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Critical review in adsorption kinetic models

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1072	Removal of perfluorooctane sulfonate from aqueous solution by crosslinked chitosan beads: sorption kinetics and uptake mechanism. 2011 , 102, 2265-71		119
1071	Hydrous iron oxide for removal of inorganic contaminants in simulated stormwater: A batch sorption kinetics study. 2011 , 28, 1706-1712		5
1070	Adsorption of food dyes onto chitosan: Optimization process and kinetic. <i>Carbohydrate Polymers</i> , 2011 , 84, 231-238	10.3	162
1069	A fundamental approach in liquid phase adsorption kinetics. 2011 , 92, 2123-2126		3
1068	Removal of metals from aqueous solution and sea water by functionalized graphite nanoplatelets based electrodes. 2011 , 185, 322-8		26
1067	Adsorption of food dyes acid blue 9 and food yellow 3 onto chitosan: stirring rate effect in kinetics and mechanism. 2011 , 187, 164-70		180
1066	The role of functionalised multiwalled carbon nanotubes based supercapacitor for arsenic removal and desalination of sea water. 2012 , 7, 85-97		8
1065	Assessing structure and dynamics of fibrinogen films on silicon nanofibers: towards hemocompatibility devices. 2012 , 8, 6582		11
1064	Kinetics modelling of Cu(II) biosorption on to coconut shell and Moringa oleifera seeds from tropical regions. 2012 , 33, 409-17		26
1063	Fixed-Bed and Stirred-Tank Studies of Manganese Sorption by Calcite Limestone. 2012 , 120913092229000		1

1062	Novel Polymeric Adsorbents Bearing Amide, Pyridyl, Azomethine and Thiourea Binding Sites for the Removal of Cu(II) and Pb(II) Ions from Aqueous Solution. 2012 , 48, 254-262	15
1061	Sorption Study of a Basic Dye [Cientian Violet] From Aqueous Solutions Using Activated Bentonite. 2012 , 18, 924-933	22
1060	Polyaniline-magnetite nanocapsules based nanocomposite for carbon dioxide adsorption. 2012 , 10, 486-493	21
1059	Analysis of mass transfer kinetics in the biosorption of synthetic dyes onto <i>Spirulina platensis</i> nanoparticles. 2012 , 68, 85-90	58
1058	Ultrahigh arsenic sorption using iron oxide-graphene nanocomposite supercapacitor assembly. 2012 , 112, 104315	22
1057	Removal of diclofenac sodium from aqueous solution by Isabel grape bagasse. 2012 , 192, 114-121	157
1056	Optimization and kinetic analysis of food dyes biosorption by <i>Spirulina platensis</i> . 2012 , 91, 234-41	46
1055	Mine water treatment with limestone for sulfate removal. 2012 , 221-222, 45-55	76
1054	A kinetic model for the adsorption of gold from I2/I3 solutions onto a porous polymer membrane. 2012 , 124, 1695-1706	
1053	Poly(glutaraldehyde)-stabilized fish scale fibrillar collagen-some features of a new material for heavy metal sorption. 2012 , 124, 3208-3221	9
1052	Removal of dyes using agricultural waste as low-cost adsorbents: a review. 2013 , 3, 773-790	279
1051	The relevance of bisphenol A adsorption during Fenton oxidation. 2013 , 10, 1141-1148	5
1050	Equilibrium and kinetic studies of the adsorption of sodium dodecyl sulfate from aqueous solution using bone char. 2013 , 109, 433-446	11
1049	Modelling and optimization of chromium(III) biosorption on soybean meal. 2013 , 11, 1505-1517	10
1048	Adsorption of Myricetrin, Puerarin, Naringin, Rutin, and Neohesperidin Dihydrochalcone Flavonoids on Macroporous Resins. 2013 , 58, 2527-2537	19
1047	Adsorption of alkaloids on ordered mesoporous carbon. 2013 , 408, 181-90	33
1046	Adsorption of volatile aroma compound 2-phenylethanol from synthetic solution onto granular activated carbon in batch and continuous modes. 2013 , 117, 370-377	16
1045	Application of chitosan films for the removal of food dyes from aqueous solutions by adsorption. 2013 , 214, 8-16	124

1044	Kinetic studies on the biosorption of phenol by nanoparticles from <i>Spirulina</i> sp. LEB 18. 2013 , 1, 1137-1143	57
1043	Competitive adsorption and transport of phthalate esters in the clay layer of JiangHan plain, China. 2013 , 92, 1542-9	38
1042	Synthesis and Evaluation of a Novel Hybrid Polymer Containing Manganese and Iron Oxides as a Sorbent for As(III) and As(V) Removal. 2013 , 52, 6453-6461	28
1041	Montmorillonite nanodevices for the colon metronidazole delivery. 2013 , 457, 224-36	62
1040	Adsorption of carotenes and phosphorus from palm oil onto acid activated bleaching earth: Equilibrium, kinetics and thermodynamics. 2013 , 118, 341-349	67
1039	Reverse-biomineralization assembly of acid-sensitive biomimetic fibers for hard tissue engineering and drug delivery. 2013 , 1, 3694-3704	12
1038	Utilization of Coconut Milk Processing Waste as a Low-Cost Mercury Sorbent. 2013 , 52, 15648-15657	35
1037	Comparison of new biosorbents based on chemically modified <i>Lagenaria vulgaris</i> shell. 2013 , 51, 6871-6881	16
1036	Influence of soil copper content on the kinetics of thiram adsorption and on thiram leachability from soils. 2013 , 90, 432-40	8
1035	Adsorption of selected endocrine disrupting compounds and pharmaceuticals on activated biochars. 2013 , 263 Pt 2, 702-10	244
1034	Hyperscrosslinked poly(styrene-co-divinylbenzene) resin as a specific polymeric adsorbent for purification of berberine hydrochloride from aqueous solutions. 2013 , 400, 78-87	24
1033	Asymmetric Capacitive Deionization Utilizing Low Surface Area Carbon Electrodes Coated with Nanoporous Thin-Films of Al ₂ O ₃ and SiO ₂ . 2013 , 160, E71-E78	33
1032	Adsorption isotherm, kinetic and thermodynamic studies of activated carbon prepared from <i>Garcinia mangostana</i> shell. 2013 , 8, 811-818	13
1031	Synthesis, adsorption and selectivity studies of N-propyl quaternized magnetic poly(4-vinylpyridine) for hexavalent chromium. 2013 , 116, 670-7	38
1030	Prussian blue caged in alginate/calcium beads as adsorbents for removal of cesium ions from contaminated water. 2013 , 258-259, 93-101	132
1029	Cadmium removal from aqueous solution using microwaved olive stone activated carbon. 2013 , 1, 589-599	92
1028	Cationic polymer-immobilized polysulfone-based fibers as high performance sorbents for Pt(IV) recovery from acidic solutions. 2013 , 263 Pt 2, 391-7	38
1027	Dye Adsorption by Leather Waste: Mechanism Diffusion, Nature Studies, and Thermodynamic Data. 2013 , 58, 873-882	38

1026	Adsorption of Pb(II) ions from aqueous solutions by carbon nanotubes oxidized different methods. 2013 , 19, 2064-2071		35
1025	Adsorption of Cr (VI) by chitosan with different deacetylation degrees. 2013 , 51, 7690-7699		28
1024	Solid-phase extraction of long-chain fatty acids from aqueous solution. <i>Separation and Purification Technology</i> , 2013 , 106, 1-7	8.3	6
1023	Kinetics of lipase recovery from the aqueous phase of biodiesel production by macroporous resin adsorption and reuse of the adsorbed lipase for biodiesel preparation. 2013 , 52, 226-33		17
1022	A review on zinc and nickel adsorption on natural and modified zeolite, bentonite and vermiculite: examination of process parameters, kinetics and isotherms. 2013 , 252-253, 428-61		313
1021	Removal of heavy metal ions from aqueous solutions with multi-walled carbon nanotubes: Kinetic and thermodynamic studies. 2013 , 10, 677-688		68
1020	Hexavalent chromium removal by various adsorbents: Powdered activated carbon, chitosan, and single/multi-walled carbon nanotubes. <i>Separation and Purification Technology</i> , 2013 , 106, 63-71	8.3	239
1019	On the Kinetics of Ionic Liquid Adsorption onto Activated Carbons from Aqueous Solution. 2013 , 52, 2969-2976		28
1018	Adsorption of Berberine Hydrochloride, Ligustrazine Hydrochloride, Colchicine, and Matrine Alkaloids on Macroporous Resins. 2013 , 58, 1271-1279		18
1017	Kinetic control of contaminant release from NAPLs--information potential of concentration time profiles. 2013 , 179, 301-14		7
1016	Organic acids pretreatment effect on Rosa bourbonia phyto-biomass for removal of Pb(II) and Cu(II) from aqueous media. 2013 , 132, 446-52		141
1015	Zinc removal from aqueous solutions by adsorption onto bentonite. 2013 , 51, 5035-5048		16
1014	Kinetic, equilibrium and thermodynamic modelling of the sorption of metals from aqueous solution by a silica polyamine composite. 2013 , 39,		5
1013	Preparation of Shaped Carbon Nanotube Composites with Porous Structures. 2013 , 829, 46-51		1
1012	Volumes and issues. 2013 , 4, 25		8
1011	Kinetics and Mechanism of Cr(VI) Sorption from Aqueous Solution on a Modified Lignocellulosic Material. 2013 , 30, 672-680		5
1010	Comparison of activated carbon prepared from olive stones by microwave and conventional heating for iron (II), lead (II), and copper (II) removal from synthetic wastewater. 2013 , 33, n/a-n/a		16
1009	Complex Electrical Measurements on an Undisturbed Soil Core: Evidence for Improved Estimation of Saturation Degree from Imaginary Conductivity. 2013 , 12, vzt2013.03.0059		14

1008	Separation of lysozyme with magnetically stabilized spherical hydroxyapatite microcomposites in a continuous flow system. 2013 , 130, 1602-1610	3
1007	Manganese Coated Sand for Copper (II) Removal from Water in Batch Mode. 2013 , 5, 1487-1501	8
1006	Nitrate removal from aqueous solution using natural zeolite-supported zero-valent iron nanoparticles. 2014 , 9, 224-232	17
1005	Effect of humic acid on as redox transformation and kinetic adsorption onto iron oxide based adsorbent (IBA). 2014 , 11, 10710-36	15
1004	Investigation of Safranin O adsorption on superparamagnetic iron oxide nanoparticles (SPION) and multi-wall carbon nanotube/SPION composites. 2014 , 52, 6966-6975	11
1003	Nanofer ZVI: Morphology, Particle Characteristics, Kinetics, and Applications. 2014 , 2014, 1-11	19
1002	Kinetics of CO ₂ Adsorption on Microwave Palm Shell Activated Carbon. 2014 , 1043, 224-228	4
1001	Effective Photodegradation of Methyl Orange Using Fluidized Bed Reactor Loaded with Cross-Linked Chitosan Embedded Nano-CdS Photocatalyst. 2014 , 2014, 1-16	15
1000	Adsorption of bisphenol A based on synergy between hydrogen bonding and hydrophobic interaction. 2014 , 30, 13861-8	71
999	A generalized Langmuirian approach in adsorption kinetic modeling. 2014 , 52, 7654-7659	3
998	Removal of hexavalent chromium from aqueous solution using biomass derived fly ash from Waste-to-Energy power plant. 2014 , 52, 7845-7855	14
997	Sorption and desorption of alcohol sulfate surfactants in an agricultural soil. 2014 , 33, 508-15	4
996	Adsorption-Desorption Characteristics of E.coli by Quartz Sands of Different Particle Size. 2014 , 955-959, 436-444	1
995	Modified Multiwalled Carbon Nanotubes for Treatment of Some Organic Dyes in Wastewater. 2014 , 2014, 1-10	18
994	Sorption kinetics of sulphate ions on quaternary ammonium-modified rice straw. 2014 , 20, 2603-2609	12
993	Adsorption of mercury ions from synthetic and real wastewater aqueous solution by functionalized multi-walled carbon nanotube with both amino and thiolated groups. 2014 , 237, 217-228	234
992	Arsenate adsorption on waste eggshell modified by goethite, γ -MnO ₂ and goethite/ γ -MnO ₂ . 2014 , 237, 430-442	64
991	Hexavalent chromium adsorption on superparamagnetic multi-wall carbon nanotubes and activated carbon composites. 2014 , 92, 2725-2733	90

990	Microwave irradiated and thermally heated olive stone activated carbon for nickel adsorption from synthetic wastewater: A comparative study. 2014 , 60, 237-250		28
989	Utilization of magnesium and zinc oxide nano-adsorbents as potential materials for treatment of copper electroplating industry wastewater. 2014 , 2, 642-651		67
988	Kinetic and thermodynamic studies of Hg(II) adsorption onto MCM-41 modified by ZnCl ₂ . 2014 , 301, 568-575		71
987	Recovery of precious metals from ammoniacal thiosulfate solutions by hybrid mesoporous silica: 1-Factors affecting gold adsorption. <i>Separation and Purification Technology</i> , 2014 , 127, 84-96	8.3	30
986	The extraction of Pt, Pd and Au from an alkaline cyanide simulated heap leachate by granular activated carbon. 2014 , 55, 11-17		29
985	Sodium cobalt hexacyanoferrate encapsulated in alginate vesicle with CNT for both cesium and strontium removal. <i>Carbohydrate Polymers</i> , 2014 , 111, 477-84	10.3	48
984	Diffusional mass transfer model for the adsorption of food dyes on chitosan films. 2014 , 92, 2324-2332		65
983	Adsorption of Cu (II) ions from water by carbon nanotubes oxidized with UV-light and ultrasonication. 2014 , 199, 559-564		19
982	How do the HSDM and Boyd's model compare for estimating intraparticle diffusion coefficients in adsorption processes. 2014 , 20, 737-746		91
981	Batch and fixed-bed assessment of sulphate removal by the weak base ion exchange resin Amberlyst A21. 2014 , 280, 209-15		38
980	Magnetic Multi-Wall Carbon Nanotubes for Methyl Orange Removal from Aqueous Solutions: Equilibrium, Kinetic and Thermodynamic Studies. 2014 , 49, 1389-1400		20
979	STUDY OF HG(II) REMOVAL FROM AQUEOUS SOLUTION USING LIGNOCELLULOSIC COCONUT FIBER BIOSORBENTS: EQUILIBRIUM AND KINETIC EVALUATION. 2014 , 201, 1198-1220		22
978	Deeper insights into fractal concepts applied to liquid-phase adsorption dynamics. 2014 , 128, 412-416		16
977	Magnetic composite an environmental super adsorbent for dye sequestration [A review]. 2014 , 1-2, 36-49		106
976	Fundamental aspects related to batch and fixed-bed sulfate sorption by the macroporous type 1 strong base ion exchange resin Purolite A500. 2014 , 145, 106-12		11
975	Mechanism of dialkyl phthalates removal from aqueous solution using β -cyclodextrin and starch based polyurethane polymer adsorbents. <i>Carbohydrate Polymers</i> , 2014 , 114, 440-449	10.3	60
974	Adsorption of indium(III) ions from aqueous solution using chitosan-coated bentonite beads. 2014 , 277, 120-6		87
973	Functionalized CMK-3 mesoporous carbon with 2-amino-5-mercapto-1,3,4-thiadiazole for Hg(II) removal from aqueous media. 2014 , 26, 1541-8		26

972	Enhanced Biosorptive Remediation of Hexavalent Chromium Using Chemotailored Biomass of a Novel Soil Isolate <i>Bacillus aryabhatai</i> ITBHU02: Process Variables Optimization through Artificial Neural Network Linked Genetic Algorithm. 2014 , 53, 3669-3681	17
971	Adsorption and diffusivity of CO ₂ in phosphonium ionic liquid modified silica. 2014 , 246, 79-87	41
970	Assessment of porous carbons derived from sustainable palm solid waste for carbon dioxide capture. 2014 , 71, 148-157	93
969	Surface oxidation of activated carbon pellets by hydrogen peroxide for preparation of CO ₂ adsorbent. 2014 , 20, 2130-2137	18
968	Adsorption Kinetics and Isotherms: A Safe, Simple, and Inexpensive Experiment for Three Levels of Students. 2014 , 91, 560-565	16
967	Silica functionalized with 1-propyl-3-methylimidazolium chloride as an efficient adsorbent for the removal of Eosin Yellow and Reactive Blue 4. 2014 , 254, 324-332	20
966	Inorganically modified diatomite as a potential prolonged-release drug carrier. 2014 , 42, 412-20	16
965	Cysteine-grafted nonwoven geotextile: a new and efficient material for heavy metals sorption--Part B. 2014 , 143, 99-105	11
964	The study of zinc ions binding to casein. 2014 , 120, 21-7	35
963	Kinetic Parameters and Mechanism of Zn (II) Adsorption on Lignite and Coconut Shell Based Activated Carbon Fiber. 2014 , 18,	3
962	Removal of cationic dye methylene blue (MB) from aqueous solution by ground raw and base modified pine cone powder. 2014 , 71, 1507-1519	54
961	Oxidation and adsorption of arsenic species by means of hybrid polymer containing manganese oxides. 2014 , 131, n/a-n/a	10
960	Cation-assisted adsorption of chlorophenols by nano-xerogels. 2015 , 93, 2214-2221	5
959	Role of root exudates on the sorption of arsenate by ferrihydrite. 2015 , 66, 813-822	3
958	Effect of pH on sorption kinetic process of acidic herbicides in a volcanic soil. 2015 , 0-0	2
957	Kinetics and Mechanisms of Phosphorus Adsorption in Soils from Diverse Ecological Zones in the Source Area of a Drinking-Water Reservoir. 2015 , 12, 14312-26	18
956	A Novel Approach for the Removal of Lead(II) Ion from Wastewater Using Mucilaginous Leaves of <i>Diceriocaryum eriocarpum</i> Plant. 2015 , 7, 14026-14041	39
955	Silica gel matrix immobilized <i>Chlorophyta hydrodictyon africanum</i> for the removal of methylene blue from aqueous solutions: Equilibrium and kinetic studies. 2015 , 14, 2463-2471	4

954	Continuous Modeling of Arterial Platelet Thrombus Formation Using a Spatial Adsorption Equation. 2015 , 10, e0141068		14
953	Heavy Metal Adsorption onto <i>Kappaphycus</i> sp. from Aqueous Solutions: The Use of Error Functions for Validation of Isotherm and Kinetics Models. 2015 , 2015, 126298		47
952	Highly Efficient Phosphate Sequestration in Aqueous Solutions Using Nanomagnesium Hydroxide Modified Polystyrene Materials. 2015 , 54, 2940-2949		40
951	Theoretical investigation of cross flow ultrafiltration by mixed matrix membrane: A case study on fluoride removal. 2015 , 365, 347-354		11
950	A mathematical model for competitive adsorptions. <i>Separation and Purification Technology</i> , 2015 , 144, 80-89	8.3	12
949	Synthesis of CuO nanoparticles through green route using Citrus limon juice and its application as nanosorbent for Cr(VI) remediation: Process optimization with RSM and ANN-GA based model. 2015 , 96, 156-166		61
948	Kinetic, equilibrium and thermodynamic study of 2-chlorophenol adsorption onto <i>Ricinus communis</i> pericarp activated carbon from aqueous solutions. 2015 , 8, 1-12		41
947	Removal of cadmium and zinc ions from industrial wastewater using nanocomposites of PANI/ZnO and PANI/CoHCF: a comparative study. 2015 , 1-20		6
946	A Critical Short Review of Equilibrium and Kinetic Adsorption Models for VOCs Breakthrough Curves Modelling. 2015 , 33, 851-869		13
945	A new simplified method for estimating film mass transfer and surface diffusion coefficients from batch adsorption kinetic data. 2015 , 265, 93-99		56
944	Adsorption of toluene into commercial organoclay in liquid phase: Kinetics, equilibrium and thermodynamics. 2015 , 93, 998-1008		19
943	Adsorption of Aromatics from Base Oil over Polymeric Resins: Equilibrium and Kinetics. 2015 , 29, 1249-1256		2
942	A dynamic intraparticle model for fluid-solid adsorption kinetics. 2015 , 74, 66-74		26
941	Tetracycline-loaded biomimetic apatite: an adsorption study. 2015 , 119, 3014-24		42
940	Dy(III) recovery from dilute solutions using magnetic-chitosan nano-based particles grafted with amino acids. 2015 , 50, 2832-2848		39
939	Decontamination of ofloxacin: optimization of removal process onto sawdust using response surface methodology. 2015 , 1-9		22
938	A dynamic physicochemical model for chemical phosphorus removal. 2015 , 73, 157-70		71
937	Kinetics, thermodynamics, and isotherms studies of Cd(II) adsorption onto grape stalk. 2015 , 54, 3348-3357		2

936	Isolation of naproxen from wastewater using carbon-based magnetic adsorbents. 2015 , 12, 3541-3550	37
935	Modeling the biosorption of basic dyes from binary mixtures. 2015 , 21, 177-183	9
934	Synthesis of rambutan-like MnCo ₂ O ₄ and its adsorption performance for methyl orange. 2015 , 122, 653-663	6
933	Poly(ethylene-co-vinyl alcohol) Functional Nanofiber Membranes for the Removal of Cr(VI) from Water. 2015 , 54, 6836-6844	54
932	Kinetics and mass transfer aspects about the adsorption of tartrazine by a porous chitosan sponge. 2015 , 116, 105-117	15
931	Separation of ethanol/water liquid mixtures by adsorption on BPL activated carbon with air regeneration. <i>Separation and Purification Technology</i> , 2015 , 149, 370-380	8.3 15
930	Dye adsorption mechanisms in TiO ₂ films, and their effects on the photodynamic and photovoltaic properties in dye-sensitized solar cells. 2015 , 17, 21974-81	23
929	Accelerated Sorption Diffusion for Cu(II) Retention by Anchorage of Nano-zirconium Dioxide onto Highly charged Polystyrene Material. 2015 , 5, 10646	12
928	Taguchi optimisation approach for chromium removal in a rotating packed bed contractor. 2015 , 57, 91-97	14
927	Diethylenetriamine-functionalized chitosan magnetic nano-based particles for the sorption of rare earth metal ions [Nd(III), Dy(III) and Yb(III)]. 2015 , 22, 2589-2605	64
926	The removal of Cr (III) and Co (II) ions from aqueous solution by two mechanisms using a new sorbent (alumina nanoparticles immobilized zeolite) [Equilibrium, kinetic and thermodynamic studies. 2015 , 209, 246-257	23
925	Powdered activated carbon adsorption of two fishy odorants in water: Trans,trans-2,4-heptadienal and trans,trans-2,4-decadienal. 2015 , 32, 15-25	7
924	Synthesis of nanosilver by the hydrothermal method and its application for radioiodine sorption from alkaline solution. 2015 , 304, 1153-1162	3
923	Aging effect on the leaching behavior of heavy metals (Cu, Zn, and Cd) in red paddy soil. 2015 , 22, 11467-77	44
922	Kinetic modeling of selenium (IV) adsorption for remediation of contaminated aquatic systems based on meso-scale experiments. 2015 , 56, 1208-1216	4
921	Cysteine-Functionalized Chitosan Magnetic Nano-Based Particles for the Recovery of Light and Heavy Rare Earth Metals: Uptake Kinetics and Sorption Isotherms. 2015 , 5, 154-179	87
920	The range of validity of sorption kinetic models. 2015 , 448, 437-50	59
919	A new methodology to evaluate adsorption capacity on nanomaterials. 2015 , 17, 1	9

918	Fractal-like Vermeulen Kinetic Equation for the Description of Diffusion-Controlled Adsorption Dynamics. 2015 , 119, 8781-8785	24
917	Volatile organic compounds adsorption onto neat and hybrid bacterial cellulose. 2015 , 335, 137-146	18
916	Removal of fluoxetine from water by adsorbent materials produced from paper mill sludge. 2015 , 448, 32-40	42
915	Cooperative adsorption on solid surfaces. 2015 , 450, 224-238	98
914	Modeling, kinetic, and equilibrium characterization of paraquat adsorption onto polyurethane foam using the ion-pairing technique. 2015 , 156, 200-8	19
913	Biosorption of Organic Dyes: Research Opportunities and Challenges. 2015 , 295-329	14
912	One-step facile fabrication of sea urchin-like zirconium oxide for efficient phosphate sequestration. 2015 , 5, 91218-91224	18
911	Equilibrium, Kinetics, and Thermodynamics of Soybean Oil Deacidification Using a Strong Anion Exchange Resin. 2015 , 54, 11167-11179	8
910	Biosorption of dye from textile wastewater effluent onto alkali treated dried sunflower seed hull and design of a batch adsorber. 2015 , 3, 2647-2661	59
909	Cyanoguanidine-crosslinked chitosan to adsorption of food dyes in the aqueous binary system. 2015 , 211, 425-430	29
908	A Comparative Study of the Aqueous-Phase Adsorption of Sulfamethazine onto Commercially Available and Laboratory Developed Activated Carbon. 2015 , 113-131	
907	Fabrication of a Biomass-Based Hydrous Zirconium Oxide Nanocomposite for Preferable Phosphate Removal and Recovery. 2015 , 7, 20835-44	106
906	Unique and outstanding cadmium sequestration by polystyrene-supported nanosized zirconium hydroxides: a case study. 2015 , 5, 55445-55452	16
905	Amino Acid Functionalized Chitosan Magnetic Nanobased Particles for Uranyl Sorption. 2015 , 54, 12374-12385	57
904	Comparative studies on the olive stone activated carbon adsorption of Zn ²⁺ , Ni ²⁺ , and Cd ²⁺ from synthetic wastewater. 2015 , 54, 166-177	32
903	Microwave-assisted functionalization of Rosa Canina-L fruits activated carbon with tetraethylenepentamine and its adsorption behavior toward Ni(II) in aqueous solution: Kinetic, equilibrium and thermodynamic studies. 2015 , 274, 362-371	49
902	Copper supported on porous activated carbon obtained by wetness impregnation: Effect of preparation conditions on the ozonation catalyst's characteristics. 2015 , 18, 100-109	40
901	In liquid laser treated graphene oxide for dye removal. 2015 , 348, 85-91	21

900	Molecularly imprinted organic solvent nanofiltration membranes [Revealing molecular recognition and solute rejection behaviour. 2015 , 86, 215-224	50
899	Experimental study on mercury ions removal from aqueous solution by MnO ₂ /CNTs nanocomposite adsorbent. 2015 , 21, 221-229	100
898	Uranium extraction using magnetic nano-based particles of diethylenetriamine-functionalized chitosan: Equilibrium and kinetic studies. 2015 , 262, 198-209	98
897	Sorption of norfloxacin in soils: analytical method, kinetics and Freundlich isotherms. 2015 , 119, 310-317	68
896	High Mn ²⁺ Uptake by a New Polyvinyl Alcohol Derivative: Isotherm Model Analysis. 2015 , 50, 233-244	1
895	Adsorption kinetic and isotherm of methylene blue, safranin T and rhodamine B onto electrospun ethylenediamine-grafted-polyacrylonitrile nanofibers membrane. 2015 , 55, 1609-1619	33
894	Preparation and characterization of a novel chitosan/Al ₂ O ₃ /magnetite nanoparticles composite adsorbent for kinetic, thermodynamic and isotherm studies of Methyl Orange adsorption. 2015 , 259, 1-10	344
893	Acid-activated biochar increased sulfamethazine retention in soils. 2015 , 22, 2175-86	85
892	Chromate adsorption on acid-treated and amines-modified clay. 2015 , 5, 73-79	8
891	A novel manganese-oxide/biochar composite for efficient removal of lead(II) from aqueous solutions. 2015 , 12, 1719-1726	86
890	A critical assessment of the use of a surface reaction rate equation to correlate biosorption kinetics. 2015 , 12, 2025-2034	4
889	Banana Fibers as Sorbent for Removal of Acid Green Dye from Water. 2016 , 2016, 1-11	8
888	Role of Bioadsorbents in Reducing Toxic Metals. 2016 , 2016, 4369604	42
887	Synthesis of Potato Starch-Acrylic-Acid Hydrogels by Gamma Radiation and Their Application in Dye Adsorption. 2016 , 2016, 1-11	26
886	Morin Flavonoid Adsorbed on Mesoporous Silica, a Novel Antioxidant Nanomaterial. 2016 , 11, e0164507	34
885	Removal of methylene blue dye from artificially contaminated water using citrus limetta peel waste as a very low cost adsorbent. 2016 , 66, 154-163	162
884	A novel magnetic Preyssler acid grafted chitosan nano adsorbent: synthesis, characterization and adsorption activity. 2016 , 91, 1452-1460	44
883	Adsorption Characteristics of Phosphorus onto Soils from Water Level Fluctuation Zones of the Danjiangkou Reservoir. 2016 , 44, 975-983	7

882	Nanocomposite hydrogels for selective removal of cationic dyes from aqueous solutions. 2016 , 56, 776-785	4
881	Recovery and Separation of Metal Ions from Aqueous Solutions by Solvent-Impregnated Resins. 2016 , 39, 1377-1392	30
880	Adsorptive removal of multi-azo dye from aqueous phase using a semi-IPN superabsorbent chitosan-starch hydrogel. 2016 , 112, 274-288	86
879	Porous materials as delivery and protective agents for Vitamin A. 2016 , 6, 66495-66504	6
878	Aqueous sodium borohydride induced thermally stable porous zirconium oxide for quick removal of lead ions. 2016 , 6, 23175	18
877	Characterization of biochar prepared from slow pyrolysis of Jordanian olive oil processing solid waste and adsorption efficiency of Hg ions in aqueous solutions. 2016 , 74, 1899-1910	16
876	Adsorption Processes of Lead Ions on the Mixture Surface of Bentonite and Bottom Sediments. 2016 , 97, 876-880	3
875	Extraction behaviors of uranyl peroxo cage clusters by mesoporous silica SBA-15. 2016 , 310, 453-462	4
874	A Procedure for the Development of a Low-Cost Treatment Technology of Raw Biogas for Application in a Gas Engine. A Case of Sizing a Carbon Dioxide Removal Unit. 2016 , 203, 995-1000	
873	Adsorption kinetics and isotherms for the removal of nickel ions from aqueous solutions by an ion-exchange resin: application of two and three parameter isotherm models. 2016 , 57, 21925-21938	16
872	Surface modified spinel cobalt ferrite nanoparticles for cationic dye removal: Kinetics and thermodynamics studies. <i>Journal of Water Process Engineering</i> , 2016 , 11, 152-161	6.7 34
871	PVBC microspheres tethered with poly(3-sulfopropyl methacrylate) brushes for effective removal of Pb(II) ions from aqueous solution. 2016 , 498, 218-230	20
870	Mixed matrix nanofiber as a flow-through membrane adsorber for continuous Li ⁺ recovery from seawater. 2016 , 510, 141-154	55
869	Solar Red and Brittle Blue direct dyes adsorption onto Eucalyptus angophoroides bark: Equilibrium, kinetics and thermodynamic studies. 2016 , 4, 2431-2439	128
868	Cost effective nanofiber composite membranes for Cr(VI) adsorption with high durability. 2016 , 6, 44723-44738	
867	Kinetic models for adsorption on mineral particles comparison between Langmuir kinetics and mass transfer. 2016 , 6, 27-37	17
866	On the comparison of pseudo-first order and pseudo-second order rate laws in the modeling of adsorption kinetics. 2016 , 300, 254-263	838
865	Sorption of the herbicides diquat and difenzoquat from aqueous medium by polymeric resins in the presence of sodium dodecylsulfate: Kinetic and mechanistic study. 2016 , 51, 482-9	8

864	Selective removal of Cr(VI) from aqueous solution by polypyrrole/2,5-diaminobenzene sulfonic acid composite. 2016 , 476, 144-157	49
863	Adsorption of azo dyes from aqueous solution by the hybrid MOFs/GO. 2016 , 73, 1728-37	32
862	Application of mucilage from <i>Dicerocaryum eriocarpum</i> plant as biosorption medium in the removal of selected heavy metal ions. 2016 , 177, 365-72	29
861	Alginate beads containing water treatment residuals for arsenic removal from water-formation and adsorption studies. 2016 , 23, 24527-24539	41
860	Development of a novel nanocomposite consisting of 3-(4-methoxyphenyl)propionic acid and magnesium layered hydroxide for controlled-release formulation. 2016 , 11, 776-797	3
859	Removal of mercury(II) and cadmium(II) ions from synthetic wastewater by a newly synthesized amino and thiolated multi-walled carbon nanotubes. 2016 , 67, 397-405	49
858	Adsorption of uranium(VI) from aqueous solution using phosphonic acid-functionalized silica magnetic microspheres. 2016 , 310, 1155-1163	13
857	Fe(III)/Sn(IV) mixed binary oxide-coated sand preparation and its use for the removal of As(III) and As(V) from water: Application of isotherm, kinetic and thermodynamics. 2016 , 224, 431-441	73
856	Competitive adsorption of phthalate esters on marine surface sediments: kinetic, thermodynamic, and environmental considerations. 2016 , 23, 24991-25002	11
855	Sorption of cadmium (II) ion from aqueous solution onto sweet potato (<i>Ipomoea batatas</i> L.) peel adsorbent: Characterisation, kinetic and isotherm studies. 2016 , 4, 4207-4228	58
854	Synthesis and application of a new carboxylated cellulose derivative. Part I: Removal of Co(2+), Cu(2+) and Ni(2+) from monocomponent spiked aqueous solution. 2016 , 483, 185-200	31
853	Biosorptive Performance of <i>Bacillus arsenicus</i> MTCC 4380 Biofilm Supported on Sawdust/MnFe ₂ O ₄ Composite for the Removal of As(III) and As(V). 2016 , 1, 103-125	3
852	Treatment of Reactive Dyes from Water and Wastewater through Chitosan and its Derivatives. 2016 , 347-377	5
851	Mesoporous hybrid Zn-silicate derived from red palygorskite clay as a high-efficient adsorbent for antibiotics. 2016 , 234, 317-325	25
850	Effect of bioavailability on the fate of hydrophobic organic compounds and metal in treatment of young landfill leachate by membrane bioreactor. 2016 , 161, 390-399	23
849	What's wrong with Lagergreen pseudo first order model for adsorption kinetics?. 2016 , 306, 1138-1142	81
848	Micro-mesoporous anatase TiO ₂ nanorods with high specific surface area possessing enhanced adsorption ability and photocatalytic activity. 2016 , 235, 185-194	30
847	Mediated electrochemical oxidation of vulcanized polybutadiene/organoclay nanocomposite-characterization and kinetic study. 2016 , 131, 30-41	2

846	Heavy metals in Iberian soils: Removal by current adsorbents/amendments and prospective for aerogels. 2016 , 237, 28-42	46
845	Adsorption rate of Reactive Black 5 on chitosan based materials: geometry and swelling effects. 2016 , 22, 973-983	33
844	Mechanistic understanding of fouling of protein A chromatography resin. 2016 , 1459, 78-88	25
843	Adsorption behavior of cadmium ions onto phosphoric acid-impregnated microwave-induced mesoporous activated carbon. <i>Journal of Water Process Engineering</i> , 2016 , 14, 60-70	6.7 36
842	Specific ion effects on ion exchange kinetics in charged clay. 2016 , 509, 427-432	23
841	Preliminary assessment of the modification of polystyrene-divinylbenzene resin with lipid-tethered ligands for selective separations. 2016 , 39, 3868-3879	3
840	A preliminary batch study of sorption kinetics of Cr(VI) ions from aqueous solutions by a magnetic ion exchange (MIEX [®]) resin and determination of film/pore diffusivity. 2016 , 164, 208-218	16
839	Development of chitosan/bentonite hybrid composite to remove hazardous anionic and cationic dyes from colored effluents. 2016 , 4, 3230-3239	68
838	Fuchsine biosorption using <i>Asplenium nidus</i> biosorbent-a mechanism using kinetic and isotherm data. 2016 , 6, 98682-98692	7
837	Deciphering the mechanism and structural features of polysorbate 80 during adsorption on PLGA nanoparticles by attenuated total reflectance Fourier transform infrared spectroscopy. 2016 , 6, 108545-108557 ¹⁰	
836	Experiment and Kinetic Study of Elemental Mercury Adsorption over a Novel Chlorinated Sorbent Derived from Coal and Waste Polyvinyl Chloride. 2016 , 30, 10635-10642	22
835	Soluble hydrocarbons uptake by porous carbonaceous adsorbents at different water ionic strength and temperature: something to consider in oil spills. 2016 , 23, 11014-11024	5
834	Removal of hexavalent chromium ions using CuO nanoparticles for water purification applications. 2016 , 478, 54-62	97
833	Preparation and characterization of a composite based on polyaniline, polypyrrole and cigarette filters: adsorption studies and kinetics of phenylbutazone in aqueous media. 2016 , 6, 64450-64459	23
832	Kinetics, isotherms and multiple mechanisms of the removal for phosphate by Cl-hydrocalumite. 2016 , 129, 116-121	23
831	Polyurethane foam loaded with sodium dodecylsulfate for the extraction of 'quat' pesticides from aqueous medium: Optimization of loading conditions. 2016 , 131, 72-8	11
830	Study of Fe(III) adsorption onto Dowex-Marathon resin, as a rate determining step of the U(IV) oxidation in 235U enrichment column. 2016 , 308, 179-185	4
829	Equilibrium, kinetic, and thermodynamic studies on the biosorption of Bordeaux S dye by sericin powder derived from cocoons of the silkworm <i>Bombyx mori</i> . 2016 , 57, 5119-5129	8

828	Adsorption of arsenic (V) ions onto cellulosic-ferric oxide system: kinetics and isotherm studies. 2016 , 57, 9420-9436		21
827	Stormwater biofilters: A new validation modelling tool. 2016 , 87, 53-61		8
826	Regeneration of a perchlorate-exhausted highly selective ion exchange resin: Kinetics study of adsorption and desorption processes. <i>Separation and Purification Technology</i> , 2016 , 158, 266-274	8.3	14
825	Systematic sorption studies of camptothecin on oxidized single-walled carbon nanotubes. 2016 , 490, 121-132		9
824	BET adsorption reaction model based on the pseudo steady-state hypothesis for describing the kinetics of adsorption in liquid phase. 2016 , 467, 170-179		10
823	Response surface methodology application in optimization of cadmium adsorption by shoe waste: A good option of waste mitigation by waste. 2016 , 88, 265-275		128
822	Equilibrium, kinetics and thermodynamics study of phenols adsorption onto activated carbon obtained from lignocellulosic material (<i>Eucalyptus Globulus labillus</i> seed). 2016 , 22, 33-48		34
821	Removal of Cs ⁺ and Sr ²⁺ from water using MWCNT reinforced Zeolite-A beads. 2016 , 224, 84-88		38
820	Biosorption of copper(II) ions by methyl-sulfonated <i>Lagenaria vulgaris</i> shell: kinetic, thermodynamic and desorption studies. 2016 , 40, 2126-2134		13
819	Preparation of activated carbon from peanut shell by conventional pyrolysis and microwave irradiation-pyrolysis to remove organic dyes from aqueous solutions. 2016 , 4, 266-275		108
818	Magnetic dispersive micro solid-phase extraction for trace mercury pre-concentration and determination in water, hemodialysis solution and fish samples. 2016 , 127, 170-177		27
817	Fungal biomass composite with bentonite efficiency for nickel and zinc adsorption: A mechanistic study. 2016 , 91, 459-471		128
816	Adsorption potency of imprinted Starch/PVA polymers confined ionic liquid with molecular simulation framework. 2016 , 4, 2147-2154		18
815	Adsorptive Li ⁺ mining from liquid resources by H ₂ TiO ₃ : Equilibrium, kinetics, thermodynamics, and mechanisms. 2016 , 35, 347-356		60
814	Removal of Arsenic (III) from natural contaminated water using magnetic nanocomposite: kinetics and isotherm studies. 2016 , 13, 1175-1188		14
813	Removal of crystal violet dye from aqueous solution using yeast-treated peat as adsorbent: thermodynamics, kinetics, and equilibrium studies. 2016 , 75, 1		30
812	Aluminium fumarate and CPO-27(Ni) MOFs: Characterization and thermodynamic analysis for adsorption heat pump applications. 2016 , 99, 802-812		75
811	Evaluation of physicochemical methods in enhancing the adsorption performance of natural zeolite as low-cost adsorbent of methylene blue dye from wastewater. 2016 , 118, 197-209		95

810	Sorption Study of a Starch Biopolymer as an Alternative Desiccant for Energy Wheels. 2016 , 4, 1262-1273	17
809	Polyurethane foams synthesized from cellulose-based wastes: Kinetics studies of dye adsorption. 2016 , 85, 149-158	38
808	Super-fine powdered activated carbon (SPAC) for efficient removal of micropollutants from wastewater treatment plant effluent. 2016 , 90, 90-99	103
807	Biosorption of Pb(II) onto immobilized and native <i>Mangifera indica</i> waste biomass. 2016 , 35, 185-194	119
806	Enhanced mass transfer rate of methane in aqueous phase via methyl-functionalized SBA-15. 2016 , 215, 154-160	16
805	Molecular simulation of geometrically optimized polyoxymethylene/poly (vinylalcohol) gel membrane for electroless scrubbing Ni(II) ions. 2016 , 4, 434-439	9
804	Kinetics, equilibrium, and thermodynamics of ammonium sorption from swine manure by natural chabazite. 2016 , 51, 202-213	18
803	Sorption of acid dye by surfactant modified natural zeolites. 2016 , 59, 186-194	37
802	Synthesis, characterization and sorption studies of nano lanthanum oxide. <i>Journal of Water Process Engineering</i> , 2016 , 9, 29-37	6.7 19
801	Optimizing adsorption parameters in tannery-dye-containing effluent treatment with leather shaving waste. 2016 , 99, 98-106	39
800	Simulation of saxitoxins adsorption in full-scale GAC filter using HSDM. 2016 , 88, 558-565	13
799	Utilization of rice husk silica as adsorbent for BTEX passive air sampler under high humidity condition. 2016 , 23, 5538-48	6
798	A review of biochar as a low-cost adsorbent for aqueous heavy metal removal. 2016 , 46, 406-433	703
797	Adsorption and desorption of phenol onto barley husk-activated carbon in an airlift reactor. 2016 , 57, 845-860	9
796	Treatment technologies and mechanisms for three odorants at trace level: IPMP, IBMP, and TCA. 2016 , 37, 308-15	7
795	Analytical investigation of specific adsorption kinetics of CO ₂ gas on dendrimer loaded in organoclays. 2016 , 283, 1366-1373	18
794	Preparation and characterization of bio-organoclays using nonionic surfactant. 2016 , 22, 105-116	28
793	Further verification of adsorption dynamic intraparticle model (ADIM) for fluid-solid adsorption kinetics in batch reactors. 2016 , 283, 1197-1202	13

- 792 Removal of chromate from aqueous solutions by dendrimers-clay nanocomposites. **2016**, 57, 14290-14303 8
- 791 Biosorption studies on waste cotton seed for cationic dyes sequestration: equilibrium and thermodynamics. **2017**, 7, 1987-1995 17
- 790 Oxalic acid removal from wastewater using multi-walled carbon nanotubes: Kinetic and equilibrium analysis. **2017**, 38, 65-69
- 789 Removal of Bisphenol A aqueous solution using surfactant-modified natural zeolite: Taguchi's experimental design, adsorption kinetic, equilibrium and thermodynamic study. **2017**, 38, 424-432 16
- 788 Adsorptive removal of Pb (II) ions from aqueous solution using CuO nanoparticles synthesized by sputtering method. **2017**, 225, 936-944 61
- 787 An investigation on biosorption of nitrate from water by chitosan based organic-inorganic hybrid biocomposites. **2017**, 97, 489-502 41
- 786 Biosorption of As(III) and As(V) on the surface of TW/MnFe₂O₄ composite from wastewater: kinetics, mechanistic and thermodynamics. **2017**, 7, 2689-2715 18
- 785 Chitosan/polyamide nanofibers prepared by Forcespinning[®] technology: A new adsorbent to remove anionic dyes from aqueous solutions. **2017**, 144, 120-129 111
- 784 Preparation of CuO nanoparticles using Tamarindus indica pulp extract for removal of As(III): Optimization of adsorption process by ANN-GA. **2017**, 5, 1302-1318 26
- 783 Adsorption of As(III) and As(V) in groundwater by Fe/Mn binary oxide-impregnated granular activated carbon (IMIGAC). **2017**, 72, 62-69 35
- 782 Albumin-mediated deposition of bone-like apatite onto nano-sized surfaces: Effect of surface reactivity and interfacial hydration. **2017**, 494, 345-354 18
- 781 Lead removal from aqueous solution by basaltic scoria: adsorption equilibrium and kinetics. **2017**, 14, 1181-1196 9
- 780 Effects of Physical and Sorption Properties of Desiccant Coating on Performance of Energy Wheels. **2017**, 139, 5
- 779 Fluid-Solid Adsorption in Batch and Continuous Processing: A Review and Insights into Modeling. **2017**, 40, 799-820 28
- 778 The extraction of platinum and palladium from a synthetic cyanide heap leach solution with strong base anion exchange resins. **2017**, 162, 27-35 17
- 777 Polyaniline-deposited cellulose fiber composite prepared via in situ polymerization: enhancing adsorption properties for removal of meloxicam from aqueous media. **2017**, 7, 12639-12649 28
- 776 Sodium silicate treatment for the attenuation of U(VI) by iron-bearing sediments in acidic groundwater plumes. **2017**, 92, 1919-1927 1
- 775 Highly Efficient Removal of Dye from Water Using Magnetic Carrageenan/Silica Hybrid Nano-adsorbents. **2017**, 228, 1 36

774	Synthesis and Characterization of Halloysite/Cyclodextrin Nanosponges for Enhanced Dyes Adsorption. 2017 , 5, 3346-3352	108
773	Surface modification of broom sorghum-based activated carbon via functionalization with triethylenetetramine and urea for CO ₂ capture enhancement. 2017 , 11, 252-265	14
772	Nickel adsorption onto polyurethane ethylene and vinyl acetate sorbents. 2017 , 76, 219-235	24
771	Adsorption of steroid micropollutants on polymer-based spherical activated carbon (PBSAC). 2017 , 337, 126-137	44
770	Biosorptive removal of lead from aqueous solutions onto Taro (<i>Colocasia esculenta</i> (L.) Schott) as a low cost bioadsorbent: Characterization, equilibria, kinetics and biosorption-mechanism studies. 2017 , 5, 2151-2162	38
769	Adsorption of p-nitrophenols (PNP) on microalgal biochar: Analysis of high adsorption capacity and mechanism. 2017 , 244, 1456-1464	89
768	Chromium adsorption using waste tire and conditions optimization by response surface methodology. 2017 , 5, 2740-2751	50
767	Adsorptive Water Removal from Dichloromethane and Vapor-Phase Regeneration of a Molecular Sieve 3A Packed Bed. 2017 , 56, 5042-5054	10
766	Selective removal of toxic Cr(VI) from aqueous solution by adsorption combined with reduction at a magnetic nanocomposite surface. 2017 , 503, 214-228	113
765	Detailed numerical solution of pore volume and surface diffusion model in adsorption systems. 2017 , 122, 298-307	54
764	Study of the adsorption and electroadsorption process of Cu (II) ions within thermally and chemically modified activated carbon. 2017 , 328, 46-55	85
763	Development and validation of a graphical sorption model: application to sorption of organic liquids into low density polyethylene polymeric membrane. 2017 , 12, 561-572	7
762	Gold recovery from very dilute solutions from a mine in closing process: Adsorption-desorption onto carbon materials. 2017 , 240, 549-555	16
761	Efficient removal of uranium(VI) from aqueous medium using ceria nanocrystals: an adsorption behavioural study. 2017 , 313, 101-112	19
760	Sulfate decontamination from groundwater by metal layered double hydroxides functionalized high phosphorus iron ore waste as a new green adsorbent: Experimental and modeling. 2017 , 106, 219-230	12
759	Equilibrium and kinetics of biosorption of oxalic acid by wheat straw. 2017 , 11, 318-323	3
758	Comments on Comments on Characterization and adsorption capacity of raw pomegranate peel biosorbent for copper removal 2017 , 154, 269-275	1
757	Kinetic sorption of contaminants of emerging concern by a palygorskite-montmorillonite filter medium. 2017 , 176, 231-242	27

756	Pectin-blended anionic polysaccharide films for cationic contaminant sorption from water. 2017 , 101, 481-489	9
755	Batch equilibrium and kinetics of mercury removal from aqueous solutions using polythiophene/graphene oxide nanocomposite. 2017 , 75, 2841-2851	13
754	Iron-based adsorbent prepared from Litchi peel biomass via pyrolysis process for the removal of pharmaceutical pollutant from synthetic aqueous solution. 2017 , 24, 10547-10556	12
753	Optimization and adsorption kinetic studies of aqueous manganese ion removal using chitin extracted from shells of edible Philippine crabs. 2017 ,	
752	Modelling of adsorption of textile dyes over multi-walled carbon nanotubes: Equilibrium and kinetic. 2017 , 25, 523-532	27
751	Biocomposite efficiency for Cr(VI) adsorption: Kinetic, equilibrium and thermodynamics studies. 2017 , 5, 400-411	120
750	Preparation and characterization of novel TiO ₂ /lignin and TiO ₂ -SiO ₂ /lignin hybrids and their use as functional biosorbents for Pb(II). 2017 , 314, 169-181	83
749	The Kinetic Study of Cesium, Strontium, and Rubidium Radionuclide Adsorption from Synthetic and Natural Wastes via the Mag-molecular Process. 2017 , 228, 1	4
748	Adsorption of Cd(II) and Pb(II) ions from aqueous solutions using mesoporous activated carbon adsorbent: Equilibrium, kinetics and characterisation studies. 2017 , 5, 679-698	134
747	Fabrication of bimetallic Ag/Fe immobilized on modified biochar for removal of carbon tetrachloride. 2017 , 54, 346-357	27
746	Recent advances in exploitation of nanomaterial for arsenic removal from water: a review. 2017 , 28, 042001	51
745	Competitive adsorption characteristics of rhenium in single and binary (Re-Mo) systems using Purolite A170. 2017 , 169, 1-6	12
744	Self-sensitization of tetracycline degradation with simulated solar light catalyzed by ZnO@montmorillonite. 2017 , 74, 131-143	26
743	Production of sorbent from paper industry solid waste for oil spill cleanup. 2017 , 125, 341-349	29
742	A Review on the Removal of Nitrate from Water by Adsorption on Organic-Inorganic Hybrid Biocomposites. 2017 , 433-477	2
741	Efficient Removal of Lead(II) Ions from Aqueous Solutions Using Methyl-β-Cyclodextrin Modified Graphene Oxide. 2017 , 228, 1	13
740	Preparation of activated carbon, zinc oxide and nickel oxide composites for potential application in the desulfurization of model diesel fuels. 2017 , 128, 246-256	24
739	Environmental application of biochar: Current status and perspectives. 2017 , 246, 110-122	370

738	Hydrous ZrO decorated polyaniline nanofibres: Synthesis, characterization and application as an efficient adsorbent for water defluoridation. 2017 , 508, 342-358	20
737	Kinetic and isotherm studies for nickel (II) removal using novel mesoparticle graphene sand composite synthesised from sand and arenga palm sugar. 2017 , 217, 012006	
736	BOF steel slag as a low-cost sorbent for vanadium (V) removal from soil washing effluent. 2017 , 7, 11177	16
735	Significance of FeZr-modified natural zeolite networks on fluoride removal. 2017 , 202, 41-53	32
734	Modelling and Experimental Study of the CO ₂ Adsorption Behaviour of Polyaspartamide as an Adsorbent During Post-Combustion CO ₂ Capture. 2017 , 114, 1643-1664	19
733	Highly selective capture of phosphate ions from water by a water stable metal-organic framework modified with polyethyleneimine. 2017 , 24, 23694-23703	27
732	Modeling butadiene adsorption on oxidized graphene surface using density functional theory. 2017 , ,	1
731	Adsorption of Three Flavonoids from Aqueous Solutions onto Mesoporous Carbon. 2017 , 62, 3178-3186	2
730	Critical analysis of adsorption/diffusion modelling as a function of time square root. 2017 , 173, 179-186	49
729	Application of ultrasound modified corn straw as adsorbent for malachite green removal from synthetic and real effluents. 2017 , 24, 21484-21495	34
728	Biochar based removal of antibiotic sulfonamides and tetracyclines in aquatic environments: A critical review. 2017 , 246, 150-159	291
727	Adsorption of NH ₄ -N on Chinese loess: Non-equilibrium and equilibrium investigations. 2017 , 202, 46-54	17
726	Cigarette soot activated carbon modified with Fe ₃ O ₄ nanoparticles as an effective adsorbent for As(III) and As(V): Material preparation, characterization and adsorption mechanism study. 2017 , 243, 395-405	46
725	Silver removal from aqueous solution by biochar produced from biosolids via microwave pyrolysis. 2017 , 203, 264-272	32
724	Adsorption of the herbicides diquat and difenzoquat on polyurethane foam: Kinetic, equilibrium and computational studies. 2017 , 145, 597-604	17
723	Graphene as an Efficient and Reusable Adsorbent Compared to Activated Carbons for the Removal of Phenol from Aqueous Solutions. 2017 , 228, 1	24
722	Isobutanol Vapor Adsorption on Activated Carbons: Equilibrium and Kinetic Studies. 2017 , 62, 3518-3524	4
721	Kinetic Study and Optimization of Dehydration of Dimethyl Amino Ethyl Azide (DMAZ) Using Response Surface Methodology. 2017 , 90, 1325-1332	4

720	Removal of arsenic III and V from laboratory solutions and contaminated groundwater by metallurgical slag through anion-induced precipitation. 2017 , 24, 25034-25046	11
719	Keratin-Nylon 6 engineered microbeads for adsorption of Th (IV) ions from liquid effluents. 2017 , 5, 5655-5667	21
718	Predicting the propagation of concentration and saturation fronts in fixed-bed filters. 2017 , 123, 556-568	5
717	Enhancing adsorption property of Engelhard Titanosilicate-10 through incorporation of graphene oxide. 2017 , 252, 125-139	11
716	Coupling process study of lipid production and mercury bioremediation by biomimetic mineralized microalgae. 2017 , 243, 628-633	20
715	Adsorption Kinetics in Liquid Phase: Modeling for Discontinuous and Continuous Systems. 2017 , 53-76	11
714	Laponite functionalized with biuret and melamine Application to adsorption of antibiotic trimethoprim. 2017 , 253, 112-122	12
713	Novel polymorphous aluminosilicate nano minerals: Preparation, characterization and dyes wastewater treatment. 2017 , 34, 2406-2417	2
712	Insight into the adsorption mechanisms of trace organic carbon on biological treatment process. 2017 , 38, 2324-2334	2
711	Characteristics of micro-interface adsorption kinetics between sediments and Cu ions. 2017 , 32, 82-89	11
710	Adding value to gasification and co-pyrolysis chars as removal agents of Cr. 2017 , 321, 173-182	20
709	Clay-biosurfactant materials as functional drug delivery systems: Slowing down effect in the in vitro release of cinnamic acid. 2017 , 135, 567-574	40
708	Activated carbon adsorption of quinolone antibiotics in water: Performance, mechanism, and modeling. 2017 , 56, 145-152	81
707	Developing a biosorbent from Aegle Marmelos leaves for removal of methylene blue from water. 2017 , 14, 341-352	20
706	Kinetic Studies of the Adsorption of Chlorinated Hydrocarbons Onto Phthalocyanine Thin Film. 2017 , 17, 121-126	1
705	Barite scale formation and inhibition in laminar and turbulent flow: A rotating cylinder approach. 2017 , 149, 183-192	18
704	Biosorption capacity and kinetics of cadmium(II) on live and dead <i>Chlorella vulgaris</i> . 2017 , 29, 211-221	49
703	Kinetics of CO ₂ adsorption on cherry stone-based carbons in CO ₂ /CH ₄ separations. 2017 , 307, 249-257	98

702	Optimization of dye adsorption using Fe ₃ O ₄ nanoparticles encapsulated with alginate beads by Taguchi method. 2017 , 35, 55-71	21
701	Sorption mechanism of pharmaceuticals from aqueous medium on ionic liquid modified biomass. 2017 , 92, 808-818	18
700	Adsorptive removal of malachite green and Rhodamine B dyes on Fe ₃ O ₄ /activated carbon composite. 2017 , 38, 1556-1562	27
699	Development of chitosan based hybrid hydrogels for dyes removal from aqueous binary system. 2017 , 225, 265-270	74
698	Kinetic mass transfer adsorption model for treating dairy wastewater with stone cutting solid waste. 2017 , 7, 21-29	14
697	Adsorption-desorption behavior of atrazine on agricultural soils in China. 2017 , 57, 180-189	90
696	Sorption of Hg(II) and Zn(II) ions using lignocellulosic sorbent (date pits). 2017 , 95, 775-782	15
695	Microvia Filling with Copper Electroplated with Quaternary Ammonium-Based Leveler: The Evaluation of Convection-Dependent Adsorption Behavior of the Leveler. 2017 , 164, D1051-D1055	22
694	Characterization and Evaluation of Sorbent Materials Obtained from Orange Peel as an Alternative of Sustainable Materials for Water Treatment. 2017 , 15,	
693	Kinetic Modelling of the Removal of Multiple Heavy Metallic Ions from Mine Waste by Natural Zeolite Sorption. 2017 , 9, 482	6
692	Extractive Fermentation of Lactic Acid in Lactic Acid Bacteria Cultivation: A Review. 2017 , 8, 2285	55
691	Unrefined humic substances as a potential low-cost amendment for the management of acidic groundwater contamination. 2018 , 212, 210-218	1
690	Dye Adsorption on Cubic Polyhedral Oligomeric Silsesquioxane-Based Poly(acrylamide-co-itaconic acid) Hybrid Nanocomposites: Kinetic, Thermodynamic and Isotherms Studies. 2018 , 28, 1728-1738	24
689	Adsorption and desorption of molybdenum(VI) in contaminated water using a chitosan sorbent. <i>Journal of Water Process Engineering</i> , 2018 , 23, 13-19	6.7 20
688	Effect of Mordanting on the Adsorption Thermodynamics and Kinetics of Cochineal For Wool. 2018 , 57, 4462-4469	10
687	The impact of loading approach and biological activity on NOM removal by ion exchange resins. 2018 , 134, 301-310	22
686	Mathematical modeling and numerical investigation of carbon capture by adsorption: Literature review and case study. 2018 , 221, 437-449	31
685	Preparation of Porous Nanofibers from Electrospun Polyacrylonitrile/Polyvinylidene Fluoride Composite Nanofibers by Inexpensive Salt Using for Dye Adsorption. 2018 , 26, 3550-3563	20

684	Surface modified polypyrrole for the efficient removal of phenolic compounds from aqueous medium. 2018 , 6, 2588-2596		7
683	Influence of Asphaltenes in the Properties of Liquid-Liquid Interface between Water and Linear Saturated Hydrocarbons. 2018 , 3, 3851-3856		6
682	Purification of supercritical-fluid carotenoid-rich extracts by hydrophobic interaction chromatography. <i>Separation and Purification Technology</i> , 2018 , 203, 1-10	8.3	4
681	Synthesis and characterisation of zeolite-A and Zn-exchanged zeolite-A based on natural aluminosilicates and their potential applications. 2018 , 5, 1440480		13
680	Preparation of CeO ₂ nanofibers derived from Ce-BTC metal-organic frameworks and its application on pesticide adsorption. 2018 , 255, 10-17		27
679	Three-dimensional mass transfer modeling of ibuprofen adsorption on activated carbon prepared by sonication. 2018 , 341, 65-74		42
678	L-Cysteine functionalized bagasse cellulose nanofibers for mercury(II) ions adsorption. 2018 , 112, 728-736		46
677	Kinetics and mechanistic description of adsorptive uptake of crystal violet dye by lignified elephant grass complexed isolate. 2018 , 6, 2105-2118		36
676	Removal of Oil from Water by Calcium Alginate Hydrogel Modified with Maleic Anhydride. 2018 , 26, 2901-29168		
675	Erroneous Application of Pseudo-Second-Order Adsorption Kinetics Model: Ignored Assumptions and Spurious Correlations. 2018 , 57, 2705-2709		90
674	Electrochemical synthesis, characterization and application of a microstructure Cu ₃ (BTC) ₂ metal organic framework for CO ₂ and CH ₄ separation. 2018 , 35, 974-983		47
673	Study on regeneration of waste powder activated carbon through pyrolysis and its adsorption capacity of phosphorus. 2018 , 8, 778		15
672	Removal of Procion Red dye from colored effluents using HSO ₃ ⁻ /HNO ₃ -treated avocado shells (<i>Persea americana</i>) as adsorbent. 2018 , 25, 6429-6442		32
671	Crustacean derived calcium phosphate systems: Application in defluoridation of drinking water in East African rift valley. 2018 , 347, 95-105		16
670	Pecan shell based activated carbon for removal of iron(II) from fracking wastewater: Adsorption kinetics, isotherm and thermodynamic studies. 2018 , 114, 107-122		79
669	Photocatalytic degradation of the herbicide imazapyr: do the initial degradation rates correlate with the adsorption kinetics and isotherms?. 2018 , 8, 985-995		23
668	Cobalt and nickel uptake by silica-based extractants. 2018 , 53, 1552-1562		9
667	Adsorption dynamics and mechanism of aqueous sulfachloropyridazine and analogues using the root powder of recyclable long-root <i>Eichhornia crassipes</i> . 2018 , 196, 409-417		30

666	Cadmium biosorption by alginate extraction waste and process overview in Life Cycle Assessment context. 2018 , 178, 166-175	47
665	Critical of linear and nonlinear equations of pseudo-first order and pseudo-second order kinetic models. 2018 , 4, 244-254	144
664	Cubic polyhedral oligomeric silsesquioxane nano-cross-linked hybrid hydrogels: Synthesis, characterization, swelling and dye adsorption properties. 2018 , 128, 47-57	33
663	Adsorption characteristics of arsenic and phosphate onto iron impregnated biochar derived from anaerobic granular sludge. 2018 , 35, 1409-1413	24
662	Enhancement of Adsorption Performance for Organic Molecules by Combined Effect of Intermolecular Interaction and Morphology in Porous rGO-Incorporated Hydrogels. 2018 , 10, 17335-17344	16
661	Adsorption of UV-quenching substances (UVQS) from landfill leachate with activated carbon. 2018 , 350, 739-746	41
660	Insight into the heterogeneous adsorption of humic acid fluorescent components on multi-walled carbon nanotubes by excitation-emission matrix and parallel factor analysis. 2018 , 148, 194-200	12
659	Extended-release of chlorpromazine intercalated into montmorillonite clays. 2018 , 267, 43-52	13
658	Study of Pb (II) adsorption from aqueous solutions by TiO ₂ functionalized with hydroxide ethyl aniline (PHEA/n-TiO ₂). 2018 , 263, 294-302	23
657	Kinetic, isotherm and thermodynamic investigations of the adsorption of Ag ⁺ and Cu ²⁺ on vermiculite. 2018 , 258, 295-309	37
656	Effective Adsorption of Crystal Violet Dye from an Aqueous Solution Using Lignin-Rich Isolate from Elephant Grass. 2018 , 3, 33-46	28
655	Application of nickel (II) thermo-responsive affinity polymer to porcine circovirus type 2 (PCV2) cap protein purification and interaction analysis by X-ray photoelectron spectroscopy (XPS). 2018 , 69, 216-223	3
654	Proper functional modification and optimized adsorption conditions improved the DNA loading capacity of mesoporous silica nanoparticles. 2018 , 548, 98-107	17
653	Adsorption of a cationic dye (methylene blue) by Iranian natural clays from aqueous solutions: equilibrium, kinetic and thermodynamic study. 2018 , 77, 1	18
652	m-Phenylenediamine-modified polypyrrole as an efficient adsorbent for removal of highly toxic hexavalent chromium in water. 2018 , 15, 153-164	25
651	Kinetic, thermodynamic, and isosteric heat of dibutyl and diethyl phthalate removal onto activated carbon from Albizzia julibrissin pods. 2018 , 36, 235-243	4
650	Hydrothermal synthesis of mesoporous carbons for adsorption of two alkaloids. 2018 , 25, 95-105	7
649	Ni and Co adsorption using Tectona grandis biochar: kinetics, equilibrium and desorption studies. 2018 , 39, 464-478	19

648	Equilibrium and kinetics studies of Direct blue 71 adsorption from aqueous solutions using modified zeolite. 2018 , 36, 80-94		10
647	Removal of cadmium (II) from aqueous solution and natural water samples using polyurethane foam/organobentonite/iron oxide nanocomposite adsorbent. 2018 , 15, 105-118		7
646	Application of Victorian brown coal for removal of ammonium and organics from wastewater. 2018 , 39, 1041-1051		12
645	Influence of dissolved organic matter on sorption and desorption of MCPA in ferralsol. 2018 , 616-617, 1449-1456		22
644	Pectin-[(3-acrylamidopropyl) trimethylammonium chloride-co-acrylic acid] hydrogel prepared by gamma radiation and selectively silver (Ag) metal adsorption. 2018 , 135, 45906		16
643	Load-dependent surface diffusion model for analyzing the kinetics of protein adsorption onto mesoporous materials. 2018 , 511, 27-38		12
642	Sorption of Cr, Pb, Cu, Zn, Cd, Ni, and Co to nano-TiO in seawater. 2018 , 77, 145-158		3
641	Steel-Making dust as a potential adsorbent for the removal of lead (II) from an aqueous solution. 2018 , 334, 837-844		70
640	Adsorbate mass transfer into porous adsorbents A practical viewpoint. <i>Separation and Purification Technology</i> , 2018 , 192, 383-400	8.3	11
639	Sorption of sulfamethazine to biochars as affected by dissolved organic matters of different origin. 2018 , 248, 36-43		52
638	Adsorption of direct yellow 12 from aqueous solutions by an iron oxide-gelatin nanoadsorbent; kinetic, isotherm and mechanism analysis. 2018 , 170, 570-580		52
637	Photoactive glazed polymer-cement composite. 2018 , 438, 84-95		8
636	Adsorption of organic dyes from aqueous solutions using surfactant exfoliated graphene. 2018 , 6, 495-504		48
635	Chromium(VI) removal using in-situ nitrogenized activated carbon prepared from Brewers spent grain. 2018 , 24, 147-156		5
634	Adsorption Kinetics of Dyes in Single and Binary Systems Using Cyanoguanidine-Crosslinked Chitosan of Different Deacetylation Degrees. 2018 , 26, 2401-2409		3
633	Adsorption behaviors of glyphosate, glufosinate, aminomethylphosphonic acid, and 2-aminoethylphosphonic acid on three typical Baltic Sea sediments. 2018 , 198, 1-9		10
632	Evaluation of 1st and 2nd generation of poly(amidoamine) dendrimer functionalized carbon nanotubes for the efficient removal of neptunium. 2018 , 315, 331-340		13
631	Chitosan as a biosorbent for adsorption of iron (II) from fracking wastewater. 2018 , 29, 961-969		18

630	Effect of immobilization methods and the pore structure on CO ₂ separation performance in silica-supported ionic liquids. 2018 , 260, 190-200	28
629	Impact of percentage and particle size of sugarcane biochar on the sorption behavior of clomazone in Red Latosol. 2018 , 90, 3745-3759	1
628	Adsorption capacity of sodic- and dendrimers-modified stevensite. 2018 , 53, 525-544	5
627	Evaluation of Carbon Nanotubes and Quartz Sand for the Removal of Formaldehyde(2,4-Dinitrophenylhydrazine) From Aqueous Solutions. 2018 , 57, 17003-17012	6
626	Adsorption of phosphorus with calcium alginate beads containing drinking water treatment residual. 2018 , 78, 1980-1989	9
625	Carbon Nanofibers: A New Adsorbent for Copper Removal from Wastewater. 2018 , 8, 914	23
624	Simultaneous removal of fluoride and arsenic in geothermal water in Tibet using modified yak dung biochar as an adsorbent. 2018 , 5, 181266	11
623	Highly Efficient Removal of Suspended Solid Pollutants from Wastewater by Magnetic Fe ₃ O ₄ -Graphene Oxides Nanocomposite. 2018 , 3, 11643-11648	2
622	Sodium hydroxide modified rice husk for enhanced removal of copper ions. 2018 , 78, 1615-1623	2
621	Adsorptive Removal of Methylene Blue Using Magnetic Biochar Derived from Agricultural Waste Biomass: Equilibrium, Isotherm, Kinetic Study. 2018 , 17, 1850002	6
620	Modified nickel ferrite nanocomposite/functionalized chitosan as a novel adsorbent for the removal of acidic dyes. 2018 , 120, 1714-1725	28
619	Adsorption. 2018 , 85-106	2
618	Optimization of adsorption parameters for Fe (III) ions removal from aqueous solutions by transition metal oxide nanocomposite. 2018 , 11, 404-413	17
617	ZnO-pHEMA Nanocomposites: An Ecofriendly and Reusable Material for Water Remediation. 2018 , 10, 40100-40110	30
616	Assessment of kinetic models on Fe adsorption in groundwater using high-quality limestone. 2018 , 140, 012030	
615	Evaluation of Cd(II) Ion Removal from Aqueous Solution by a Low-Cost Adsorbent Prepared from White Yam (<i>Dioscorea rotundata</i>) Waste Using Batch Sorption. 2018 , 2, 35	10
614	Adsorption of ionic liquids onto an activated carbon: kinetic modeling studies. 2018 , 25, 32112-32121	
613	Mimicking DNA alkylation: Removing genotoxin impurities from API streams with a solvent stable polybenzimidazole-adenine polymer. 2018 , 131, 258-265	3

612	Adsorption of xylene isomers using Ba-faujasite type zeolite: Equilibrium and kinetics study. 2018 , 138, 387-397	6
611	Enhanced removal efficiency of acid red 18 from aqueous solution using wheat bran modified by multiple quaternary ammonium salts. 2018 , 710, 193-201	15
610	Effective Adsorptive Removal of Cobalt Using Mesoporous Carbons Synthesized by Silica Gel Replica Method. 2018 , 5, 225-242	9
609	Nanoparticles for Heavy Metal Removal from Drinking Water. 2018 , 75-124	2
608	Removal of cobalt and lead ions from wastewater samples using an insoluble nanosponge biopolymer composite: adsorption isotherm, kinetic, thermodynamic, and regeneration studies. 2018 , 25, 21752-21767	39
607	Functional polyaniline/multiwalled carbon nanotube composite as an efficient adsorbent material for removing pharmaceuticals from aqueous media. 2018 , 221, 28-37	18
606	Exploring the Reusability of Synthetically Contaminated Wastewater Containing Crystal Violet Dye using Tectona grandis Sawdust as a Very Low-Cost Adsorbent. 2018 , 8, 8314	75
605	Interactions between iron mineral-humic complexes and hexavalent chromium and the corresponding bio-effects. 2018 , 241, 265-271	21
604	Kinetics and isotherms of dichlorodiphenyltrichloroethane (DDT) adsorption using soil zeolite mixture. 2018 , 3, 1	12
603	Adsorption dynamics of CVD graphene investigated by a contactless microwave method. 2018 , 5, 035024	6
602	Effect of Incorporated Inorganic Nanoparticles on Porous Structure and Functional Properties of Strongly and Weakly Acidic Ion Exchangers. 2018 , 63-77	3
601	Bioadsorption of trivalent and hexavalent chromium from aqueous solutions by sericin-alginate particles produced from Bombyx mori cocoons. 2018 , 25, 25967-25982	22
600	Uranium sorption from commercial phosphoric acid using kaolinite and metakaolinite. 2018 , 317, 685-699	15
599	Chitosan-macroalgae biocomposites as potential adsorbents of water-soluble hydrocarbons: Organic matter and ionic strength effects. 2018 , 197, 633-642	11
598	Leaf Biosorbents for the Removal of Heavy Metals. 2018 , 87-126	1
597	Biosorption of Metals and Metalloids. 2018 , 35-86	6
596	Bleaching of Neutral Cotton Seed Oil Using Organic Activated Carbon in a Batch System: Kinetics and Adsorption Isotherms. 2018 , 6, 22	6
595	Evaluation of Different Clinoptilolite Zeolites as Adsorbent for Ammonium Removal from Highly Concentrated Synthetic Wastewater. 2018 , 10, 584	28

594	Ytterbium tungstate nanoparticles as a novel sorbent for basic dyes from aqueous solutions. 2018 , 44, 6945-6962	6
593	Study of the adsorption of 2,4-dichlorophenoxyacetic acid from the aqueous solution onto carbon nanotubes. 2018 , 56, 191-196	4
592	Study of the adsorption of 2,4-dichlorophenoxyacetic acid from the aqueous solution onto activated carbon. 2018 , 56, 208-213	6
591	Development of Nanofibers Composed of Chitosan/Nylon 6 and Tannin/Nylon 6 for Effective Adsorption of Cr(VI). 2018 , 26, 4073-4084	13
590	Retention and release of hexavalent and trivalent chromium by chitosan, olive stone activated carbon, and their blend. 2018 , 25, 19585-19604	10
589	Adsorption properties and mechanism of barium (II) and strontium (II) removal from fracking wastewater using pecan shell based activated carbon. 2018 , 193, 1-13	73
588	The application of GAC sandwich slow sand filtration to remove pharmaceutical and personal care products. 2018 , 635, 1182-1190	35
587	Insights into the Sorption Mechanisms of Cr(III) by Chemically Modified Pine Bark. 2018 , 41, 1378-1389	9
586	The influence of substituted hydroxyapatites heat treatment on citrate sorption behavior □ infrared spectroscopy experiments and adsorption studies. 2018 , 558, 23-32	3
585	Synthesis and characterization of goethite coated with copper oxide and its effect on the removal of aqueous mercury(II) ions. 2018 , 12, 652-660	1
584	Agricultural byproducts-based biosorbents for purification of bioalcohols: a review. 2018 , 5,	9
583	Highly efficient and reusable mesoporous zeolite synthesized from a biopolymer for cationic dyes adsorption. 2018 , 556, 43-50	61
582	Application of clay ceramics and nanotechnology in water treatment: A review. 2018 , 5, 1476017	18
581	Silica-Nanochannel-Based Interferometric Sensor for Selective Detection of Polar and Aromatic Volatile Organic Compounds. 2018 , 90, 10780-10785	14
580	Modelling CO2 adsorption dynamics onto amine-functionalised sorbents: A fractal-like kinetic perspective. 2018 , 192, 603-612	8
579	Development of immobilized microcrystalline cellulose as an effective adsorbent for methylene blue dye removal. 2018 , 26, 11-24	29
578	Partially carboxymethylated and partially cross-linked surface of chitosan versus the adsorptive removal of dyes and divalent metal ions. <i>Carbohydrate Polymers</i> , 2018 , 197, 586-597	10.3 57
577	Ultrahigh adsorption capacity of starch derived zinc based carbon foam for adsorption of toxic dyes and its preliminary investigation on oil-water separation. 2018 , 197, 511-524	49

576	Modified activated carbon with interconnected fibrils of iron-oxyhydroxides using Mn as morphology regulator, for a superior arsenic removal from water. 2019 , 76, 403-414	17
575	Toxic Metal Ions in Drinking Water and Effective Removal Using Graphene Oxide Nanocomposite. 2019 , 373-395	4
574	Novel nanogels based on hydroxypropyl cellulose-poly(itaconic acid) for adsorption of methylene blue from aqueous solution: process modeling and optimization using response surface methodology. 2019 , 76, 933-952	6
573	Numerical modelling and investigations on a full-scale zeolite 13X open heat storage for buildings. 2019 , 132, 761-772	13
572	Synthesis of zinc oxide-montmorillonite composite and its effect on the removal of aqueous lead ions. 2019 , 38, 120-130	7
571	Remediation of manganese in mine impacted water by clay/manganese oxide hybrid adsorbent: equilibrium, kinetics and thermodynamic studies. 2019 , 16, 1985-1998	3
570	Sorption behavior of methylene blue from aqueous solution by raphia fibers. 2019 , 16, 8449-8460	13
569	A D-type adsorption kinetic model for single system based on irreversible thermodynamics. 2019 , 25, 1525-1532	
568	Adsorption of Zn(II) and Pb(II) Ions from Aqueous Solution Using Chitosan Cross-Linked Formaldehyde Adsorbent to Protect the Environment. 2019 , 27, 2281-2291	16
567	Physical insights into kinetic models of adsorption. <i>Separation and Purification Technology</i> , 2019 , 229, 115832	8,3 33
566	Removal of Congo Red from Aqueous Solution Using <i>Berna viridis</i> Kinetic Study and Modeling Using Artificial Neural Network. 2019 , 44, 9925-9937	1
565	Bioinspired modified nanocellulose adsorbent for enhanced boron recovery from aqueous media: Optimization, kinetics, thermodynamics and reusability study. 2019 , 7, 103281	8
564	Pectin-based adsorbents for heavy metal ions: A review. 2019 , 91, 319-329	52
563	Water purification in a solar reactor incorporating TiO ₂ coated mesh structures. 2019 , 19, 1718-1725	1
562	Synthesis and characterization of pyridyl anion exchange resin for 99Tc removal. 2019 , 321, 235-242	4
561	Investigation on the removal of entacapone from contaminated water using magnetic activated carbon. 2019 , 6, 096105	3
560	A new adsorption model based on generalized van der Waals partition function for the description of all types of adsorption isotherms. 2019 , 375, 122112	12
559	Characterization and Evaluation of Zeolite A/Fe ₃ O ₄ Nanocomposite as a Potential Adsorbent for Removal of Organic Molecules from Wastewater. 2019 , 2019, 1-13	18

558	Adsorption of phenol onto chitosan hydrogel scaffold modified with carbon nanotubes. 2019 , 7, 103460	43
557	Electrocoagulation process for the treatment of metal-plating wastewater: Kinetic modeling and energy consumption. 2019 , 13, 1	19
556	High-Speed and High-Capacity Removal of Methyl Orange and Malachite Green in Water Using Newly Developed Mesoporous Carbon: Kinetic and Isotherm Studies. 2019 , 4, 19293-19306	32
555	Simplified Batch and Fixed-Bed Design System for Efficient and Sustainable Fluoride Removal from Water Using Slow Pyrolyzed Okra Stem and Black Gram Straw Biochars. 2019 , 4, 19513-19525	19
554	Assessment of the Use of Epicarp and Mesocarp of Green Coconut for Removal of Fluoride Ions in Aqueous Solution. 2019 , 2019, 1-8	4
553	Prediction Model for Cu Chemical Leaching from Printed Circuit Boards. 2019 , 58, 20585-20591	4
552	Nd-BTC metal-organic framework (MOF); synthesis, characterization and investigation on its adsorption behavior toward cesium and strontium ions. 2019 , 150, 104188	21
551	Preparation of activated carbon from black wattle bark waste and its application for phenol adsorption. 2019 , 7, 103396	96
550	Synthesis and characterization of biopolymers functionalized with APTES (3-aminopropyltriethoxysilane) for the adsorption of sunset yellow dye. 2019 , 7, 103410	34
549	Polyethylenimine-Modified Zeolite 13X for CO Capture: Adsorption and Kinetic Studies. 2019 , 4, 16441-16449	21
548	Removal of crystal violet dye by a novel adsorbent derived from waste active sludge used in wastewater treatment. 2019 , 54, 299-308	11
547	Kinetics and thermodynamics of mercury adsorption onto thiolated graphene oxide nanoparticles. 2019 , 173, 114139	16
546	Arsenic adsorption on Fe-Mn modified granular activated carbon (GAC-FeMn): batch and fixed-bed column studies. 2019 , 54, 168-178	17
545	Amorphous iron sulfide nanowires as an efficient adsorbent for toxic dye effluents remediation. 2019 , 26, 2734-2746	9
544	Water treatment residual-coated wood mulch for addressing urban stormwater pollution. 2019 , 91, 523-535	6
543	Arsenate and arsenite removal from contaminated water by iron oxides nanoparticles formed inside a bacterial exopolysaccharide. 2019 , 7, 102908	24
542	Modeling CO ₂ adsorption dynamics within solid amine sorbent based on the fundamental diffusion-reaction processes. 2019 , 364, 328-339	17
541	Effective UO ₂ removal from aqueous solutions using lichen biomass as a natural and low-cost biosorbent. 2019 , 205-206, 93-100	14

540	Research on the Adsorption Behavior of Heavy Metal Ions by Porous Material Prepared with Silicate Tailings. 2019 , 9, 291		65
539	A Dual Ligand Sol-Gel Organic-Silica Hybrid Monolithic Capillary for In-Tube SPME-MS/MS to Determine Amino Acids in Plasma Samples. 2019 , 24,		11
538	Polybenzimidazole for Active Pharmaceutical Ingredient Purification: The Mometasone Furoate Case Study. 2019 , 58, 10524-10532		3
537	Screening commercial available resins for simultaneous removal of two potential genotoxins from API methanolic streams. 2019 , 54, 3005-3018		1
536	Synthesis of a copper(II) oxide-montmorillonite composite for lead removal. 2019 , 26, 803-810		3
535	Kinetics and Isotherms Studies of the Adsorption of Hg(II) onto Iron Modified Montmorillonite/Polycaprolactone Nanofiber Membrane. 2019 , 540, 012005		10
534	Phenol degradation catalyzed by metal oxide supported porous carbon matrix under UV irradiation. <i>Journal of Water Process Engineering</i> , 2019 , 31, 100869	6.7	13
533	Purification, characterization and application of cherty rocks as sorbent for separation and preconcentration of rare earths. 2019 , 8, 2910-2923		5
532	Synthesis and characterization of kaolinite coated with copper oxide and its effect on the removal of aqueous Lead(II) ions. 2019 , 9, 1		5
531	Separation of Formic Acid from Aqueous Solutions onto Anion Exchange Resins: Equilibrium, Kinetic, and Thermodynamic Data. 2019 , 64, 2718-2727		9
530	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
529	Polymeric adsorbents for oil removal from water. 2019 , 233, 809-817		27
528	HDEHP-Impregnated Kaolinite for Adsorption of Uranium from Dilute Phosphoric Acid. 2019 , 61, 331-338		1
527	Synthesis of polyaminophosphonic acid-functionalized poly(glycidyl methacrylate) for the efficient sorption of La(III) and Y(III). 2019 , 375, 121932		26
526	Removal of aqueous-phase Pb(II), Cd(II), As(III), and As(V) by nanoscale zero-valent iron supported on exhausted coffee grounds. 2019 , 92, 49-58		32
525	Chemical and biological approach to remove Mn from aqueous solution. 2019 , 15, 100398		2
524	Effects of sepiolite nanoparticles on the kinetics of Pb and Cu removal from aqueous solutions and their immobilization in columns with different soil textures. 2019 , 350, 19-28		16
523	Influence of the Ce/Ce Redox-Couple on the Cyclic Regeneration for Adsorptive and Catalytic Performance of NiO-PdO/CeO Nanoparticles for -C Asphaltene Steam Gasification. 2019 , 9,		21

522	Adsorption of Paracetamol in Hospital Wastewater Through Activated Carbon Filters. 2019 , 11, 2672	29
521	Highly efficient removal of heavy metals from waters by magnetic chitosan-based composite. 2019 , 25, 1337-1347	19
520	Adsorption of organic micropollutants onto biochar: a review of relevant kinetics, mechanisms and equilibrium. 2019 , 5, 821-838	106
519	Controllable synthesis of FeO-wollastonite adsorbents for efficient heavy metal ions/oxyanions removal. 2019 , 26, 12379-12398	5
518	Crystal violet adsorption by oppositely twisted heat-treated halloysite and pecoraite nanoscrolls. 2019 , 173, 1-11	21
517	Separation of anthocyanins extracted from red cabbage by adsorption onto chitosan films. 2019 , 131, 905-911	29
516	A comprehensive review of the adsorption mechanisms and factors influencing the adsorption process from the perspective of bioethanol dehydration. 2019 , 107, 535-553	59
515	Role of biochar and plant growth promoting rhizobacteria to enhance soil carbon sequestration-a review. 2019 , 191, 251	40
514	Sorptive removal of toluene and m-xylene by municipal solid waste biochar: Simultaneous municipal solid waste management and remediation of volatile organic compounds. 2019 , 238, 323-330	30
513	Kinetic and thermodynamic study of methylene blue adsorption onto chitosan: insights about metachromasy occurrence on wastewater remediation. 2019 , 4, 85-102	8
512	Hydrophobic dolomite sorbent for oil spill clean-ups: Kinetic modeling and isotherm study. 2019 , 251, 57-72	28
511	Peculiarities of the Sorption of Amino Acids and Their Metabolites by Medicinal Carbon Sorbents. 2019 , 54, 414-419	0
510	Adsorption studies of Cu(II) ions on dendrimer-grafted silica-based materials. 2019 , 281, 176-185	18
509	Synthesis and Application of Fe-Doped TiO ₂ -Halloysite Nanotubes Composite and Their Potential Application in Water Treatment. 2019 , 2019, 1-15	5
508	Green Synthesis of Composite Graphene Aerogels with Robust Magnetism for Effective Water Remediation. 2019 , 12,	8
507	Adsorption Kinetics of 2,2',4,4'-Tetrabromodiphenyl Ether (BDE-47) on Maize Straw-Derived Biochars. 2019 , 29, 721-729	6
506	Development of a new efficient and economical magnetic sorbent silicone surfactant-based activated carbon for the removal of chloro- and nitro-group phenolic compounds from contaminated water samples.. 2019 , 9, 36915-36930	6
505	Investigation on effects of ion exchangers structure and functional groups on the Re(VII) ions adsorption behavior from aqueous solution. 2019 , 22, 119-128	

504	Synthesis and application of Zn/Ce bimetallic oxides for the decontamination of arsenite (As-III) ions from aqueous solutions. 2019 , 233, 151-164	13
503	Variable diffusivity homogeneous surface diffusion model and analysis of merits and fallacies of simplified adsorption kinetics equations. 2019 , 367, 224-245	55
502	Optimization of the integral valorization process for orange peel waste using a design of experiments approach: Production of high-quality pectin and activated carbon. 2019 , 85, 202-213	42
501	A novel, initial guess free optimization algorithm for estimating parameters of batch kinetics model used to simulate adsorption of pollutant molecules in aqueous streams. 2019 , 275, 510-522	3
500	Removal of heavy metals by leaves-derived biosorbents. 2019 , 17, 755-766	45
499	Piperazine-modified activated alumina as a novel promising candidate for CO ₂ capture: experimental and modeling. 2019 , 9, 37-51	15
498	Adsorption and structural study of the chelating resin, 1,8-(3,6-dithiaoctyl)-4-polyvinyl benzenesulphonate (dpvbs) performance towards aqueous Hg(II). 2019 , 277, 584-593	9
497	One-step synthesis of magnetic composite UiO-66/Fe ₃ O ₄ /GO for the removal of radioactive cesium ions. 2019 , 319, 737-748	8
496	Studies on batch adsorptive removal of malachite green from synthetic wastewater using acid treated coffee husk: Equilibrium, kinetics and thermodynamic studies. 2019 , 146, 192-201	59
495	Removal of ZnO Nanoparticles from Natural Waters by Coagulation-Flocculation Process: Influence of Surfactant Type on Aggregation, Dissolution and Colloidal Stability. 2019 , 11, 17	15
494	Removal of Cr(VI) from synthetic wastewater by adsorption onto coffee ground and mixed waste tea. 2019 , 221, 758-767	83
493	Design of high-performance adsorption cross-linked organic functional polymers towards tricyclic antidepressants using computational simulation. 2019 , 7, 102849	5
492	Comparative Study of Ag ⁺ -Based Adsorbents Performance in Ethylene/Ethane Separation. 2019 , 64, 611-618	11
491	Two-Step Adsorption of a Switchable Tertiary Amine Surfactant Measured Using a Quartz Crystal Microbalance with Dissipation. 2019 , 35, 695-701	10
490	Influence of fuel nature on dye adsorption efficiency of solution combustion derived zinc oxide nanoparticles: A comparative study. 2019 , 6, 055512	11
489	Enhanced adsorption of arsenic using calcined alginate bead containing alum sludge from water treatment facilities. 2019 , 234, 181-188	25
488	Magnetic xanthate modified chitosan as an emerging adsorbent for cationic azo dyes removal: Kinetic, thermodynamic and isothermal studies. 2019 , 121, 1126-1134	61
487	A review on adsorptive removal of oil pollutants (BTEX) from wastewater using carbon nanotubes. 2019 , 277, 1005-1025	33

486	Preparation, characterization and adsorption studies of the chemically modified <i>Luffa aegyptica</i> peel as a potential adsorbent for the removal of malachite green from aqueous solution. 2019 , 274, 315-327	75
485	Removal of hexavalent chromium from aqueous solution using novel dye-based adsorbent prepared by flocculation. 2019 , 54, 1739-1748	2
484	Efficient removal of phosphate by a millimeter-sized nanocomposite of titanium oxides encapsulated in positively charged polymer. 2019 , 360, 1128-1136	34
483	Preparation of chitin nanowhiskers and its application for crystal violet dye removal from wastewaters. 2019 , 26, 28548-28557	17
482	Exploring relationships between various activations of granular activated carbon on silver and gold adsorption: A kinetic and equilibrium study. 2019 , 54, 1710-1721	7
481	Tetrasulfide-Functionalized Mesoporous Silica on Nanowire Ring Resonators for Detection of Aqueous Lead, Pb(II). 2019 , 3, 1800084	4
480	Fractal continuum model for the adsorption-diffusion process. 2019 , 197, 98-108	6
479	Preparation of carbonaceous materials from pyrolysis of chicken bones and its application for fuchsine adsorption. 2019 , 26, 28574-28583	36
478	Unraveling sorption of nickel from aqueous solution by KMnO and KOH-modified peanut shell biochar: Implicit mechanism. 2019 , 214, 846-854	52
477	A new approach for modelling and optimization of Cu(II) biosorption from aqueous solutions using sugar beet shreds in a fixed-bed column. 2019 , 363, 366-375	38
476	Modeling aqueous contaminant removal due to combined hydrolysis and adsorption: oxytetracycline in the presence of biomass-based activated carbons. 2019 , 54, 705-721	3
475	Aqueous scavenging of polycyclic aromatic hydrocarbons using epichlorohydrin, 1,6-hexamethylene diisocyanate and 4,4-methylene diphenyl diisocyanate modified starch: Pollution remediation approach. 2019 , 12, 2760-2773	23
474	The role of auxiliaries in the immersion dyeing of textile fibres part 2: Analysis of conventional models that describe the manner by which inorganic electrolytes promote direct dye uptake on cellulosic fibres. 2019 , 161, 531-545	10
473	Adsorption of inorganic mercury from aqueous solutions onto dry biomass of <i>Chlorella vulgaris</i> : kinetic and isotherm study. 2019 , 40, 664-672	21
472	Efficient adsorption of multiple heavy metals with tailored silica aerogel-like materials. 2019 , 40, 529-541	24
471	NiFe ₂ O ₄ nanomagnets prepared through a microwave autocombustion route as an efficient recoverable adsorbent for 2-nitrophenol removal. 2019 , 37, 528-537	4
470	A Comparative Study Between High Density Polyethylene, Polyurethane Foam and Amberlite XAD-2 in the Removal of Different PAHs. 2020 , 40, 1347-1361	4
469	Freeze-drying as the post-processing technique improving adsorptive properties of waste Fe/Mn oxides entrapped in polymer beads towards As(III) and As(V). 2020 , 55, 487-500	6

468	Effective separation of uranyl(II) and thorium(IV) ions from mixtures with neodymium(III) using citric acid and hexabutyl citramide as ligands grafted on mesoporous silica and polystyrene adsorbents. 2020 , 55, 1795-1812		1
467	Process optimization of adsorption of Cr(VI) on adsorbent prepared from Bauhinia rufescens pod by Box-Behnken Design. 2020 , 55, 47-60		5
466	Diffusion mechanism and effect of mass transfer limitation during the adsorption of CO ₂ by polyaspartamide in a packed-bed unit. 2020 , 13, 54-67		18
465	Acidic surface functional groups control chemisorption of ammonium onto carbon materials in aqueous media. 2020 , 698, 134193		25
464	Cryogels with high cisplatin adsorption capacity: Towards removal of cytotoxic drugs from wastewater. <i>Separation and Purification Technology</i> , 2020 , 235, 116203	8.3	17
463	Fast synthesis of an eco-friendly starch-grafted poly(N,N-dimethyl acrylamide) hydrogel for the removal of Acid Red 8 dye from aqueous solutions. 2020 , 77, 4445-4468		13
462	Tuning the morphology and adsorption capacity of Al-MIL-101 analogues with Fe for phosphorus removal from water. 2020 , 560, 321-329		28
461	Chitosan hydrogel scaffold modified with carbon nanotubes and its application for food dyes removal in single and binary aqueous systems. 2020 , 142, 85-93		18
460	Novel pectin based composite hydrogel derived from grapefruit peel for enhanced Cu(II) removal. 2020 , 384, 121445		67
459	Adsorptive removal of alizarin dye from wastewater using maghemite nanoadsorbents. 2020 , 55, 2433-2448		10
458	Enhanced removal of methyl orange on exfoliated montmorillonite/chitosan gel in presence of methylene blue. 2020 , 238, 124693		40
457	Highly efficient arsenic sorbent based on residual from water deironing - Sorption mechanisms and column studies. 2020 , 382, 121062		27
456	Immobilization of Cr(VI) on engineered silicate nanoparticles: Microscopic mechanisms and site energy distribution. 2020 , 383, 121145		9
455	Adsorptive removal of oil from water using SPIONs-chitosan nanocomposite: kinetics and process optimization. 2020 , 10, 1281-1295		13
454	Development and environmental implication of pedotransfer functions of Cd desorption rate coefficients in historically polluted soils. 2020 , 257, 113602		1
453	Modeling mass transfer for adsorptive removal of Pb(II) onto phosphate modified ordered mesoporous carbon (OMC). 2020 , 228, 103562		12
452	Characterization of chromium species and distribution during Cr(VI) removal by biochar using confocal micro-X-ray fluorescence redox mapping and X-ray absorption spectroscopy. 2020 , 134, 105216		25
451	Removal of fluoride from fertilizer industry effluent using carbon nanotubes stabilized in chitosan sponge. 2020 , 388, 122042		41

450	Liquid-phase adsorption: Common problems and how we could do better. 2020 , 301, 112378		11
449	Removing arsenic from water with an original and modified natural manganese oxide ore: batch kinetic and equilibrium adsorption studies. 2020 , 27, 5490-5502		12
448	Metal nanoparticles decorated phosphorylated carbon nanotube/cyclodextrin nanosponge for trichloroethylene and Congo red dye adsorption from wastewater. 2020 , 8, 103602		21
447	Microwave-Assisted Synthesis of -Cinnamic Acid for Highly Efficient Removal of Copper from Aqueous Solution. 2020 , 5, 317-326		1
446	The effects of continuous- and stop-flow gas streams on adsorptive removal of benzene vapor using type - II covalent organic polymers. <i>Environmental Research</i> , 2020 , 182, 109043	7.9	8
445	Application of a new metal-organic framework of [NiF(4,4'-bipy)(HO)](VO).8HO as an efficient adsorbent for removal of Congo red dye using experimental design optimization. <i>Environmental Research</i> , 2020 , 182, 109054	7.9	22
444	Novel amino-functionalized lignin microspheres: High performance biosorbent with enhanced capacity for heavy metal ion removal. 2020 , 156, 1160-1173		20
443	Magsorbents: Potential candidates in wastewater treatment technology [A review on the removal of methylene blue dye. 2020 , 500, 166408		90
442	Synthesis and kinetic adsorption characteristics of Zeolite/CeO ₂ nanocomposite. 2020 , 7, e00257		12
441	Comparison of CU(II), MN(II) and ZN(II) adsorption on biochar using diagnostic and simulation models. 2020 , 245, 125562		16
440	Selective and efficient sequestration of phosphate from waters using reusable nano-Zr(IV) oxide impregnated agricultural residue anion exchanger. 2020 , 700, 134999		19
439	The Application of Carbon Nanotube/Graphene-Based Nanomaterials in Wastewater Treatment. 2020 , 16, e1902301		44
438	Coupling adsorption-photocatalytic reduction of Cr(VI) by metal-free N-doped carbon. 2020 , 704, 135284		32
437	Adsorption of Cr (VI) onto micro- and nanoparticles of palygorskite in aqueous solutions: Effects of pH and humic acid. 2020 , 206, 111247		22
436	A review of hexavalent chromium removal from aqueous solutions by sorption technique using nanomaterials. 2020 , 8, 104503		29
435	Removal of rhodamine B from aqueous solution using SrCo _x Bi ₄ Ti ₄ -xO ₁₅ aurivillius phase ceramics. 2020 , 1-10		
434	Carboxylated Cellulose Nanocrystal Microbeads for Removal of Organic Dyes from Wastewater: Effects of Kinetics and Diffusion on Binding and Release. 2020 , 3, 11217-11228		10
433	Efficient carbon interlayered magnetic chitosan adsorbent for anionic dye removal: Synthesis, characterization and adsorption study. 2020 , 164, 3621-3631		39

432	Preparation and Characterization of a Novel Chemically Modified PVC Adsorbent for Methyl Orange Removal: Optimization, and Study of Isotherm, Kinetics, and Thermodynamics of Adsorption Process. 2020 , 231, 1	1
431	Biochar characteristics, applications and importance in health risk reduction through metal immobilization. 2020 , 20, 101121	8
430	Sorption-desorption of dimethoate in urban soils and potential environmental impacts. 2020 , 22, 2256-2265	5
429	Microplastics as an emerging anthropogenic vector of trace metals in freshwater: Significance of biofilms and comparison with natural substrates. 2020 , 184, 116205	48
428	Effect of molar ration of Ti/Ligand on the synthesis of MIL-125(Ti) and its adsorption and photocatalytic properties. 2020 , 90, 166-177	10
427	In situ product recovery techniques aiming to obtain biotechnological products: A glance to current knowledge. 2021 , 68, 1044-1057	6
426	Study on adsorption of Pb(II) and Cr(VI) by MMT/St-g-P(DMC-AA). 2020 , 585, 012189	
425	Adsorption of Divalent Copper Ions from Synthetic Wastewater Using Layered Double Hydroxides (NiZnFe) and Its Composites with Banana Biochar and Carbon Nanotubes. 2020 , 231, 1	4
424	LDH of NiZnFe and its composites with carbon nanotubes and data-palm biochar with efficient adsorption capacity for RB5 dye from aqueous solutions: Isotherm, kinetic, and thermodynamics studies. 2020 ,	10
423	Kinetics studies of the treatment of wastewater from brewery industry, using powdered snail shell. 2020 , 3, 95-102	4
422	Production of polyacrylonitrile nanofibres modified with Cyanex 272 for recovery of gallium from solution. 2020 , 1-14	2
421	Adsorption-reduction performance of tea waste and rice husk biochars for Cr(VI) elimination from wastewater. 2020 , 24, 799-810	35
420	Mercury adsorption in the gas phase by regenerable Au-loaded activated carbon foams: a kinetic and reaction mechanism study. 2020 , 44, 12009-12018	2
419	AgO/MgO/FeO@Si3N4 nanocomposite with robust adsorption capacity for tetracycline antibiotic removal from aqueous system. 2020 , 31, 4310-4318	15
418	Simultaneous removal of copper and zinc ions by Chitosan/Hydroxyapatite/nano-Magnetite composite. 2020 , 9, 14841-14852	15
417	Application of live Chlorococcum aquaticum biomass for the removal of Pb(II) from aqueous solutions. 2020 , 32, 4069-4080	4
416	Investigating adsorption of model low-MW AOM components onto different types of activated carbon - influence of temperature and pH value. 2020 , 1-11	1
415	Preparation of Electrospun Hydroxyapatite-Glass Fibers for Removal of Cadmium (Cd ²⁺) and Lead (Pb ²⁺) from Aqueous Media. 2020 , 231, 1	2

414	Adsorption of phosphates from water by two polymer-silicate composites. 2020 , 24, 231-250	
413	Adsorption Kinetics of Arsenic (V) on Nanoscale Zero-Valent Iron Supported by Activated Carbon. 2020 , 10,	6
412	Green Graphene-Chitosan Sorbent Materials for Mercury Water Remediation. 2020 , 10,	9
411	Carbon Dioxide Adsorption Equilibrium Rates Comparative Temperature Study Using Palm Kernel Shell Sorbent.. 2020 , 479, 012024	
410	A Mini-Review of Coupled Convection-Diffusion Equations in a Fixed-Bed Adsorption. 2020 , 767, 012031	1
409	Isotherms, Kinetics, and Thermodynamics of NH ₄ ⁺ Adsorption in Raw Liquid Manure by Using Natural Chabazite Zeolite-Rich Tuff. 2020 , 12, 2944	5
408	A First Study of the Kinetics of Metal Ion Adsorption at Solid/Liquid Interface Using Evanescent Wave-Based Optical Microfiber. 2020 , 1-1	2
407	Ironmaking and Steelmaking Slags as Sustainable Adsorbents for Industrial Effluents and Wastewater Treatment: A Critical Review of Properties, Performance, Challenges and Opportunities. 2020 , 12, 2118	20
406	Oxytetracycline Sorption onto Synthetized Materials from Hydroxyapatite and Aluminosilicates. 2020 , 231, 1	6
405	Magnetic solid-phase extraction of U(VI) in aqueous solution by Fe ₃ O ₄ @hydroxyapatite. 2020 , 324, 1329-1337	12
404	Diethylamine functionalised Moringa oleifera leaves for the removal of chromium(VI) and bacteria from wastewater. 2020 , 1-21	3
403	Enhanced removal of the endocrine disruptor compound Bisphenol A by adsorption onto green-carbon materials. Effect of real effluents on the adsorption process. 2020 , 266, 110604	24
402	Electrospun carbon/iron nanofibers: The catalytic effects of iron and application in Cr(VI) removal. 2020 , 166, 227-244	9
401	Zinc(ii) triazole -arylsubstituted porphyrins for UV-visible chloride and bromide detection. Adsorption and catalytic degradation of malachite green dye.. 2020 , 10, 22712-22725	9
400	Sulfonated Pentablock Copolymer Membranes and Graphene Oxide Addition for Efficient Removal of Metal Ions from Water. 2020 , 10,	10
399	Ultrasonically assisted removal of toxic dye using Iranian bituminous coal based-activated carbon: synthesis, characterization, modeling, equilibrium and kinetic studies. 2020 , 17, 2969-2980	4
398	Sorption of okadaic acid lipophilic toxin onto plastics in seawater. 2020 , 157, 111322	1
397	Comparison between Allura Red dye discoloration by activated carbon and azo bacteria strain. 2020 , 27, 29688-29696	6

396	Simple and fast spectrophotometric method based on chemometrics for the measurement of multicomponent adsorption kinetics. 2020 , 34, e3249	2
395	Wood-based cellulose nanocrystals as adsorbent of cationic toxic dye, Auramine O, for water treatment. 2020 , 8, 104187	14
394	Efficient removal of tetracycline hydrochloride from aqueous solution by mesoporous cage MOF-818. 2020 , 2, 1	10
393	Sol-Gel Synthesis of NiO/CuO Nanocomposites for Uptake of Rare Earth Elements (Ho, Yb, and Sm) from Aqueous Solutions. 2020 , 65, 279-289	8
392	Efficient adsorbent derived from Haloxylon recurvum plant for the adsorption of acid brown dye: Kinetics, isotherm and thermodynamic optimization. 2020 , 20, 100510	20
391	Movement and Fate of 2,4-D in Urban Soils: A Potential Environmental Health Concern. 2020 , 5, 13287-13295	9
390	Adsorption of Cd(II), Pb(II) and Cu(II) from multi-metal aqueous system by alkali-treated alang-alang grass (<i>Imperata cylindrica</i>). 2020 ,	
389	Kinetics, Isotherms, and Thermodynamic Modeling of the Adsorption of Phosphates from Model Wastewater Using Recycled Brick Waste. 2020 , 8, 665	64
388	Tuning the structure flexibility of metal-organic frameworks via adjusting precursor anionic species for selective removal of phosphorus. 2020 , 143, 322-331	7
387	Economical and Technological Aspects of Copper Removal from Water Using a Geopolymer and Natural Zeolite. 2020 , 231, 1	9
386	Equilibrium, kinetics and thermodynamics studies of Cd sorption onto a dithizone-impregnated Amberchrom CG-300m polymer resin. 2020 , 13, 5050-5059	8
385	Interpretations on the mechanism of In(III) adsorption onto chitosan and chitin: A mass transfer model approach. 2020 , 304, 112758	13
384	Study of Shale Gas Release from Freshly Drilled Core Samples Using a Real-Time Canister Monitoring Technique: Release Kinetics, Influencing Factors, and Upscaling. 2020 , 34, 2916-2924	2
383	Mesoporous molecularly imprinted polymer for removal of hormones from aqueous medium. 2020 , 590, 124506	6
382	BTX Removal from Aqueous Solution Using Copper- and Nickel-Modified Zeolite 4A: Kinetic, Thermodynamic, and Equilibrium Studies. 2020 , 5, 1-13	3
381	Bioremediation of dyes using coconut parts via adsorption: a review. 2020 , 2, 1	10
380	Rational design, synthesis, adsorption principles and applications of metal oxide adsorbents: a review. 2020 , 12, 4790-4815	126
379	Processing-structure-property relationship in direct laser writing carbonization of polyimide. 2020 , 137, 48978	5

378	Extraction of carotene from crude hybrid palm oil using polymeric resin. 2020 , 278, 109944	6
377	Highly efficient capture of phosphate from water via cerium-doped metal-organic frameworks. 2020 , 265, 121782	36
376	Uranium Separation from Phosphoric Acid Using Metallic Carbonaceous Structures as Efficient Adsorbents: an Experimental and Kinetic Study. 2020 , 62, 204-215	2
375	Multifarious Benefits of Biochar Application in Different Soil Types. 2020 , 259-272	
374	Preparation of ion-imprinted montmorillonite nanosheets/chitosan gel beads for selective recovery of Cu(II) from wastewater. 2020 , 252, 126560	24
373	Synthesis of porous aminated PAN/PVDF composite nanofibers by electrospinning: Characterization and Direct Red 23 removal. 2020 , 8, 103876	13
372	Enhanced Pb(II) adsorption onto functionalized ordered mesoporous carbon (OMC) from aqueous solutions: the important role of surface property and adsorption mechanism. 2020 , 27, 23616-23630	15
371	The time response of plasmonic sensors due to binary adsorption: analytical versus numerical modeling. 2020 , 126, 1	3
370	Adsorption of Sudan-IV contained in oily wastewater on lipophilic activated carbons: kinetic and isotherm modelling. 2020 , 27, 20770-20785	9
369	Spinel-type ferrite nanoparticles for removal of arsenic(V) from water. 2020 , 27, 22523-22534	3
368	Specific ion effects of incomplete ion-exchange by electric field-induced ion polarization.. 2020 , 10, 15190-15198	
367	Reynoutria japonica, an invasive herb as a source of activated carbon for the removal of xenobiotics from water. 2020 , 309, 123315	7
366	Adsorption/ Regeneration Coupling Process Using Ozone on Cobalt Supported on Activated Carbon for Nitrobenzene Degradation. 2021 , 43, 32-47	0
365	Remediation of Arsenic by Metal/ Metal Oxide Based Nanocomposites/ Nanohybrids: Contamination Scenario in Groundwater, Practical Challenges, and Future Perspectives. 2021 , 50, 283-314	8
364	Green synthesis of Fe/Cu oxides composite particles stabilized by pine needle extract and investigation of their adsorption activity for norfloxacin and ofloxacin. 2021 , 42, 1350-1367	2
363	Removal of 2,4-dichlorophenol from wastewater by an efficient adsorbent of magnetic activated carbon. 2021 , 56, 252-265	7
362	Removal of the toxic cadmium ions from aqueous solutions by zero-valent iron nanoparticles. 2021 , 18, 2391-2404	2
361	Mass Transfer Mechanism and Equilibrium Modelling of Hydroxytyrosol Adsorption on Olive Pit-Derived Activated Carbon. 2021 , 404, 126519	18

360	Colour evolution kinetics study of spirits in their ageing process in wood casks. 2021 , 119, 107468	2
359	New studies of uranium biosorption by extracellular polymeric substances (EPSs) of <i>Aspergillus clavatus</i> , using isotherms, thermodynamics and kinetics. 2021 , 78, 228-246	5
358	Photo isomerization of -cyclooctene to -cyclooctene: Integration of a micro-flow reactor and separation by specific adsorption. 2021 , 67, e17067	3
357	Multivariate optimization of high removal of lead(II) using an efficient synthesized Ni-based metal-organic framework adsorbent. 2021 , 29, 146-153	4
356	Inorganic arsenic species removal from water using bone char: A detailed study on adsorption kinetic and isotherm models using error functions analysis. 2021 , 405, 124112	30
355	Review on polycyclic aromatic hydrocarbons (PAHs) migration from wastewater. 2021 , 236, 103715	13
354	Fabrication of Polyethersulfone/Functionalized MWCNTs Nanocomposite and Investigation its Efficiency as an Adsorbent of Pb(II) Ions. 2021 , 46, 6259-6273	4
353	Kinetic and thermodynamic studies on gas adsorption behaviour of natural fibres. 2021 , 112, 1390-1402	1
352	Biogenic nanoparticles for removal of heavy metals and organic pollutants from water and wastewater: advances, challenges, and future prospects. 2021 , 623-636	3
351	Enhancement of selective adsorption of Cr species via modification of pine biomass. 2021 , 756, 143816	25
350	Antimonate removal by diatomite modified with Fe-Mn oxides: application and mechanism study. 2021 , 28, 13873-13885	6
349	A new model for gas adsorption isotherm at high pressures. 2021 , 46, 6613-6622	2
348	Synthesis of polyamino styrene from post-consumption expanded polystyrene and analysis of its CO ₂ scavenger capacity. 2021 , 18, 2519-2532	0
347	Adsorption of pharmaceuticals from aqueous solutions using biochar derived from cotton gin waste and guayule bagasse. 2021 , 3, 89-104	19
346	Adsorption of 17 β -estradiol in graphene oxide through the competing methanol co-solvent: Experimental and computational analysis. 2021 , 321, 114738	9
345	Kinetic and equilibrium adsorption parameters estimation based on a heterogeneous intraparticle diffusion model. 2021 , 22, 100791	4
344	A strategy for the enhancement of trapping efficiency of gaseous benzene on activated carbon (AC) through modification of their surface functionalities. 2021 , 270, 116239	9
343	Bioproducts from the pyrolysis of castor seed cake: Basic dye adsorption capacity of biochar and antifungal activity of the aqueous phase. 2021 , 9, 104825	9

342	High affinity of 3D spongin scaffold towards Hg(II) in real waters. 2021 , 407, 124807		2
341	Mechanistic insights into fast adsorption of perfluoroalkyl substances on carbonate-layered double hydroxides. 2021 , 408, 124815		5
340	Use of fibroin polypeptide from silk processing waste as an effective biosorbent for heavy metal removal. 2021 ,		0
339	Adsorption studies of benzophenone-3 onto clay minerals and organosilicates: Kinetics and modelling. 2021 , 202, 105937		6
338	High yield glucose assisted carbonization of soy flour for dye removal applications. 2021 , 260, 124174		3
337	Modification of clinoptilolite with dialkylphosphinic acid for the selective removal of cobalt (II) and nickel (II) from hydrometallurgical effluent. 2021 ,		1
336	Adsorption studies of acid dye Eosin yellow on date palm seeds, goethite and their composite. 2021 , 31, 100626		5
335	Cultivation of phagotrophic algae with microbial cells released from waste activated sludge: An evaluation of different pretreatment methods to enhance release of microbial cells from sludge flocs. 2021 , 145, 388-394		
334	Synthesize optimization, characterization, and application of ZIF-8 adsorbent for elimination of olive oil from aqueous solution. 2021 , 28, 12725-12739		4
333	Adsorption of sulfonamides on biochars derived from waste residues and its mechanism. 2021 , 406, 124291		20
332	Fast benzene vapor capture by natural macroporous carbonized fibers improved with carbon nanostructures. <i>Separation and Purification Technology</i> , 2021 , 257, 117956	8.3	3
331	Precise in-situ detection of adsorption kinetics based on fiber-optic sensing with a Y-shaped batch vessel. 2021 , 49, 201-215		
330	Lead adsorption on loess under high ammonium environment. 2021 , 28, 4488-4502		4
329	Non-Arrhenius kinetics and slowed-diffusion mechanism of molecular aggregation of a rhodamine dye on colloidal particles. 2021 , 23, 17177-17185		1
328	Agricultural Waste-Derived Adsorbents for Decontamination of Heavy Metals. 2021 , 371-391		
327	Preparation of Coal-Derived Activated Carbon and Its Application for Adsorption of Metals from Aqueous Solutions. 2021 , 83-141		
326	Kinetics and thermodynamics adsorption of Oxazepam drug on the multi-walled carbon nanotube. 2021 , 68, 799-805		2
325	Magnetic materials and magnetic separation of dyes from aqueous solutions: a review. 2021 , 19, 1275-1294		22

324	Recent developments in pressure swing adsorption for biomethane production. 2021 , 93-116	0
323	Fabrication and characterization of carboxylated and aminolated multiwalled carbon nanotube/polyethersulfone (PES) membranes for the removal of heavy metals from wastewater. 2021 , 60, 994-1004	0
322	Adsorptive removal of methyl orange dye from aqueous solution using populus leaves: Insights from kinetics, thermodynamics and computational studies. 2021 , 3, 172-181	9
321	Adsorption of Malachite Green and Alizarin Red S Dyes Using Fe-BTC Metal Organic Framework as Adsorbent. 2021 , 22,	26
320	Removal of a Textile Azo-Dye (Basic Red 46) in Water by Efficient Adsorption on a Natural Clay. 2021 , 232, 1	14
319	New insight into the role of crosslinkers and composition on selectivity and kinetics of antimony uptake by chitosan-titania composite beads. 2021 , 3, 1	3
318	Magnetic nanomaterials-based photocatalyst for wastewater treatment. 2021 , 241-276	
317	Adsorption isotherms and kinetics. 2021 , 445-509	2
316	Potential Applications of Nanomaterials in Wastewater Treatment. 2021 , 1230-1240	0
315	Adsorption of Triclosan onto Organically Modified-Magadiite and Bentonite. 2021 , 31, 1902-1911	4
314	Application of novel butane-1,4-dioic acid-functionalized cellulosic biosorbent for aqueous cobalt ion sequestration. 2021 , 28, 3599-3615	9
313	Surface modification of Artocarpus odoratissimus leaves using NaOH, SDS and EDTA to enhance adsorption of toxic crystal violet dye. 1-19	3
312	Removal of diclofenac from aqueous solutions by adsorption on thermo-plasma expanded graphite. 2021 , 11, 3427	3
311	Solid waste sub-driven acidic mesoporous activated carbon structures for efficient uranium capture through the treatment of industrial phosphoric acid. 2021 , 21, 101363	6
310	Sustainable adsorbents for the removal of pesticides from water: a review. 2021 , 19, 2425-2463	19
309	Selective enrichment and separation of Ag(I) from electronic waste leachate by chemically modified persimmon tannin. 2021 , 9, 104994	2
308	A Revised Pseudo-Second-Order Kinetic Model for Adsorption, Sensitive to Changes in Adsorbate and Adsorbent Concentrations. 2021 , 37, 3189-3201	11
307	Synthesis of magnetic core-shell amino adsorbent by using uniform design and response surface analysis (RSM) and its application for the removal of Cu, Zn, and Pb. 2021 , 28, 36399-36414	5

306	Nanofibrous membrane of polyacrylonitrile with efficient adsorption capacity for cadmium ions from aqueous solution: Isotherm and kinetic studies. 2021 ,	3
305	Synthesis, Characterization and Application of β - and γ -Cyclodextrin-Conjugated Graphene Oxide for Removing Cadmium Ions from Aqueous Media. 2021 , 29, 3161-3173	2
304	Cellulose/Biochar Cryogels: A Study of Adsorption Kinetics and Isotherms. 2021 , 37, 3180-3188	5
303	Fluoride removal by thermally treated egg shells with high adsorption capacity, low cost, and easy acquisition. 2021 , 28, 35887-35901	8
302	Equilibrium and Kinetic Study of Anionic and Cationic Pollutants Remediation by Limestone-Chitosan-Alginate Nanocomposite from Aqueous Solution. 2021 , 26,	3
301	Biosorption of aluminum ions from aqueous solutions using non-conventional low-cost materials: A review. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101925	6.7 13
300	Isotherms, kinetics and thermodynamics of pb(ii) adsorption by crosslinked chitosan/sepiolite composite. 1	1
299	Synthesis and Characterization of Pd-Ni Bimetallic Nanoparticles as Efficient Adsorbent for the Removal of Acid Orange 8 Present in Wastewater. 2021 , 13, 1095	13
298	Insights into kinetics, isotherms and thermodynamics of phosphorus sorption onto nanoscale zero-valent iron. 2021 , 328, 115402	28
297	Experimental and theoretical investigations on kinetic mechanisms of low-pressure CO ₂ adsorption onto Malaysian coals. 2021 , 88, 103828	3
296	Compositional effects of clay-fly ash geopolymers on the sorption process of lead and zinc. 2021 , 50, 768-781	2
295	Kinetics of Phosphorus Adsorption in The Calcareous Soils of Kurdistan Region, Iraqi. 2021 , 761, 012016	0
294	Chitin-psyllium based aerogel for the efficient removal of crystal violet from aqueous solutions. 2021 , 179, 366-376	10
293	Magnetic bio-activated carbons production using different process parameters for phosphorus removal from artificially prepared phosphorus-rich and domestic wastewater. 2021 , 271, 129561	5
292	Sequestered uptake of chromium(VI) by <i>Irvingia gabonensis</i> stem bark extract anchored silica gel. 1	1
291	Fast removal of samarium ions in water on highly efficient nanocomposite based graphene oxide modified with polyhydroquinone: Isotherms, kinetics, thermodynamics and desorption. 2021 , 329, 115584	28
290	EDTA-based adsorbents for the removal of metal ions in wastewater. 2021 , 434, 213809	19
289	Studies of the potential of a native natural biosorbent for the elimination of an anionic textile dye Cibacron Blue in aqueous solution. 2021 , 11, 9705	7

288	Interaction of Titanium Dioxide with Formaldehyde in the Presence of Quartz Sand under Static and Dynamic Conditions. 2021 , 13, 1420	1
287	Nanobiocomposite Polymer as a Filter Nanosponge for Wastewater Treatment. 2021 , 26,	3
286	Removal of hazardous dyes, toxic metal ions and organic pollutants from wastewater by using porous hyper-cross-linked polymeric materials: A review of recent advances. 2021 , 287, 112360	29
285	Simulating PFAS adsorption kinetics, adsorption isotherms, and nonideal transport in saturated soil with tempered one-sided stable density (TOSD) based models. 2021 , 411, 125169	6
284	BoxBehnken design, kinetic, and isotherm models for oxytetracycline adsorption onto Co-based ZIF-67. 2021 , 11, 2347-2359	2
283	Descriptive data on trichloroethylene and Congo red dye adsorption from wastewater using bio nanosponge phosphorylated-carbon nanotube/nanoparticles polyurethane composite. 2021 , 36, 106940	0
282	Investigation of arsenic removal from aqueous solution through selective sorption and nanofiber-based filters.. 2021 , 19, 1347-1360	
281	Adsorption of phenol and chromium (VI) from aqueous solution using exfoliated graphite: Equilibrium, kinetics and thermodynamic studies. 2021 , 14, 103160	2
280	Thiomers of Chitosan and Cellulose: Effective Biosorbents for Detection, Removal and Recovery of Metal Ions from Aqueous Medium. 2021 , 21, 1876-1896	3
279	Evaluation of Fluoride Adsorption Mechanism and Capacity of Different Types of Bone Char. 2021 , 18,	4
278	Biochar for Wastewater Treatment. 2021 , 103-117	
277	Recycling of Brewer's Spent Grain as a Biosorbent by Nitro-Oxidation for Uranyl Ion Removal from Wastewater. 2021 , 6, 19364-19377	3
276	Detoxification of toxic cations Pb(II) and Cd(II) from liquid phase by employing biowaste: a kinetic investigation. 2021 , 1-8	
275	Chitosan-based nanofibers for enzyme immobilization. 2021 , 183, 1959-1970	13
274	Structure-tunable trivalent Fe-Al-based bimetallic organic frameworks for arsenic removal from contaminated water. 2021 , 346, 117101	1
273	In-depth Insights into Mathematical Characteristics, Selection Criteria and Common Mistakes of Adsorption Kinetic Models: A Critical Review. 1-19	3
272	Sustainable Water Treatment: Use of Agricultural and Industrial Wastes to Remove Mercury by Biosorption. 2021 , 232, 1	0
271	Comparison of Cr(VI) Adsorption Using Synthetic Schwertmannite Obtained by Fe Hydrolysis and Fe Oxidation: Kinetics, Isotherms and Adsorption Mechanism. 2021 , 22,	1

270	Synthesis of FeO@mZrO-Re (Re = Y/La/Ce) by Using Uniform Design, Surface Response Methodology, and Orthogonal Design & Its Application for As and As Removal. 2021 , 11,		2
269	A review on zeolites as cost-effective adsorbents for removal of heavy metals from aqueous environment. 1		3
268	Rice husk-based adsorbents for removing ammonia: Kinetics, thermodynamics and adsorption mechanism. 2021 , 9, 105793		9
267	Biochar □An efficient sorption material for the removal of pharmaceutically active compounds, DNA and RNA fragments from wastewater. 2021 , 9, 105746		6
266	The Dependency of Kinetic Parameters as a Function of Initial Solute Concentration: New Insight from Adsorption of Dye and Heavy Metals onto Humic-Like Modified Adsorbents. 2021 , 16, 773-795		
265	Enhancing the adsorptive capacity of carbon nanofibers by impregnation with ferric oxide for the removal of cadmium from aqueous solution. <i>Journal of Water Process Engineering</i> , 2021 , 42, 102130	6.7	3
264	A critical overview of adsorption kinetics for cooling and refrigeration systems. 2021 , 294, 102468		7
263	Sorption Kinetics of Lead and Zinc Ions by Clay-Fly Ash Geopolymers. 2021 , 38, 729-741		2
262	Photocatalytic Nanofiber Membranes for the Degradation of Micropollutants and Their Antimicrobial Activity: Recent Advances and Future Prospects. 2021 , 11,		6
261	Characterization Techniques as Supporting Tools for the Interpretation of Biochar Adsorption Efficiency in Water Treatment: A Critical Review. 2021 , 26,		1
260	Application of magnetic nanoparticles for the removal of oil from oil-in-water emulsion: Regeneration/reuse of spent particles. 2021 , 203, 108591		9
259	Recovery of lanthanum, praseodymium and samarium by adsorption using magnetic nanoparticles functionalized with a phosphonic group. 2021 , 203, 105698		2
258	Experimental study and modelling of asphaltene deposition on metal surfaces with superhydrophobic and low sliding angle inner coatings. 2021 , 11, 16812		2
257	Preparation of magnetic Levextrel resin for cadmium(II) removal. 2021 , 23, 101657		1
256	Green synthesis for novel sorbent of sand coated with (Ca/Al)-layered double hydroxide for the removal of toxic dye from aqueous environment. 2021 , 9, 105342		6
255	Competitive kinetics of adsorption onto activated carbon for emerging contaminants with contrasting physicochemical properties. 2021 , 1		1
254	Polyaniline-based adsorbents for aqueous pollutants removal: A review. 2021 , 418, 129425		23
253	Impact of Asphaltenes on the Adsorption Behavior of Petroleum Vanadyl Porphyrins: Kinetic and Thermodynamic Aspects. 2021 , 35, 14527-14541		2

252	Functionalization of silica-coated magnetic nanoparticles as powerful demulsifier to recover oil from oil-in-water emulsion. 2021 , 279, 130360	6
251	Remediation of petroleum contaminated saline water using value-added adsorbents derived from waste coconut fibres. 2021 , 279, 130562	5
250	Removal of methyl violet by Moroccan clays: kinetics study and equilibrium mechanism. 1-19	0
249	Fabrication of magnetic cerium-organic framework-activated carbon composite for charged dye removal from aqueous solutions. 2021 , 337, 116578	9
248	Conversion of Spiky Sweetgum tree (<i>Liquidambar styraciflua</i>) Seeds as into Bio-adsorbent: Static and Dynamic Adsorption Assessment. 2021 , 1, 100001	3
247	Efficient heavy metal removal from water by alginate-based porous nanocomposite hydrogels: The enhanced removal mechanism and influencing factor insight. 2021 , 418, 126358	22
246	Magnetic and pH responsive composite hydrogel-based on poly(2-(dimethylamino)ethyl methacrylate)/chitosan for fipronil removal from aqueous medium. 2021 , 105050	2
245	Intelligent modeling and experimental study on methylene blue adsorption by sodium alginate-kaolin beads. 2021 , 186, 79-91	7
244	Adsorption on activated carbons from end-of-life tyre pyrolysis for environmental applications. Part II. Adsorption from aqueous phase. 2021 , 158, 105206	3
243	Cellulosic Ternary Nanocomposite for Affordable and Sustainable Fluoride Removal. 2021 , 9, 12788-12799	3
242	Montmorillonite-anchored magnetite nanocomposite for recovery of ammonium from stormwater and its reuse in adsorption of Sc^{3+} . 2021 , 6, 1	3
241	Tetracycline adsorption mechanisms by NaOH-modified biochar derived from waste <i>Auricularia auricula</i> dregs. 2021 , 1	2
240	Magnetite modified amino group based polymer nanocomposites towards efficient adsorptive detoxification of aqueous Cr (VI): A review. 2021 , 337, 116487	10
239	Isotherms and kinetic modelling of mycoremediation of hexavalent chromium contaminated wastewater. 2021 , 4, 100192	7
238	Application of the Southwell Plot method to determine equilibrium time in phosphate adsorption. 2021 , 242, 103841	
237	Granular silica pillared clay for levofloxacin and gemifloxacin adsorption from aqueous systems. 2021 , 9, 106306	6
236	Simultaneous removal of multiple heavy metals from wastewater by novel plateau laterite ceramic in batch and fixed-bed studies. 2021 , 9, 105792	5
235	Enhanced adsorption of resorcinol onto phosphate functionalized graphene oxide synthesized via Arbusov Reaction: A proposed mechanism of hydrogen bonding and π - π interactions. 2021 , 280, 130730	6

234	Conversion of waste bottlesPET to a hydrogel adsorbent via PET aminolysis. 2021 , 9, 106129		12
233	Mesoporous cellulose-chitosan composite hydrogel fabricated via the co-dissolution-regeneration process as biosorbent of heavy metals. 2021 , 286, 117324		13
232	Adsorption performance of the polystyrene/montmorillonite composites: Effect of plasma treatment. 2021 , 167, 108505		0
231	Aggregation and static adsorption behaviour of <i>Achromobacter</i> sp. TMB1 produced rhamnolipids on sandstone core in relation to microbial enhanced oil recovery. 2021 , 205, 108831		2
230	Ketoglutaric acid modified chitosan/polyacrylamide semi-interpenetrating polymer network hydrogel for removal of heavy metal ions. 2021 , 628, 127262		7
229	Electrochemically driven adsorptive separation techniques: From ions to proteins and cells in liquid streams. <i>Separation and Purification Technology</i> , 2021 , 274, 118754	8.3	4
228	Readiness of lignosulfonate adsorption onto montmorillonite. 2021 , 628, 127318		3
227	Electrochemically modified adsorbents for treatment of aqueous arsenic: Pore diffusion in modified biomass vs. biochar. 2021 , 423, 130061		6
226	A systematic experimental and modeling study of water adsorption/desorption behavior in organic-rich shale with different particle sizes. 2021 , 426, 130596		5
225	Secondary particle size determining sedimentation and adsorption kinetics of titanate-based materials for ammonia nitrogen and methylene blue removal. 2021 , 343, 117026		3
224	Competitive sorption of Cd, Cr, Cu, Ni, Pb and Zn from stormwater runoff by five low-cost sorbents; Effects of co-contaminants, humic acid, salinity and pH. 2022 , 423, 126938		14
223	Evidence of the dominant role of particle size in controlling the dynamic adsorption breakthrough behavior of gaseous benzene in a microporous carbon bed system. 2022 , 427, 130977		2
222	A review on recent trends in the removal of emerging contaminants from aquatic environment using low-cost adsorbents. 2022 , 287, 132270		13
221	Adsorption behaviors of near-critical carbon dioxide on organic-rich shales: Modeling, multifractality, and kinetics. 2022 , 428, 132526		5
220	Mechanistic insights of hexavalent chromium remediation by halloysite-supported copper nanoclusters. 2022 , 421, 126812		4
219	Removal of imidacloprid and acetamiprid in tea (<i>Camellia sinensis</i>) infusion by activated carbon and determination by HPLC. 2022 , 131, 108395		6
218	The Utilization of Biomaterials for Water Purification: Dyes, Heavy Metals, and Pharmaceuticals. 2021 , 27-58		1
217	Novel, Environment-Friendly Cellulose-Based Derivatives for Tetraconazole Removal from Aqueous Solution. 2021 , 13,		3

216	The Removal of Chromium(VI) from Aqueous Solution by Amine-Functionalized Zeolite: Kinetics, Thermodynamics, and Equilibrium Study. 2021 , 12, 654-675	1
215	Hierarchical Assembly of Surface Modified Silk Fibroin Biomass into Micro-, and Milli-Metric Hybrid Aerogels with Core-Shell, Janus, and Composite Configurations for Rapid Removal of Water Pollutants. 2021 , 8, 2001892	6
214	The Kinetic Parameters Evaluation for the Adsorption Processes at Liquid-Solid Interface. 2016 , 81-109	1
213	Fractal-Like Kinetic Models for Fluid-Solid Adsorption. 2018 , 135-161	1
212	Graphene oxide/polyethyleneimine aerogel for high-performance mercury sorption from natural waters. 2020 , 398, 125587	16
211	Comparative study on pharmaceuticals adsorption in reclaimed water desalination concentrate using biochar: Impact of salts and organic matter. 2017 , 601-602, 857-864	63
210	Adsorptive behaviour of nepheline syenite as a new adsorbent for removal of Ag (I) and Pb (II) ions from aqueous solution and industrial wastewater. 1-17	1
209	ADSORPTION OF PARAQUAT DICHLORIDE TO KAOLIN PARTICLES AND TO MIXTURES OF KAOLIN AND HEMATITE PARTICLES IN AQUEOUS SUSPENSIONS. 2015 , 1, 25-36	3
208	Application of Natural Clinoptilolite for Ammonium Removal from Sludge Water. 2020 , 26,	3
207	Removal of Congo Red from Aqueous Synthetic Solutions Using Silica Gel Immobilized Chlorophyta Hydrodictyon Africanum. 2015 , 8, 83-90	4
206	Potential Applications of Nanomaterials in Wastewater Treatment. 2019 , 51-61	11
205	Kinetic and Equilibrium Isotherms Studies of Adsorption of Pb(II) from Water onto Natural Adsorbent. 2014 , 05, 1667-1681	19
204	Synthesis of Nano-Titanium Tannate as an Adsorbent for Crystal Violet Dye, Kinetic and Equilibrium Isotherm Studies. 2015 , 06, 1454-1471	5
203	Adsorption of Cerium (IV) from Aqueous Solutions Using Activated Carbon Developed from Rice Straw. 2016 , 06, 189-200	12
202	Synthesis and controlled release of cloprop herbicides from cloprop-layered double hydroxide and cloprop-zinc-layered hydroxide nanocomposites. 2014 , 04, 1-9	19
201	Interpretation of Adsorption Thermodynamics and Kinetics. 2020 , 10, 166-182	14
200	Mass transfer kinetics using two-site interface model for removal of Cr(VI) from aqueous solution with cassava peel and rubber tree bark as adsorbents. 2016 , 21, 152-163	19
199	Low cost nanoparticles derived from nitrogen fertilizer industry waste for the remediation of copper contaminated soil and water. 2020 , 25, 930-937	9

198	Adsorption Characteristics of Calcined Oyster Shell for the Removal of Fluoride. 2019 , 41, 695-702	2
197	Review of Biochar Properties and Remediation of Metal Pollution of Water and Soil. 2020 , 10, 200902	19
196	Adsorption isotherms and kinetics for the removal of algal organic matter by granular activated carbon. 2022 , 806, 150885	4
195	Production of red mud based nanofibers and their potential in arsenate removal from waste water. 1-10	0
194	Kinetics, Thermodynamics, and Isotherms of Methylene Blue Adsorption Study onto Cassava Stem Activated Carbon. 2021 , 13, 2936	2
193	Precipitation of (Mg/Fe-CTAB) - Layered double hydroxide nanoparticles onto sewage sludge for producing novel sorbent to remove Congo red and methylene blue dyes from aqueous environment. 2021 , 132693	1
192	Kinetic Characteristics of CH ₄ Adsorption on Coals under Variable Temperature Pressure Coupling Interaction. 2021 , 30, 4597	3
191	Assessment of the Effect of Organic Matter on the Retention of Pb+2 in Artificial Soils. 2021 , 232, 1	0
190	A Hydrolytically Stable Cu(II)-Based Metal-Organic Framework with Easily Accessible Ligands for Water Harvesting. 2021 , 13, 49509-49518	1
189	Effect of Pyrolysis Temperature on Copper Aqueous Removal Capability of Biochar Derived from the Kelp <i>Macrocystis pyrifera</i> . 2021 , 11, 9223	2
188	The Irish kelp, <i>Fucus vesiculosus</i> , a highly potential green bio sorbent for Cd (II) removal: Mechanism, quantitative and qualitative approaches. 2021 , 327, 129422	1
187	Thin-Film Materials. 2014 , 63-116	
186	Dynamics of M _x + Salts of Fatty Acids Adsorption onto Metallic Ores. 2015 , 6, 205-210	1
185	New Polysiloxane Surfaces Modified with Ortho-, Meta-, or Para-Nitrophenyl Moieties for Cadmium Removal from Water. 2016 , 06, 18-35	1
184	Sorption and Ion Exchange Characteristics of Chabazite: Competition of Cs with Other Cations. 2016 , 29, 59-71	
183	DETERMINAÇÃO EXPERIMENTAL E MODELAGEM TERMODINÂMICA DA ADSORÇÃO DE DIESEL UTILIZANDO BAGAÇO DE CANA COMO MATERIAL ADSORVENTE.	
182	Effects of Operation Parameters on Heavy Metallic Ion Removal from Mine Waste by Natural Zeolite. 10-24	
181	Nanoparticles of zirconium hydrophosphate framed with a weakly-acidic cation-exchange polymer. 2018 , 9, 26-39	

180	A Non-equilibrium Adsorption Model Based on Irreversible Thermodynamics. 2019 , 521-527		
179	Fabrication of Novel Porous Materials for the Removal of Mercury from Waste Water. 2018 ,		
178	Removal of Pertchnetate ($^{99}\text{TcO}_4$) from Liquid Waste by Magnesium Ferrite (MgFe_2O_4) Nanoparticles Synthesized Using Sol-Gel Auto Combustion Method. 2019 , 09, 68-86	2	
177	Kinetic study on the removal of heavy metals by Cajanus Cajan husk. 206-229		
176	Nano-enhanced Dialytic Fluid Purification: CFD Modeling of Pb(II) Removal by Manganese Oxide. 2020 , 5, 32697-32705		
175	A Study on the Adsorption of 2,4,6, Trichlorophenol by Palm Kernel Cake. 2020 , 89-109		
174	Remarkable adsorption for hazardous organic and inorganic contaminants by multifunctional amorphous core-shell structures of metal-organic framework-alginate composites. 2021 , 133415	2	
173	Recent advances in potassium-based adsorbents for CO ₂ capture and separation: a review. 2021 , 100011	9	
172	Efficiency and mechanisms of Sb(III/V) removal by Fe-modified biochars using X-ray absorption spectroscopy. 2021 , 106741	1	
171	Landslide monitoring system based on water adsorption rate utilizing humidity, accelerometer, and temperature sensors. 2020 , 8, 255-262	1	
170	Sorptive removal of malachite green dye by activated charcoal: Process optimization, kinetic, and thermodynamic evaluation. 2020 , 2, 100025	5	
169	Hydrogels derived from galactoglucomannan hemicellulose with inorganic contaminant removal properties.. 2021 , 11, 35960-35972	1	
168	Engineered biochar: A way forward to environmental remediation. 2021 , 122510	1	
167	The control on adsorption kinetics and selectivity of formaldehyde in relation to different surface-modification approaches for microporous carbon bed systems. <i>Separation and Purification Technology</i> , 2021 , 120178	8.3	0
166	Intensive adsorption of strontium ions by using the synthesized $[\text{Zn}(\text{bim})_2(\text{bdc})]_n$: Metal-organic framework in batch and fixed-bed column experiments.		
165	Solar-driven enhanced chemical adsorption and interfacial evaporation using porous graphene-based spherical composites. 2021 , 133013	1	
164	Integrated experimental and theoretical insights for Malachite Green Dye adsorption from wastewater using low cost adsorbent.. 2021 , 84, 3833-3858	0	
163	Adsorption performance of Food Red 17 dye using an eco-friendly material based on <i>Luffa cylindrica</i> and chitosan. 2021 , 118144	0	

162	Efficient removal of Cd(II) by phosphate-modified biochars derived from apple tree branches: Processes, mechanisms, and application.. 2022 , 819, 152876	2
161	Structural investigation of phosphonium-based ionic liquid impregnated mesostructured silica nanoparticles and application towards the adsorption of Pb(II). 2022 , 178, 328-339	0
160	Importance of spectroscopic and static gravimetric studies for exploring adsorption behavior of propan-2-ol vapor in a fixed-bed column. 2022 , 178, 502-513	0
159	Photocatalytic MIL101(Fe)/ZnO chitosan composites for adsorptive removal of tetracycline antibiotics from the aqueous stream. 2022 , 1252, 132128	7
158	Preparation of effective lithium-ion sieve from sludge-generated TiO ₂ . 2022 , 525, 115491	2
157	Adsorption studies of molybdate(VI)-Mo onto nano zirconium hydroxide gel.. 2021 , 181, 110092	1
156	Pesticide elimination through adsorption by metal-organic framework and their modified forms. 2022 , 17, 100638	1
155	Jute Stick Powder: A new approach to efficient biosorbent for the simultaneous removal of Pb, Cr and Cd from waste water. 2020 , 7, 611-630	
154	Heavy Metal Adsorption Using Magnetic Nanoparticles for Water Purification: A Critical Review.. 2021 , 14,	6
153	Potential of oil palm frond cellulose nanocrystals-activated carbon hydrogel beads for the removal of paracetamol from aqueous media. 2022 , 29, 1583	0
152	Greywater characteristics, impacts, treatment, and reclamation using adsorption processes towards the circular economy.. 2022 , 29, 10966	4
151	The carbon nanomaterials with abnormally high specific surface area for liquid adsorption. 2022 , 655-676	
150	Fabrication, Characterization and Evaluation of an Alginate-Lignin Composite for Rare-Earth Elements Recovery.. 2022 , 15,	2
149	Use of ch ⁺ ßevotte, a valuable co-product of industrial hemp fiber, as adsorbent for copper ions: Kinetic studies and modeling. 2022 , 15, 103742	2
148	Analysis of commonly used batch adsorption kinetic models derived from mass transfer-based modelling.. 2022 , 1	1
147	Effect of Zn Nanoparticles Doping on Oxytetracycline Removal by Natural Aluminosilicate and Carbon Nanotubes. 2022 , 233,	1
146	Modeling of adsorption and release kinetics of methotrexate from thermo/magnetic responsive CoFe ₂ O ₄ @BaTiO ₃ , CoFe ₂ O ₄ @Bi ₄ Ti ₃ O ₁₂ and Fe ₃ O ₄ @BaTiO ₃ core-shell magnetoelectric nanoparticles functionalized with PNIPAm. 2022 , 68, 103121	1
145	Application of nanocomposite polyelectrolytes for the removal of antibiotics as emerging pollutants in water. <i>Journal of Water Process Engineering</i> , 2022 , 46, 102582	6.7 0

- 144 Advances in nanocomposite and nanostructured chitosan membrane adsorbents for environmental remediation: A review. **2022**, 527, 115565 7
- 143 Biosorption investigation of Cu(II) ions from aqueous solutions using sericin/alginate particles: Kinetic, equilibrium, and thermodynamic. **2022**, 25, 100601 2
- 142 Selective recovery of Ag(I) from effluent using 2,5-dimercapto-1,3,4-thiadiazole modified apple pomace. **2022**, 26, 100621
- 141 Effective and simple removal of Hg from real waters by a robust bio-nanocomposite. 0
- 140 Application of Granular Biocomposites Based on Homogenised Peat for Absorption of Oil Products.. **2022**, 15, 1
- 139 Synthesis of a granular composite based on polyvinyl alcohol-Fe:Ce bimetallic oxide particles for the selective adsorption of As(V) from water. *Journal of Water Process Engineering*, **2022**, 46, 102621 6.7 0
- 138 A comprehensive review on emerging natural and tailored materials for chromium-contaminated water treatment and environmental remediation. **2022**, 10, 107325 3
- 137 New Measurement Method for Fast Vapor Adsorption On Particles.
- 136 Disparate result of Adsorptive removal of Fluoride using Manganese oxide-coated Nano γ -alumina oxide used with a different ratio.. **2022**, 1219, 012032
- 135 Recent Progress in Polysaccharide-Based Hydrogel Beads as Adsorbent for Water Pollution Remediation. **2022**, 55-88 1
- 134 Advanced removal of Reactive Yellow 84 azo dye using functionalised amorphous calcium carbonates as adsorbent.. **2022**, 12, 3112 1
- 133 Fine powders from dyed waste wool as odor adsorbent and coloration pigment. **2022**, 400, 117261 1
- 132 Experimental design optimization and isotherm modeling for removal of copper(II) by calcium-terephthalate MOF synthesized from recycled PET waste. 1
- 131 Arsenate Removal from Aqueous Media Using Chitosan-Magnetite Hydrogel by Batch and Fixed-Bed Columns.. **2022**, 8, 0
- 130 Dye removal efficiency of fresh and dry alginate beads incorporating zinc oxide. **2022**, 29, 53-64
- 129 A New Schiff Base Organically Modified Silica Aerogel-Like Material for Metal Ion Adsorption with Ni Selectivity. **2022**, 2022, 1-18 0
- 128 Plant extract mediated synthesis of Fe₃O₄-chitosan composite for the removal of lead ions from aqueous solution. **2022**, 0
- 127 Experimental and kinetics investigations of low-concentration CO₂ adsorption on several amine-functionalized adsorbents. **2022**, 160, 573-583 0

126	Sulfate removal by barium-terephthalate MOF synthesized from recycled PET-waste using Doehlert design optimization. 2022 , 109388		1
125	Graphene Oxide as an Adsorbent for Ruthenium from Aqueous Solution. 2022 , 7,		0
124	Polybenzimidazole membrane for efficient copper removal from aqueous solutions.		
123	New measurement method for fast vapor adsorption on particles. 2022 , 194, 111025		
122	Influence of thermal treatment atmosphere on N-doped carbon spheres for wastewater treatment and supercapacitor applications. 2022 , 284, 126037		0
121	Green citric acid in the sorption process of rare earth elements. 2022 , 437, 135366		2
120	New bimetallic adsorbent material based on cerium-iron nanoparticles highly selective and affine for arsenic(V).. 2022 , 134177		2
119	A comprehensive investigation of external mass transfer and intraparticle diffusion for batch and continuous adsorption of heavy metals using pore volume and surface diffusion model. <i>Separation and Purification Technology</i> , 2022 , 292, 120996	8.3	2
118	Dual-active-sites oriented mesoporous zirconia nanofibers for enhanced removal of phosphate in the presence of humic acid. 2022 , 589, 153018		0
117	Simple Preparation of a Novel Poly(vinyl Alcohol)/Gallic Acid Adsorbent for Effective Removal of Methylene Blue from Aqueous Solution. 2021 , 232, 1		0
116	Behavior and fate of fungicide chlorothalonil in urban landscape soils and associated environmental concern.. 2021 , 1-12		2
115	AN EFFECTIVE BIOSORBENT DERIVED N EFFECTIVE BIOSORBENT DERIVED FROM PRODUCTION WASTE ROM PRODUCTION WASTE FOR WATER TREATMENT: STUDYING OR WATER TREATMENT: STUDYING THE ADSORPTION OF SYNTHETIC DYES HE ADSORPTION OF SYNTHETIC DYES. 2021 , 17-22, 21		1
114	Modelling the kinetics of direct Cu(II) adsorption on two porous resins modified with mussel-inspired chemistry. 2022 , 29, 1		
113	Influence of Porosity and Surface Area of a Modified Kaolinite on the Adsorption of Basic Red 46 (BR-46). 2021 , 232, 1		1
112	Facile fabrication of a phosphonium-based ionic liquid impregnated chitosan adsorbent for the recovery of hexavalent chromium.. 2022 , 12, 11207-11215		1
111	Experimental and RSM study of Hypercrosslinked polystyrene in elimination of lead, cadmium and nickel ions in single and multi-component systems. 2022 ,		0
110	Greener Strategy for Lupanine Purification from Lupin Bean Wastewaters Using a Molecularly Imprinted Polymer.. 2022 ,		0
109	Biodegradable cellulose nanocrystals hydrogels for removal of acid red 8 dye from aqueous solutions.. 2022 , 12, 6424		1

108	A chemometric approach based on Box-Behnken and response surface methodology for design and optimization of ciprofloxacin adsorption from water.	0
107	Composite Materials Based on Gelatin and Iron Oxide Nanoparticles for MRI Accuracy. 2022 , 15, 3479	1
106	Graphene Oxide and Alumina Spheres for Azo Dye (Allura Red) Removal from Aqueous Media. 2022 , 2022, 1-14	
105	Removal of Safranin-T and Toluidine from Water through Gum Arabic/Acrylamide Hydrogel. 2022 , 2022, 1-17	0
104	Ultra-Rapid Removal of Pb (II) Ions by a Nano-MoS ₂ Decorated Graphene Aided by the Unique Combination of Affinity and Electrochemistry. 2200039	2
103	Pore volume and surface diffusion model (PVSDM) applied for single and binary dye adsorption systems. 2022 , 182, 645-658	0
102	A novel method for fabrication of a binary oxide biochar composite for oxidative adsorption of arsenite: Characterization, adsorption mechanism and mass transfer modeling. 2022 , 356, 131832	1
101	Efficient separation of strontium ions from aqueous solution by dibenzo-18-crown-6 functionalized resin: Static and dynamic adsorption studies with computational DFT insights. 2022 , 11, 100308	1
100	One-pot synthesis of brewer's spent grain-supported superabsorbent polymer for highly efficient uranium adsorption from wastewater.. <i>Environmental Research</i> , 2022 , 212, 113333	7.9 0
99	Experimental and theoretical studies of a magnetic mesoporous molecularly imprinted polymer for selective adsorption of estrogens from aqueous solutions. 2022 , 1264, 133221	0
98	Photoswitchable adsorption behavior on a silica surface: A comparison of the partially fluorinated surfactants with the hydrocarbon surfactants. 2022 , 129237	0
97	Removal of phthalates from water by unconventional La-based/WO ₃ photocatalysts.	
96	Contaminants Removal from Wastewater of LFP Batteries Recycling Process Using Adsorption Methods. 920, 29-35	
95	Screening the functions of modified rice straw biochar for adsorbing manganese from drinking water. 2022 , 12, 15222-15230	0
94	Isosorbide-based cyclomatrix polyphosphazene for high-efficient and selective adsorption of cationic dyes: Experimental and computational studies. 2022 , 153689	1
93	A kinetic, isotherm adsorption, and thermodynamic study of Congo red coagulation using <i>Leucaena</i> crude extract as natural coagulant.	1
92	Bioreduction and biosorption of chromium by <i>Undaria pinnatifida</i> . 2022 , 65, 102729	0
91	Effect of modification of <i>Haloxylon recurvum</i> biomass on the sorption of acidic dye from aqueous media.	

90	Hybrid amino-terminated lignin microspheres loaded with magnetite and manganese oxide nanoparticles: an effective hazardous oxyanions adsorbent. 2022 , 108009		0
89	Adsorptive behavior of phosphorus onto recycled waste biosolids after being acid leached from wastewater sludge. 2022 , 11, 100329		
88	Physical and chemical interactions of water with surfaces and particles. 2022 , 135-163		
87	Modeling and optimization of Tylosin adsorption using dehydrated wheat bran: adsorption behaviors, kinetic and thermodynamic studies.		
86	Agro-industrial residues as biosorbents for the removal of anti-inflammatories from aqueous matrices: An overview. 2022 , 100261		1
85	Enhanced Recovery of Palladium from an Aqueous Solution Using an Ionic Liquid/Mesoporous Silica Composite in Batch and Fixed-Column Studies.		0
84	Eco-efficient treatment of hazardous bauxite liquid-residue using acid-activated clays. 2022 , 100040		0
83	Removal of Cr(VI) by biochar derived via co-pyrolysis of oily sludge and corn stalks. 2022 , 12,		0
82	An advanced combination of density functional theory simulations and statistical physics modeling in the unveiling and prediction of adsorption mechanisms of 2,4-D pesticide to activated carbon. 2022 , 361, 119639		0
81	Optimization of the Activation Step in the Synthesis of an Efficient Mesoporous Carbon as Cobalt Adsorbent.		
80	Non linear regression analysis and RSM modeling for removal of Cr (VI) from aqueous solution using PANI@WH composites. 2022 , 126457		0
79	Zr ⁴⁺ cross-linked chitosan-thiourea composite for efficient detoxification of Cr(VI) ions in aqueous solution. <i>Carbohydrate Polymers</i> , 2022 , 119872	10.3	0
78	Lanthanides adsorption on metal-organic framework: Experimental insight and spectroscopic evidence. <i>Separation and Purification Technology</i> , 2022 , 298, 121606	8.3	0
77	Phosphorus recovery from recirculating aquaculture systems: Adsorption kinetics and mechanism. <i>Journal of Water Process Engineering</i> , 2022 , 49, 102992	6.7	2
76	Synergy of Mn-Fe-Al and reconstruction of chemisorption & physisorption in arsenic removal. <i>Separation and Purification Technology</i> , 2022 , 121748	8.3	0
75	Adsorption of As(III) and As(V) by Fe/C composite nanoparticles synthesized via a one-pot hydrothermal approach without the addition of carbon sources. <i>Environmental Research</i> , 2022 , 113899	7.9	0
74	Maize Stalk Obtained after Acid Treatment and Its Use for Simultaneous Removal of Cu ²⁺ , Pb ²⁺ , Ni ²⁺ , Cd ²⁺ , Cr ³⁺ and Fe ³⁺ . 2022 , 14, 3141		0
73	The distribution of adsorption energy of U(VI) onto AEPTEs-functionalized porous silica with multiple average pore sizes. 2022 , 138716		

- 72 Adsorption Potential, Kinetic, and Thermodynamic Studies of Halloysite-Based Magnetic Field-Responsive Adsorbent. **2022**, 233, ○
- 71 Comprehensive experimental study of adsorptive separation process using industrial paraxylene separation as a case study from equilibrium, kinetic and breakthrough points of view. **2022**, 185, 356-367 ○
- 70 Optimized adsorption and effective disposal of Congo red dye from wastewater: Hydrothermal fabrication of MgAl-LDH nanohydroxalcalite-like materials. **2022**, 15, 104171 ○
- 69 Insight into the removal of vanadium ions from model and real wastewaters using surface grafted zirconia-based adsorbents: Batch experiments, equilibrium and mechanism study. **2022**, 324, 116306 ○
- 68 Mass transfer analysis of total nitrogen adsorption from river water onto tea waste (*Camellia Sinensis*). **2022**, 128, 103249 ○
- 67 Effect of polyurethane structure on arsenic adsorption capacity in nanofibrous polymer/ferrous sulphate-based systems. ○
- 66 Kinetic models and thermodynamics of adsorption processes: classification. **2022**, 65-97 1
- 65 Novel modeling and optimization framework for Navy Blue adsorption onto eco-friendly magnetic geopolymer composite. **2023**, 216, 114346 ○
- 64 Strong nanostructured films and effective lead (II) removal capacity based on nitro oxidized cellulose nanofibrils prepared from banana rachis. ○
- 63 Zinc Ions adsorption from aqueous solution using raw and acid-modified orange peels: Kinetics, Isotherm, Thermodynamics, and Adsorption mechanism. **2022**, 233, ○
- 62 Gas Transport Modeling in Organic-Rich Nanoporous Media with Nonequilibrium Sorption Kinetics. **2022**, ○
- 61 Performance and Mechanism of As(III/V) Removal from Aqueous Solution by Fe₃O₄-Sunflower Straw Biochar. **2022**, 10, 534 ○
- 60 Parabens removal from wastewaters by microalgae: Ecotoxicity, metabolism and pathways. **2022**, 139631 1
- 59 The influence of electrolytes in the adsorption kinetics of reactive BF-5G blue dye on bone char: a mass transfer model. 1-17 ○
- 58 Removal efficiency and adsorption mechanisms of CeO₂ nanoparticles onto granular activated carbon used in drinking water treatment plants. **2022**, 159261 1
- 57 Removal of Alizarin red S by calcium-terephthalate MOF synthesized from recycled PET-waste using Box-Behnken and Taguchi designs optimization approaches. **2022**, 316, 123560 1
- 56 Mitigation of Cr (VI) from aqueous solution using jute charcoal iron composite (JC-FeCs): Response surface methodology (RSM). ○
- 55 Adsorption of Phenylalanine from Aqueous Solutions Using Activated Carbon from Sunflower Meal Functionalized with Sulfonic Groups. **2022**, 11, 3427 ○

54	Statistically optimized sequential hydrothermal route for FeTiO ₃ surface modification: evaluation of hazardous cationic dyes adsorptive removal.	1
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