanocomposite for enhancing adsorption properties. <b>2021</b> , 28, 47651-47667	2
209	On the combination of modern sorbents with cost analysis: A review. <b>2021</b> , 1229, 129841	

208	Biosorption of Cr (VI) Using <i>Bacillus licheniformis</i> and <i>Bacillus mucilaginosus</i> Krassilnikov: Contrastive Investigation on Removal Performance, Kinetics, and Mechanisms. <b>2021</b> , 38, 231-244	2
207	Core-shell ZnO@Cu <sub>2</sub> O encapsulated Ag NPs nanocomposites for photooxidation-adsorption of iodide anions under visible light. <b>2021</b> , 262, 118328	11
206	Optimization of Ni(II), Pb(II), and Zn(II) Ion Adsorption Conditions on Pliocene Clays from Post-Mining Waste. <b>2021</b> , 11, 568	0
205	Fast removal of samarium ions in water on highly efficient nanocomposite based graphene oxide modified with polyhydroquinone: Isotherms, kinetics, thermodynamics and desorption. <b>2021</b> , 329, 115584	28
204	Novel Pilot-Scale Technology for Refinery Flare Flue Gas Carbon Capture and Storage Using Cost-Effective Adsorbents. <b>2021</b> , 13, 807	
203	Studies of the potential of a native natural biosorbent for the elimination of an anionic textile dye Cibacron Blue in aqueous solution. <b>2021</b> , 11, 9705	7
202	Use of thermally modified waste concrete powder for removal of Pb (II) from wastewater: Effects and mechanism. <b>2021</b> , 277, 116776	7
201	Simulating PFAS adsorption kinetics, adsorption isotherms, and nonideal transport in saturated soil with tempered one-sided stable density (TOSD) based models. <b>2021</b> , 411, 125169	6
200	Simultaneous removal of anti-inflammatory pharmaceutical compounds from an aqueous mixture with adsorption onto chitosan zwitterionic derivative. <b>2021</b> , 619, 126498	10
199	Investigation of Copper removal mechanisms on <i>Quercus robur</i> acorn caps: Equilibrium, kinetics, thermodynamic and characterization studies. <b>2021</b> , 11, 1	0
198	Uptake of Pb(II) onto microplastic-associated biofilms in freshwater: Adsorption and combined toxicity in comparison to natural solid substrates. <b>2021</b> , 411, 125115	31
197	Solvent-Free Synthesized Monolithic Ultraporous Aluminas for Highly Efficient Removal of Remazol Brilliant Blue R: Equilibrium, Kinetic, and Thermodynamic Studies. <b>2021</b> , 14,	0
196	Adsorption performance of multi-walled carbon nanotube-SiO <sub>2</sub> adsorbent for toluene. <b>2021</b> , 49, 861-872	1
195	Preparation and characterization of nano-structured modified montmorillonite for dioxidine antibacterial drug removal in water. <b>2021</b> , 331, 115770	26
194	Kinetic Patterns of the Adsorption of Air Macrocomponents on Nanocomposites Based on Calcium Alginate and Carbon Nanotubes. <b>2021</b> , 95, 1200-1206	
193	Adsorption of Congo red and malachite green using H <sub>3</sub> PO <sub>4</sub> and NaCl-modified activated carbon from rubber ( <i>Hevea brasiliensis</i> ) seed shells. <b>2021</b> , 7, 1	9
192	From hazardous agriculture waste to hazardous metal scavenger: Tobacco stalk biochar-mediated sequestration of Cd leads to enhanced tobacco productivity. <b>2021</b> , 413, 125303	6
191	Adsorption behavior of organic pollutants on microplastics. <b>2021</b> , 217, 112207	56



190	Advanced Materials for Energy-Water Systems: The Central Role of Water/Solid Interfaces in Adsorption, Reactivity, and Transport. <b>2021</b> , 121, 9450-9501	9
189	Adsorption-Membrane Hybrid Approach for the Removal of Azithromycin from Water: An Attempt to Minimize Drug Resistance Problem. <b>2021</b> , 13, 1969	7
188	Sustainable Water Treatment: Use of Agricultural and Industrial Wastes to Remove Mercury by Biosorption. <b>2021</b> , 232, 1	0
187	De-fluoridation studies: using Lanthanum-alginate-beads impregnated with green synthesized nSiO <sub>2</sub> and active carbon of Terminalia Ivorensis plant as an effective adsorbent. 1	2
186	Synthesis of a novel three-dimensional porous carbon material and its highly selective Cr(VI) removal in wastewater. <b>2021</b> , 306, 127204	10
185	Adsorption of vanadium with amorphous hydrated chromium oxide.	0
184	Characterization of Ionic Exchange and Macroporous Resins for Their Application on the Separation and Recovery of Chlorogenic Acid from the Wastewater of Artichoke Blanching. <b>2021</b> , 13, 8928	0
183	Phosphate removal by Ion exchange in batch mode.	1
182	A novel intraparticle mass transfer model for the biosorption rate of methylene blue on white pine (Pinus durangensis) sawdust. Diffusion-permeation. <b>2021</b> , 172, 43-52	0
181	Investigation of uranium biosorption using tomato peel in raw and modified form. <b>2021</b> , 330, 305-314	3
180	Development of a method for removal of platinum from hospital wastewater by novel ion-imprinted mesoporous organosilica. <b>2021</b> , 9, 105302	5
179	Adsorption of propranolol hydrochloride from aqueous solutions onto thermally treated bentonite clay: A complete batch system evaluation. <b>2021</b> , 337, 116442	4
178	Sorption of tetracycline onto hexabromocyclododecane/polystyrene composite and polystyrene microplastics: Statistical physics models, influencing factors, and interaction mechanisms. <b>2021</b> , 284, 117164	6
177	Mechanisms of heavy metal and oil removal from synthetic saline oilfield produced water by electrocoagulation. <b>2021</b> , 4,	0
176	Removal of sulfate from wastewater via synthetic Mg-Al layered double hydroxide: An adsorption, kinetics, and thermodynamic study. <b>2021</b> , 100185	1
175	CTAB/H <sub>2</sub> O <sub>2</sub> modified biosorbent for anionic dye from aqueous solutions: biosorption parameters and mechanism. 1	0
174	Adsorptive Recovery of Cd(II) Ions with the Use of Post-Production Waste Generated in the Brewing Industry. <b>2021</b> , 14, 5543	1
173	Eco-friendly zeolite/alginate microspheres for Ni ions removal from aqueous solution: Kinetic and isotherm study. <b>2021</b> , 1241, 130605	2

172	Nanoplastics adsorption and removal efficiency by granular activated carbon used in drinking water treatment process. <b>2021</b> , 791, 148175	9
171	Synthesis of spherical SBA-15 by poly (vinyl alcohol)/ Hydroxyl-terminated polybutadiene supermicelles as co-surfactant and its application for removal of diazinon from aqueous solution. <b>2021</b> , 24, 101899	1
170	Alkaliphilic bacteria retrieved from uranium mining effluent: Characterization, U sequestration and remediation potential. <b>2021</b> , 24, 101893	1
169	Pectin derived from pomelo pith as a superior adsorbent to remove toxic Acid Blue 25 from aqueous solution. <b>2021</b> , 2, 100116	1
168	Mesoporous activated carbon as a green adsorbent for the removal of heavy metals and Congo red: Characterization, adsorption kinetics, and isotherm studies. <b>2021</b> , 243, 103869	15
167	Characteristic and biosorption capacities of orange peels biosorbents for removal of ammonia and nitrate from contaminated water. <b>2021</b> , 1, 100001	7
166	Adsorption Properties and Cost of Dicarboxylic Nanocellulose on Copper Ions for Wastewater Treatment. <b>2022</b> , 10, 751-766	1
165	Fabrication and mechanism exploration of oxygen-incorporated 1T-MoS <sub>2</sub> with high adsorption performance on methylene blue. <b>2022</b> , 428, 130954	4
164	Microplastics as Pollutants in the Marine Environment. <b>2021</b> , 373-399	1
163	Calcium Alginate Beads Doped with Nano-ZrO <sub>2</sub> and Activated Carbon of Annona reticulate Plant as an Effective Adsorbent for Water Remediation of Chromium(VI). <b>2021</b> , 33, 281-290	3
162	A review on the occurrence, distribution, characteristics, and analysis methods of microplastic pollution in ecosystem s. <b>2021</b> , 33, 227-246	3
161	Process optimization and adsorption modeling using hierarchical ZIF-8 modified with Lanthanum and Copper for sulfate uptake from aqueous solution: Kinetic, Isotherm and Thermodynamic studies. <b>2021</b> , 31, 2401-2424	3
160	Insight into the adsorption kinetics, mechanism, and thermodynamics of methylene blue from aqueous solution onto pectin-alginate-titania composite microparticles. <b>2021</b> , 3, 1	9
159	Sorption Kinetics. 564	2
158	De-fluoridation of Polluted Water Using Aluminium Alginate Beads Doped with Green Synthesized Nano SiO <sub>2</sub> +Nano CeO <sub>2</sub> -ZrO <sub>2</sub> as an Effective Adsorbent. <b>2020</b> , 5, 15061-15074	4
157	The Kinetic Parameters Evaluation for the Adsorption Processes at Liquid-Solid Interface. <b>2016</b> , 81-109	1
156	Iron (III) and iminodiacetic acid functionalized magnetic peanut husk for the removal of phosphate from solution: Characterization, kinetic and equilibrium studies. <b>2020</b> , 268, 122191	39
155	A novel adsorbent from carrot, tomato and polyethylene terephthalate waste as a potential adsorbent for Co (II) from aqueous solution: Kinetic and equilibrium studies. <b>2018</b> , 6, 246-257	38

154	Biosorption for sustainable recovery of precious metals from wastewater. <b>2020</b> , 8, 103996	18
153	Novel synthesis of Ni/Fe layered double hydroxides using urea and glycerol and their enhanced adsorption behavior for Cr(VI) removal. <b>2020</b> , 10, 587	43
152	Kinetic and Thermodynamic Study of Phenol Removal from Water Using Activated Carbon Synthesized from Avocado Kernel Seed. 54, 42-57	5
151	Modeling of Cd <sup>2+</sup> Sorption Kinetics from Aqueous Solutions onto Some Thiolated Agricultural Waste Adsorbents. <b>2006</b> , 6, 2549-2556	13
150	Adsorption Mechanisms of Co <sup>2+</sup> and Cu <sup>2+</sup> from Aqueous Solutions using Natural Clinoptilolite: Equilibrium and Kinetic Studies. <b>2010</b> , 10, 599-610	10
149	Comparative Study of Adsorption of Copper Ion onto Locally Developed and Commercial Chitosan. <b>2015</b> , 05, 21-37	6
148	Simultaneous Removal of Chromium and Lead from Water by Sorption on Iraqi Montmorillonite. <b>2015</b> , 06, 237-249	8
147	REMOVAL EFFICIENCY OF POTATO PEELS AS A NEW BIOSORBENT MATERIAL FOR UPTAKE OF Pb(II) Cd(II) AND Zn(II) FROM THEIR AQUEOUS SOLUTIONS. <b>2011</b> , 37, 128-140	31
146	Equilibrium and Kinetic Studies of Safranin Adsorption on Alkali-Treated Mango Seed Integuments. <b>2012</b> , 160-166	6
145	Uranium and Thorium Retention onto Sorbents from Raw and Modified Pomegranate Peel. <b>2021</b> , 232, 1	2
144	TiO <sub>2</sub> /guar gum hydrogel composite for adsorption and photodegradation of methylene blue. <b>2021</b> , 193, 721-733	4
143	Kinetics of the Sorption of Cadmium and Cobalt Cations on a Titanium Phosphate-Based Sorbent. <b>2021</b> , 95, 2132-2137	
142	Biosorption of Toxic Metals. 68	
141	Adsorption Characteristics of Cobalt(II) and Nickel(II) Onto Diatomite and Amberlite 252 Zr Resin from Aqueous Solutions. <b>2009</b> , 211-217	
140	Adsorption Behavior Of Methylene Blue Dye Using Carob Powder as Eco-Friendly New Adsorbent For Cleaning Wastewater: Optimization By Response Surface Methodology.	
139	Arsenic(V) removal from aqueous solutions using ferromagnetic activated carbon: equilibrium and kinetic studies. <b>2019</b> , 32, 179	3
138	Studies on Water Quality of Mokokchung District, Nagaland, India, and Removal of Trace Elements Using Activated Carbon Prepared from Locally Available Bio-waste. <b>2019</b> , 1687-1717	
137	Environmental Treatment Technologies: Adsorption. <b>2019</b> , 1367-1397	2

136	Adsorption of lead, copper and zinc in a multi-metal aqueous solution by waste rubber tires for the design of single batch adsorber. <b>2021</b> , 7, e08254	5
135	Modern Carbon-Based Materials for Adsorptive Removal of Organic and Inorganic Pollutants from Water and Wastewater. <b>2021</b> , 26,	4
134	Chromium Adsorption from Aqueous Solution onto Dowex Retardion 11A8 and Amberlite IRA 743 Free Base: An Insight into the Mechanism. <b>2020</b> , 17,	1
133	Preparation and adsorption performance of cellulose nanofibrils/polyvinyl alcohol composite gel spheres with millimeter size. <b>2022</b> , 277, 118850	1
132	The implication of adsorption preferences of ions and surfactants on the shape control of gold nanoparticles: a microscopic, atomistic perspective. <b>2021</b> , 13, 19549-19560	2
131	Mitigation of levofloxacin from aqueous media by adsorption: a review. <b>2021</b> , 7, 1	7
130	Hydrodynamics and adsorption performance of liquid-solid fluidized bed with granular activated carbon for removal of copper ions from wastewater. <b>2021</b> , 129627	2
129	Innovative method for encapsulating highly pigmented biomass from <i>Aspergillus nidulans</i> mutant for copper ions removal and recovery. <b>2021</b> , 16, e0259315	2
128	Amine-grafted walnut shell for efficient removal of phosphate and nitrate. <b>2021</b> , 1	1
127	Cellulose-Based Adsorbents for Heavy Metal Removal. <b>2021</b> , 113-142	0
126	Mechanisms and Approaches for the Removal of Heavy Metals from Acid Mine Drainage and Other Industrial Effluents. <b>2021</b> , 513-537	0
125	Efficient Adsorption of Lead Ions from Synthetic Wastewater Using Agrowaste-Based Mixed Biomass (Potato Peels and Banana Peels). <b>2021</b> , 13, 3344	2
124	Coconut flower sheath derived activated charcoal as efficient and cost effective adsorbent for crystal violet dye removal. <b>2021</b> , 134, 109077	1
123	Adsorption of cisplatin by the surface of the magnetic sensitive nanocomposite Fe <sub>3</sub> O <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> /PAA. <b>2021</b> , 12, 291-300	1
122	Adsorption of Acid Blue 25 on Agricultural Wastes: Efficiency, Kinetics, Mechanism, and Regeneration. <b>2021</b> , 14, 117862212110574	1
121	The preparation and characterization of calcined diatomite with high adsorption properties by CaO hydrothermal activation. <b>2022</b> , 636, 128134	1
120	Kinetic and Thermodynamic Study of the Dephosphation of Wastewater by Clay Materials from Congo. <b>2021</b> , 11, 1307-1323	0
119	Investigation of biosorption process of barium radionuclides on pomegranate peel; isotherms, kinetics and mechanism. <b>2022</b> , 331, 807	0

118	Using thiol-functionalized montmorillonites for chemically immobilizing Hg in contaminated water and soil: A comparative study of intercalation and grafting functionalization. <b>2022</b> , 216, 106381	1
117	Hexnut[12]arene and its derivatives: Synthesis, host-guest properties, and application as nonporous adaptive crystals. <b>2022</b> , 65, 539	0
116	Analysis of commonly used batch adsorption kinetic models derived from mass transfer-based modelling.. <b>2022</b> , 1	1
115	Use of brewery spent grains as a biosorbent for reactive blue 5G dye removal: batch and continuous flow studies. 1-18	
114	Individual and Competitive Adsorption of Negatively Charged Acid Blue 25 and Acid Red 1 onto Raw Indonesian Kaolin Clay.	1
113	Hierarchical ternary ZnCoFe layered double hydroxide as efficient adsorbent and catalyst for methanol electrooxidation. <b>2022</b> , 17, 1922-1941	2
112	Surface ion imprinted bagasse for selective removal of Cu (II) from the leaching solution of electroplating sludge. <b>2022</b> , 639, 128394	1
111	Temperature-pressure coupling effect on gas desorption characteristics in coal during low-variable temperature process. <b>2022</b> , 211, 110104	0
110	Structural, magnetic and adsorptive properties of nano spinel of cobalt aluminate doped with nickel for Cr(VI) removal. <b>2022</b> , 1255, 132412	1
109	Removal of hazardous dyes and waterborne pathogens using nanoengineered bioadsorbent from hemp - Fabrication, characterization and performance investigation. <b>2022</b> , 29, 101797	0
108	The effect of chemical and thermal modifications on the biosorption of uranium in aqueous solutions using winery wastes. <b>2022</b> , 351, 118665	0
107	Synthesis of activated carbons from water hyacinth biomass and its application as adsorbents in water pollution control. <b>2022</b> , 6-6	0
106	Adsorption of copper from aqueous solutions by activated carbon prepared from peach wood. 1	
105	Sorption of Fluoride and Bacterial Disinfection Property of Biosynthesized Nanofibrous Cellulose Decorated Ag-MgO-Nanohydroxyapatite Composite for Household Water Treatment.. <b>2022</b> , 14,	
104	Potentialities of Agro-Based Wastes to Remove Cd, Hg, Pb, and As from Contaminated Waters. <b>2022</b> , 233, 1	1
103	Biochar for removal of dyes in contaminated water: an overview. <b>2022</b> , 4, 1	12
102	Contaminants of emerging concern (CECs) adsorption on superfine activated carbon.	
101	Adsorption Behavior and Dynamic Interactions of Anionic Acid Blue 25 on Agricultural Waste.. <b>2022</b> , 27,	0

100	Application of GSKB Model in Leather Making: Quantification of the Environmental Efficiency of a Green Solvent Based Deliming Process.	
99	Fabrication of hydroxyapatite embedded cerium-organic frameworks for fluoride capture from water. <b>2022</b> , 354, 118830	4
98	Removal of arsenic by metal organic framework/chitosan/carbon nanocomposites: Modeling, optimization, and adsorption studies.. <b>2022</b> , 208, 794-808	0
97	Sequestration of heavy metals from contaminated water using magnetic carbon nanocomposites. <b>2022</b> , 6, 100066	1
96	Multivariable optimization of activated carbon production from microwave pyrolysis of brewery wastes - Application in the removal of antibiotics from water.. <b>2022</b> , 431, 128556	1
95	Smart and regeneratable Xanthan gum hydrogel adsorbents for selective removal of cationic dyes. <b>2022</b> , 10, 107620	1
94	Mesoporous LaFeO <sub>3</sub> nanoparticles decorated onto activated carbon from agricultural waste (Synthesis, characterization and adsorption properties). <b>2022</b> , 1260, 132822	0
93	Anti-microbial and methylene blue dye adsorption properties of cotton fabrics modified with TiO <sub>2</sub> , Fe, Ag-doped TiO <sub>2</sub> , and graphene oxide nanomaterials. 004051752110661	0
92	The Influence of the Structure of Pectin Substances of Flax Fodder Supplements on Absorption Binding of Azaheterocyclic Mycotoxins. <b>2021</b> , 91, S60-S83	1
91	Extraction of silver ions from aqueous solutions by MnO(OH) particles. <b>2022</b> , 29,	
90	Explorations on Thermodynamic and Kinetic Performances of Various Cationic Exchange Durations for Synthetic Clinoptilolite.. <b>2022</b> , 27,	
89	Statistical and physical interpretation of dye adsorption onto low-cost biomass by using simulation methods. <b>2022</b> , 646, 128969	0
88	Kinetics of the Sorption of Theophylline in Pectin Hydrogels with Different Structural Properties. <b>2022</b> , 96, 773-780	1
87	Adsorption of doxorubicin on the surface of magnetically sensitive nanocomposite Fe <sub>3</sub> O <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> /E1-18	
86	Eu(III) removal from aqueous solutions using raw and modified pomegranate peel as biosorbents.	0
85	Basic blue 41 dye removal from aqueous solution using lignocellulosic material: kinetics, equilibrium and statistical design optimization.	2
84	Kinetics of micronutrients and S adsorption onto phyto-biochars: influence of pyrolysis temperatures and properties of phyto-biochars. 1	0
83	Copper(II) ions removal from model galvanic wastewater by green one-pot synthesised amino-hyphosphite polyampholyte.. <b>2022</b> , 436, 129047	1

82	Cost-effective ecofriendly nanoparticles for rapid and efficient indigo carmine dye removal from wastewater: Adsorption equilibrium, kinetics and mechanism. <b>2022</b> , 28, 102595	3
81	Development and characterization of hydroxyapatite layered lanthanum organic frameworks by template method for defluoridation of water.. <b>2022</b> , 622, 228-238	3
80	Response surface methodology adhering central composite design for the optimization of Zn (II) adsorption using rice husk nanoadsorbent. <b>2022</b> , 139684	1
79	Adsorption of p-benzoquinone at low concentrations from aqueous media using biosolid-based activated carbon.. <b>2022</b> , 316, 115263	0
78	Simultaneous Removal of Molybdate and Chromate Ions from Industrial Wastewater using Biosorbents Derived from Stems of <i>Murraya koenigii</i> : Thermodynamics, Isothermal and Kinetic Investigations. <b>2022</b> , 34, 1391-1400	
77	Simple bio-sorbents derived from <i>Mimusops elengi</i> plant for the effective removal of molybdate from industrial wastewater.	0
76	Comparative Evaluation of the Adsorption Performance of Citric Acid-Treated Peels of <i>Trapa natans</i> and <i>Citrullus lanatus</i> for Cationic Dyes Degradation from Water. <b>2022</b> , 2022, 1-19	1
75	Recycling of solid waste biosorbents for removal of nitrates from contaminated water. <b>2022</b> , 100014	0
74	Removal of anti-inflammatory drugs using activated carbon from agro-industrial origin: current advances in kinetics, isotherms, and thermodynamic studies.	0
73	Recovery of palladium from a low grade palladium solution by anionic-ion exchange: kinetics, equilibrium, and metal competition.	
72	Investigation of Hydroxyapatite-Entrenched Cerium Organic Frameworks Incorporating Biopolymeric Beads for Efficient Fluoride Removal. <b>2022</b> , 61, 7911-7925	1
71	Plastisphere community assemblage of aquatic environment: plastic-microbe interaction, role in degradation and characterization technologies. <b>2022</b> , 17,	0
70	Efficient Removal of Nonylphenol Isomers from Water by Use of Organo-Hydrotalcites. <b>2022</b> , 19, 7214	
69	Bio-Sorbent Derived from <i>Annona Squamosa</i> for the Removal of Methyl Red Dye in Polluted Waters: A Study on Adsorption Potential. <b>2022</b> , 16, 274-283	
68	A Novel Approach for the Biological Desalination of Major Anions in Seawater Using Three Microalgal Species: A Kinetic Study. <b>2022</b> , 14, 7018	0
67	Fabrication of novel eco-friendly hybrid biocomposites based on carboxymethyl chitosan /polypropylene glycol @ activated carbon for the efficient removal of Cr (III) from the aquatic medium. <b>2022</b> , 44, 5398-5420	1
66	Enhanced removal of Indigo Carmine dye from textile effluent using green cost-efficient nanomaterial: Adsorption, kinetics, thermodynamics and mechanisms. <b>2022</b> , 29, 100753	1
65	Defluoridation using hydroxyapatite implanted lanthanum organic frameworks based bio-hybrid beads.	0

- 64 Fabrication of Novel Agrowaste (Banana and Potato Peels)-Based Biochar/TiO<sub>2</sub> Nanocomposite for Adsorption of Cr(VI), Statistical Optimization via RSM Approach. **2022**, 14, 2644 ○
- 63 The removal of iron from synthetic water by the applications of plants leaf biosorbents. **2022**, 9, 100530 ○
- 62 The removal of ammonia from contaminated water by using various solid waste biosorbents. **2022**, 7, 100119 1
- 61 Change in adsorption behavior of aquatic humic substances on microplastic through biotic and abiotic aging processes. **2022**, 843, 157010 ○
- 60 Adsorption mechanisms of metal ions (Pb, Cd, Cu) onto polyamide 6 microplastics: New insight into environmental risks in comparison with natural media in different water matrices. **2022**, 110, 214-225 ○
- 59 Economic and facile approach for synthesis of graphene/titanate nanocomposite for water reclamation. **2022**, 104052 ○
- 58 Effective adsorption of methylene blue from aqueous solution by coal gangue-based zeolite granules in a fluidized bed: Fluidization characteristics and continuous adsorption. **2022**, 117764 ○
- 57 Dynamics and thermodynamics for competitive adsorptive removal of methylene blue and rhodamine B from binary aqueous solution onto durian rind. **2022**, 194, ○
- 56 Bentonite-PDMS composite foams for oil spill recovery: Sorption performance and kinetics. 1
- 55 Promising applications of seedcake of *Jatropha curcas* plants: bioethanol production and bio-sorbent material for dye and heavy metal removal. ○
- 54 Sorption of Ammonium Ions from Aqueous Solutions on the Ash and Slag of a CHP Plant. **2022**, 56, 276-284
- 53 A review on adsorption mediated phosphate removal and recovery by biomatrices. **2022**, 99, 100682
- 52 Synthesis and characterization of mango leaves biosorbents for removal of iron and phosphorous from contaminated water. **2022**, 11, 100292 ○
- 51 SnCl<sub>2</sub> Treated Red Mud as an Effective Adsorbent for the Removal of Toxic Molybdate Ions from Industrial Wastewater. **2022**, 34, 2703-2709 ○
- 50 Sorption Selectivity of Palladium(II) by Poly(N-2-Sulfoethylallylamine) under Static and Dynamic Conditions. **2022**, 95, 451-459 ○
- 49 Efficient removal of polybrominated diphenyl ethers from soil washing effluent by dummy molecular imprinted adsorbents: Selectivity and mechanisms. **2022**, ○
- 48 Applications of Plants Leaf-Based Biosorbents for Removal of Iron and Phosphorus from Contaminated Water: A Review. ○
- 47 Chromium(III) Removal from Nickel(II)-Containing Waste Solutions as a Pretreatment Step in a Hydrometallurgical Process. **2022**, 15, 6217 1



46	Adsorption of Metformin on Activated Carbon Produced from the Water Hyacinth Biowaste Using H <sub>3</sub> PO <sub>4</sub> as a Chemical Activator. <b>2022</b> , 14, 11144	2
45	Removal efficiency and adsorption mechanisms of CeO <sub>2</sub> nanoparticles onto granular activated carbon used in drinking water treatment plants. <b>2022</b> , 159261	1
44	Insights into synergistic utilization of residual of ternary layered double hydroxide after oxytetracycline as a potential catalyst for methanol electrooxidation. <b>2022</b> , 188, 249-264	0
43	Novel magnetic graphoxide/biochar composite derived from tea for multiple SAs and QNs antibiotics removal in water.	0
42	Thermal treated sugarcane bagasse for acetylsalicylic acid removal: dynamic and equilibrium studies, cycles of reuse and mechanisms. 1-17	0
41	The environmental remediation capacity of <i>Ulva lactuca</i> : The potential of macroalgae to reduce the threats caused by Titanium in marine invertebrate species. <b>2022</b> , 159586	0
40	Adsorption Behavior of Nonylphenol on Polystyrene Microplastics and Their Cytotoxicity in Human Caco-2 Cells. <b>2022</b> , 14, 3288	0
39	Enhanced and fast fluoride adsorption using cerium organic frameworks based hydroxalcite hybrid material. <b>2022</b> ,	0
38	Simple adsorptive removal of Crystal violet, a triarylmethane dye, from synthetic wastewater using Fe (III) treated pine needle biochar.	0
37	Carbon capture of biochar produced by microwave co-pyrolysis: adsorption capacity, kinetics, and benefits.	0
36	Investigation on Purification of Saturated LiNO <sub>3</sub> Solution Using Titanium Phosphate Ion Exchanger: Kinetics Study. <b>2022</b> , 23, 13416	0
35	Elucidating the crystal structure-dependent Cd <sup>2+</sup> -uptake property of benzimidazolium ionic liquid immobilized into macroporous polystyrene. <b>2022</b> , 108900	0
34	Adsorption mechanism of basic blue-9 onto quartz mineral: kinetics, isotherms and thermodynamic. <b>2022</b> , 9, 115501	0
33	A novel biosorbent functionalized pillar[5]arene: Synthesis, characterization and effective biosorption of Cr(VI). <b>2023</b> , 857, 159312	1
32	Kinetic and Thermodynamic Study of Phenol Removal from Water Using Activated Carbon Synthesized from Avocado Kernel Seed. 54, 42-57	0
31	Novel adsorptive methods for the effective arsenic(III) removal from polluted water.	0
30	Na-alginate, polyaniline and polypyrrole composites with cellulosic biomass for the adsorptive removal of herbicide: Kinetics, equilibrium and thermodynamics studies. <b>2022</b> , 104399	0
29	Modified tailings of weathered crust elution-deposited rare earth ores as adsorbents for recovery of rare earth ions from solutions: Kinetics and thermodynamics studies. <b>2023</b> , 191, 107937	1

- 28 Adsorption of BTX from produced water by using ultrasound-assisted combined multi-template imprinted polymer (MIPs); factorial design, isothermal kinetics, and Monte Carlo simulation studies. **2023**, 370, 121079 ○
- 27 A comparative study of adsorption behavior of rifampicin, streptomycin, and ibuprofen contaminants from aqueous solutions onto chitosan: Dynamic interactions, kinetics, diffusions, and mechanisms. **2023**, 9, 100199 1
- 26 Removal of Metals by Biomass Derived Adsorbent in Its Granular and Powdered Forms: Adsorption Capacity and Kinetics Analysis. **2022**, 3, 535-550 ○
- 25 WITHDRAWN: Characteristic and Biosorption Capacities of Plant Leaf Biosorbents for Removal of Phosphorous from Contaminated Water. **2022**, 100006 ○
- 24 The Chemically Modified Leaves of Pteris vittata as Efficient Adsorbent for Zinc (II) Removal from Aqueous Solution. **2022**, 14, 4039 ○
- 23 Low-cost agricultural wastes (orange peels) for the synthesis and characterization of activated carbon biosorbents in the removal of pharmaceuticals in multi-component mixtures from aqueous matrices. **2022**, 368, 120795 1
- 22 Oil Adsorption Kinetics of Calcium Stearate-Coated Kapok Fibers. **2023**, 15, 452 ○
- 21 Novel magnetic graphoxide/biochar composite derived from tea for multiple SAs and QNs antibiotics removal in water. ○
- 20 Effective adsorption of ammonium nitrogen by sulfonic-humic acid char and assessment of its recovery for application as nitrogen fertilizer. **2023**, 867, 161591 ○
- 19 Synthesis of bimetallic FeMn nanoparticles using rooibos tea extract: characterization and application. ○
- 18 Coulombic Surface-Ion Interactions Induce Nonlinear and Chemistry-Specific Charging Kinetics. **2023**, 130, ○
- 17 Biosorption of toxic metal ions (Cr+6, Cd2+) and nutrients (PO43-) from aqueous solution by diatom biomass. 1-15 ○
- 16 Micropore sites in ferrihydrite are responsible for its higher affinity towards As(III) relative to As(V). **2023**, 348, 27-40 ○
- 15 Insights into matrix and competitive effects on antibiotics removal from wastewater by activated carbon produced from brewery residues. **2023**, 30, 103074 ○
- 14 Nanoplastics pose a greater effect than microplastics in enhancing mercury toxicity to marine copepods. **2023**, 325, 138371 ○
- 13 An insight into the sorption kinetics of boscalid onto soils: Effect of general soil properties. **2023**, 325, 138274 ○
- 12 Sorption of bisphenol A onto microplastics and associated environmental risks in comparison to engineered carbonous materials and natural media. **2023**, 117, 295-306 ○
- 11 Adsorption mechanism of Cr(VI) on woody-activated carbons. **2023**, 9, e13267 ○

- 10 Design of hydrotalcite and biopolymers entrapped tunable cerium organic cubic hybrid material for superior fluoride adsorption. **2023**, 224, 113190 ○
- 9 Isotherm and kinetic studies of cadmium biosorption and its adsorption behaviour in multi-metals solution using dead and immobilized archaeal cells. **2023**, 13, ○
- 8 Fast Removal of Tetracycline from Aqueous Solution by Aluminosilicate Zeolite Nanoparticles with High Adsorption Capacity. **2023**, 3, 838-847 ○
- 7 Simple adsorptive removal of crystal violet, a triarylmethane dye, from synthetic wastewater using Fe (III)-treated pine needle biochar. **2023**, 195, ○
- 6 MgAl-NO<sub>3</sub> LDH: Adsorption Isotherms and Multivariate Optimization for Cr(VI) Removal. **2023**, 5, 633-645 ○
- 5 Impacts of controlled microwave field irradiation on o-cresol and p-cresol adsorption capability of activated carbon. 1-20 ○
- 4 Structure Features and Physicochemical Performances of Fe-Contained Clinoptilolites Obtained via the Aqueous Exchange of the Balanced Cations and Isomorphs Substitution of the Heulandite Skeletons for Electrocatalytic Activity of Oxygen Evolution Reaction and Adsorptive Performance of CO<sub>2</sub>. **2023**, 28, 2889 ○
- 3 Enterosorbents Based on Rhubarb Biomass with a Hybrid Polymer-Inorganic Coating for the Immobilization of Azaheterocyclic Mycotoxins. **2023**, 13, 684 ○
- 2 Potential applicability of *Jatropha curcas* leaves in bioethanol production and their composites with polymer in wastewater treatment. ○
- 1 Fabricated design of hydrotalcite embedded lanthanum organic frameworks for defluoridation of water. ○