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Use of cellulose-based wastes for adsorption of dyes from aqueous solutions

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1266	Equilibrium and Kinetic Modelling of Adsorption of Phosphorus on Calcined Alunite. <b>2003</b> , 9, 125-132		161
1265	Adsorption characteristics of the dye, Brilliant Green, on Neem leaf powder. <b>2003</b> , 57, 211-222		232
1264	Evaluation of the use of raw and activated date pits as potential adsorbents for dye containing waters. <b>2003</b> , 39, 193-202		270
1263	Adsorption of reactive dyes on calcined alunite from aqueous solutions. <i>Journal of Hazardous Materials</i> , <b>2003</b> , 98, 211-24	12.8	284
1262	Principles of colour loss. Part 2: Degradation of azo dyes by electron transfer, catalysis and radical routes. <b>2003</b> , 119, 14-18		39
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1260	Application of kinetic models to the sorption of disperse dyes onto alunite. <b>2004</b> , 242, 105-113		80
1259	Azadirachta indica leaf powder as an effective biosorbent for dyes: a case study with aqueous Congo Red solutions. <i>Journal of Environmental Management</i> , <b>2004</b> , 71, 217-29	7.9	309
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1102	Influence of impregnation of chitosan beads with cetyl trimethyl ammonium bromide on their structure and adsorption of congo red from aqueous solutions. <b>2009</b> , 155, 254-259	56
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1099	Biosorption of a reactive textile dye from aqueous solutions utilizing an agro-waste. <b>2009</b> , 249, 757-761	113
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1097	Adsorption of some highly toxic dyestuffs from aqueous solution by chitin and its synthesized derivatives. <b>2009</b> , 249, 1115-1123	27
1096	Enhanced adsorption of congo red from aqueous solutions by chitosan hydrogel beads impregnated with cetyl trimethyl ammonium bromide. <b>2009</b> , 100, 2803-9	255
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1094	Performance of mango seed adsorbents in the adsorption of anthraquinone and azo acid dyes in single and binary aqueous solutions. <b>2009</b> , 100, 6199-206	55
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1092	Application of Acid Treated Almond Peel for Removal and Recovery of Brilliant Green from Industrial Wastewater by Column Operation. <b>2009</b> , 44, 1638-1655	20
1091	Removal of Anionic Dyes from Water using <i>Citrus limonum</i> (Lemon) Peel: Equilibrium Studies and Kinetic Modeling. <b>2009</b> , 44, 316-334	46
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1089	Adsorption of Chromium(VI) from Aqueous Solutions Using Cross-Linked Magnetic Chitosan Beads. <b>2009</b> , 48, 2646-2651		123
1088	Radiation Induced Grafting of Glycidylmethacrylate onto Polypropylene Films for Removal of Mercury from Aqueous Solutions. <b>2009</b> , 46, 821-831		4
1087	Adsorption of methylene blue from aqueous solution by chemically treated water hyacinth. <b>2009</b> , 91, 1079-1094		7
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1085	Removal of Congo red from aqueous solutions by neem saw dust carbon. <b>2010</b> , 72, 703-709		9
1084	Biosorption of Acid Yellow 17 from aqueous solution by non-living aerobic granular sludge. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 174, 215-25	12.8	116
1083	Adsorption of methylene blue on low-cost adsorbents: a review. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 177, 70-80	12.8	1919
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1079	Kinetics and adsorption equilibrium in the system aqueous solution of copper ions/granulated activated carbon. <b>2010</b> , 59, 1859-1864		8
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1077	Adsorption Performance and Mechanism in Binding of Azo Dye by Raw Bentonite. <b>2010</b> , 38, 758-763		29
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1071	Adsorptive removal of methyl orange from aqueous solution with metal-organic frameworks, porous chromium-benzenedicarboxylates. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 181, 535-535	12.8	476
1070	Adsorption of methyl orange from aqueous solution onto calcined Lapindo volcanic mud. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 181, 755-62	12.8	185
1069	Selective removal for Pb <sup>2+</sup> in aqueous environment by using novel macroreticular PVA beads. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 181, 898-907	12.8	40
1068	Equilibrium, thermodynamic and kinetic studies on biosorption of Mn(II) from aqueous solution by <i>Pseudomonas</i> sp., <i>Staphylococcus xylosus</i> and <i>Blakeslea trispora</i> cells. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 182, 672-80	12.8	40
1067	Removal of methylene blue from aqueous solution using cotton stalk, cotton waste and cotton dust. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 183, 421-7	12.8	87
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1063	Antioxidant activity in banana peel extracts: Testing extraction conditions and related bioactive compounds. <b>2010</b> , 119, 1030-1039		214
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1060	Removal of methylene blue from aqueous waste using rice husk and rice husk ash. <b>2010</b> , 259, 249-257		103
1059	Fast removal of organic dyes from aqueous solutions by AC/ferrospinel composite. <b>2010</b> , 262, 134-140		61
1058	Statistical and equilibrium studies on enhancing biosorption capacity of <i>Saccharomyces cerevisiae</i> through acid treatment. <b>2010</b> , 264, 102-107		18
1057	Novel biosorbent (Canola hull): Surface characterization and dye removal ability at different cationic dye concentrations. <b>2010</b> , 264, 134-142		68
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1054	Removal of Grey BL from Dye Wastewater by Derris ( <i>Pongamia Glabra</i> ) Leaf Powder by Adsorption. <b>2010</b> , 7, 1454-1462		4

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1052	Sorption of Acid Blue 9 on to Wheat Bran: Optimization, Equilibrium and Kinetic Studies. <b>2010</b> , 5,	
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415	Development of immobilized microcrystalline cellulose as an effective adsorbent for methylene blue dye removal. <b>2018</b> , 26, 11-24	29
414	Using benzoxazine chemistry and bio-based triblock copolymer to prepare functional porous polypeptide capable of efficient dye adsorption. <b>2018</b> , 9, 3684-3693	15
413	Removal of textile dyes from aqueous solutions using low cost Moroccan clay. <b>2018</b> , 161, 012009	4
412	Preparation and Chemical Modification of Rice Husk Char for the Removal of a Toxic Dye (Orange G) from Aqueous Medium. <b>2019</b> , 233, 375-392	7
411	Recent review for removal of metal ions by hydrogels. <b>2019</b> , 54, 89-100	39
410	Enhanced removal of methyl violet 6B cationic dye from aqueous solutions using calcium alginate hydrogel grafted with poly (styrene-co-maleic anhydride). <b>2019</b> , 76, 175-203	19
409	Removal of Brilliant Green dye from water by modified Bambusa Tulda: adsorption isotherm, kinetics and thermodynamics study. <i>International Journal of Environmental Science and Technology</i> , <b>2019</b> , 16, 1649-1662	33 25
408	The synthesis and characterization of a xanthan gum-acrylamide-trimethylolpropane triglycidyl ether hydrogel. <b>2019</b> , 272, 574-579	24
407	Sorption Efficiency in Dye Removal and Thermal Stability of Sorghum Stem Aerogel. <b>2019</b> , 966, 175-180	1
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405	Dynamics of Water Adsorption from Butanol/Water Vapor in a Biosorbent Packed Column. <b>2019</b> , 58, 15619-15627	2
404	Adsorptive Removal of Amido Black 10B from Aqueous Solution using Stem Carbon of Ricinus communis as Adsorbent. <b>2019</b> , 31, 1071-1076	1
403	Study on adsorption of Congo red onto chemically modified egg shell membrane. <b>2019</b> , 236, 124326	52
402	Preparation and study of silica and APTES/silica-modified NiFe <sub>2</sub> O <sub>4</sub> nanocomposites for removal of Cu <sup>2+</sup> and Zn <sup>2+</sup> ions from aqueous solutions. <b>2019</b> , 91, 596-610	8
401	Amido-functionalized carboxymethyl chitosan/montmorillonite composite for highly efficient and cost-effective mercury removal from aqueous solution. <b>2019</b> , 554, 479-487	37
400	Adsorption of methylene blue onto size controlled magnetite nanoparticles. <b>2019</b> , 6, 095511	6
399	Large scale synthesis of nitrogen-doped nanoporous carbon spheres based on miniemulsion polymerization for efficient dye removal. <b>2019</b> , 1, 1	1
398	Effect of the Heterogeneous Structure on Mechanical Properties for a Nanocellulose-Reinforced Polymer Composite. <b>2019</b> , 52, 8266-8274	11
397	Adsorption of Alizarine Red-S Dye from Aqueous Solution by Sago Waste: Resolution of Isotherm, Kinetics and Thermodynamics. <b>2019</b> , 14, 358-367	4
396	One-Pot Synthesis of Xanthate-Functionalized Cellulose for the Detection of Micromolar Copper(II) and Nickel(II) Ions. <b>2019</b> , 47, 1900179	9
395	Facile in-situ growth of Ag/TiO nanoparticles on polydopamine modified bamboo with excellent mildew-proofing. <b>2019</b> , 9, 16496	4
394	Adsorption of Azo Dye Methyl Orange from Aqueous Solutions Using Alkali-Activated Polypyrrole-Based Graphene Oxide. <b>2019</b> , 24,	26
393	Effective removal of methyl orange and rhodamine B from aqueous solution using furfural industrial processing waste: Furfural residue as an eco-friendly biosorbent. <b>2019</b> , 583, 123976	20
392	Insight into the adsorption mechanisms of methylene blue and chromium(iii) from aqueous solution onto pomelo fruit peel.. <b>2019</b> , 9, 25847-25860	58
391	Functionalization of gum arabic including glycoprotein and polysaccharides for the removal of boron. <b>2019</b> , 225, 115139	14
390	Adsorption of dyes acid red 1 and acid green 25 on grafted clay: Modeling and statistical physics interpretation. <b>2019</b> , 294, 111610	35
389	Modification of cellulose with acetic acid to removal of methylene blue dye. <b>2019</b> , 1282, 012079	1
388	Magnetic tuned sorghum husk biosorbent for effective removal of cationic dyes from aqueous solution: isotherm, kinetics, thermodynamics and optimization studies. <b>2019</b> , 9, 1	11

387	Performance evaluation of cement-carbon composite for adsorptive removal of acidic and basic dyes from single and multi-component systems. <b>2019</b> , 16, 100478	12
386	Fabrication, characteristics and applications of carbon materials with different morphologies and porous structures produced from wood liquefaction: A review. <b>2019</b> , 364, 226-243	75
385	A green composite hydrogel based on cellulose and clay as efficient absorbent of colored organic effluent. <b>2019</b> , 210, 314-321	44
384	A clean approach for functionalized carbon nanotubes by deep eutectic solvents and their performance in the adsorption of methyl orange from aqueous solution. <i>Journal of Environmental Management</i> , <b>2019</b> , 235, 521-534	7.9 32
383	Optimization of process parameters for methylene blue removal by jute stick using response surface methodology. <b>2019</b> , 38, 13146	9
382	Porous boron nitride nanoribbons with large width as superior adsorbents for rapid removal of cadmium and copper ions from water. <b>2019</b> , 43, 3280-3290	11
381	Novel AlO/GO/halloysite nanotube composite for sequestration of anionic and cationic dyes.. <b>2019</b> , 9, 13916-13926	12
380	Fabrication of zeolitic imidazolate framework-8 functional polyacrylonitrile nanofibrous mats for dye removal. <b>2019</b> , 26, 1	31
379	ADSORPTION OF CATIONIC DYE FROM AQUEOUS SOLUTION USING COMPOSITE CHICKEN EGG SHELL - ANTHILL CLAY: OPTIMIZATION OF ADSORBENT PREPARATION CONDITIONS. <b>2019</b> , 59, 192-202	4
378	Preparation and characterization of sulphonated bio-adsorbent from waste hawthorn kernel for dye (MB) removal. <b>2019</b> , 287, 110988	22
377	Removal of methylene blue (aq) using untreated and acid-treated eucalyptus leaves and GA-ANN modelling. <b>2019</b> , 97, 2883-2898	18
376	Application of cress seed mucilage magnetic nanocomposites for removal of methylene blue dye from water. <b>2019</b> , 136, 199-208	46
375	Effect of surface chemistry and content of nanocrystalline cellulose on removal of methylene blue from wastewater by poly(acrylic acid)/nanocrystalline cellulose nanocomposite hydrogels. <b>2019</b> , 26, 5603-5619 <sup>29</sup>	
374	Fast decolorization of cationic dyes by nano-scale zero valent iron immobilized in sycamore tree seed pod fibers: kinetics and modelling study. <b>2019</b> , 21, 1130-1144	10
373	Highly efficient dye decontamination via microbial saiecan polysaccharide-based gels. <b>2019</b> , 219, 1-11	39
372	Highly Porous Cellulose Microbeads and their Adsorption for Methylene Blue. <b>2019</b> , 20, 794-803	10
371	Sustainable Agriculture Reviews 34. <b>2019</b> ,	2
370	Polymer Hydrogels and Their Applications Toward Sorptive Removal of Potential Aqueous Pollutants. <b>2019</b> , 59, 418-464	29

369	Application of Date-Palm Fibres for the Wastewater Treatment. <b>2019</b> , 179-191		2
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367	Mussel-inspired, robust and self-healing nanocomposite hydrogels: Effective reusable absorbents for removal both anionic and cationic dyes. <b>2019</b> , 569, 18-27		17
366	Waste Bricks Applied as Removal Agent of Basic Blue 41 from Aqueous Solutions: Base Treatment and Their Regeneration Efficiency. <b>2019</b> , 9, 1237		8
365	Adsorption of Congo red dye on FeCoO nanoparticles. <i>Journal of Environmental Management</i> , <b>2019</b> , 238, 473-483	7.9	82
364	Synthesis of biomass tar-derived foams through spontaneous foaming for ultra-efficient herbicide removal from aqueous solution. <b>2019</b> , 673, 110-119		7
363	Arsenic removal from aqueous solutions and groundwater using agricultural biowastes-derived biosorbents and biochar: a column-scale investigation. <b>2019</b> , 21, 509-518		28
362	A Novel Approach for Modification of Biosorbent by Silane Functionalization and its Industrial Application for Single and Multi-Component Solute System. <b>2019</b> , 233, 1603-1623		24
361	Supplementing multi-functional groups to polysulfone membranes using Azadirachta indica leaves powder for effective and highly selective acid recovery. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 369, 1-8	12.8	11
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359	Eco-friendly celluloseBentonite porous composite hydrogels for adsorptive removal of azo dye and soilless culture. <b>2019</b> , 26, 3339-3358		34
358	Exploring the effect of organicInorganic additives loaded on modified polyethersulfone membranes. <b>2019</b> , 136, 47686		5
357	Statistical optimization for adsorption of Rhodamine B dye from aqueous solutions. <b>2019</b> , 281, 48-58		44
356	Use of municipal vegetative waste as raw material for sorbent production. <b>2019</b> , 687, 066061		2
355	Extraction and characterization of phenolic compounds and dietary fibres from banana peel. <b>2019</b> , 48, 525-537		1
354	Adsorption properties of natural biomass tube clusters for dyes. <b>2019</b> , 12, 1941001		1
353	Synthesis, Characterization, Theoretical Study and Investigation of Adsorption of 4-(Quinolin-8-yl diazenyl)naphthalen-1-ol on Olive peel. <b>2019</b> , 1294, 052042		
352	Investigation into Alternative Energy Sources from Waste Citrus Peel (Orange): Approach to Environmental Protection. <b>2019</b> , 1378, 022066		2

351	Development of a Novel CoreShell Magnetic Fe <sub>3</sub> O <sub>4</sub> @[email protected] Composite with Outstanding Rubidium-Ion Capacity. <b>2019</b> , 64, 5716-5724		9
350	Modification of Radiation Grafted Banana Trunk Fibers for Adsorption of Anionic Dyes. <b>2019</b> , 20, 2556-2569		3
349	Photocatalytic Activities, Kinetics and Adsorption Isotherm Studies of CeO <sub>2</sub> Nanoparticles Synthesized via Low Temperature Combustion Method. <b>2019</b> , 4, 223-234		2
348	Optimisation of crystal violet removal onto raw kaolin using response surface methodology. <b>2019</b> , 22, 85		1
347	Fabrication of a cost-effective lemongrass () membrane with antibacterial activity for dye removal.. <b>2019</b> , 9, 34076-34085		25
346	Removal of arsenic using functionalized cellulose nanofibrils from aqueous solutions. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 367, 256-266	12.8	40
345	Recent advances in remediation of synthetic dyes from wastewaters using sustainable and low-cost adsorbents. <b>2019</b> , 471-507		4
344	Adsorption Behavior of Azo Dyes on Carbon Nanotubes Grown on Alumina: Process Optimization, Kinetics, and Equilibrium Study. <b>2019</b> , 145, 04018134		3
343	Influence of coexisting Cr(VI) and sulfate anions and Cu(II) on the sorption of F-53B to soils. <b>2019</b> , 216, 507-515		7
342	Cellulose-Based Hydrogels for Water Treatment. <b>2019</b> , 1015-1037		3
341	Feasibility of industrial-scale treatment of dye wastewater via bio-adsorption technology. <b>2019</b> , 277, 157-170		235
340	A new MOFs/polymer hybrid membrane: MIL-68(Al)/PVDF, fabrication and application in high-efficient removal of p-nitrophenol and methylene blue. <i>Separation and Purification Technology</i> , <b>2019</b> , 215, 217-226	8.3	55
339	Efficient adsorption of methylene blue and lead ions in aqueous solutions by 5-sulfosalicylic acid modified lignin. <b>2019</b> , 123, 50-58		69
338	Populus tremula, Nerium oleander and Pergularia tomentosa seed fibers as sources of cellulose and lignin for the bio-sorption of methylene blue. <b>2019</b> , 121, 655-665		38
337	Synthesis of novel MnCo <sub>2</sub> O <sub>4</sub> /NaY zeolite nanocomposite adsorbent and its performance for Sr <sup>2+</sup> ions removal from drinking water. <b>2019</b> , 93, 215-227		2
336	Nigella sativa seed based nanocomposite-MnO/BC: An antibacterial material for photocatalytic degradation, and adsorptive removal of Methylene blue from water. <i>Environmental Research</i> , <b>2019</b> , 171, 328-340	7.9	90
335	The synthesis and characterization of hydrous cerium oxide nanoparticles loaded on porous silica micro-sphere as novel and efficient adsorbents to remove phosphate radicals from water. <b>2019</b> , 279, 73-81		19
334	Efficient Removal of Cationic Dyes From Aqueous Solutions Using the Low-Cost Algerian Olive Cake Waste Adsorbent. <b>2019</b> , 71, 791-800		11



333	Highly efficient and selective removal of mercury ions using hyperbranched polyethylenimine functionalized carboxymethyl chitosan composite adsorbent. <b>2019</b> , 358, 253-263		105
332	Kinetics and isotherm studies of methyl orange adsorption by a highly recyclable immobilized polyaniline on a glass plate. <b>2019</b> , 12, 1595-1606		28
331	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. <b>2019</b> , 161, 531-545		10
330	Efficiency of immobilized Zea mays biomass for the adsorption of chromium from simulated media and tannery wastewater. <b>2019</b> , 8, 75-86		27
329	Fabrication of nanocellulose loaded poly(AA-co-HEMA) hydrogels for ceftriaxone controlled delivery and crystal violet adsorption. <b>2019</b> , 40, E559		4
328	Calix[4]arene Resin, An Efficient Adsorbent for Azo Dyes. <b>2019</b> , 39, 238-247		8
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326	The removal of methyl violet 2B dye using palm kernel activated carbon: thermodynamic and kinetics model. <i>International Journal of Environmental Science and Technology</i> , <b>2020</b> , 17, 1773-1782	3-3	9
325	Nanocomposite Materials for Wastewater Decontamination. <b>2020</b> , 23-46		3
324	Removal of Dyes using Wheat Husk Waste as a Low-Cost Adsorbent. <b>2020</b> , 32, 67-76		4
323	Enhanced photocatalytic performance of Cu <sub>2</sub> O nano-photocatalyst powder modified by ball milling and ZnO. <b>2020</b> , 31, 40-50		27
322	An experimental and modelling approach to produce biochar from banana peels through pyrolysis as potential renewable energy resources. <b>2020</b> , 6, 115-128		14
321	Paddle cactus ( <i>Tacinga palmadora</i> ) as potential low-cost adsorbent to treat textile effluents containing crystal violet. <b>2020</b> , 207, 1368-1379		10
320	H <sub>2</sub> O <sub>2</sub> -activated anthracite impregnated with chitosan as a novel composite for Cr(VI) and methyl orange adsorption in single-compound and binary systems: Modeling and mechanism interpretation. <b>2020</b> , 380, 122445		58
319	Determining optimum carob powder adsorption for cleaning wastewater: intelligent optimization with electro-search algorithm. <b>2020</b> , 26, 5665-5679		1
318	Synergistic sorption performance of cellulose-modified La <sub>0.9</sub> Sr <sub>0.1</sub> FeO <sub>3</sub> for organic pollutants. <b>2020</b> , 27, 429-440		5
317	Efficacy of Novel NaX/MgO/TiO <sub>2</sub> Zeolite Nanocomposite for the Adsorption of Methyl Orange (MO) Dye: Isotherm, Kinetic and Thermodynamic Studies. <b>2020</b> , 30, 2067-2080		7
316	Effective use of elderberry ( <i>Sambucus nigra</i> ) pomace in biosorption processes of Fe(III) ions. <b>2020</b> , 246, 125744		16

3 <sup>15</sup>	Preparation of Polyaniline/Emulsion Microsphere Composite for Efficient Adsorption of Organic Dyes. <b>2020</b> , 12,	17
3 <sup>14</sup>	Enhanced removal of cationic dye by eco-friendly activated biochar derived from rice straw. <b>2020</b> , 10, 1	50
3 <sup>13</sup>	Batch and continuous closed circuit semi-fluidized bed operation: Removal of MB dye using sugarcane bagasse biochar and alginate composite adsorbents. <b>2020</b> , 8, 103637	55
3 <sup>12</sup>	Nitrate removal from aqueous solutions by adsorption onto hydrogel-rice husk biochar composite. <b>2020</b> , 92, 934-947	15
3 <sup>11</sup>	Highly efficient and sustainable carboxylated cellulose filters for removal of cationic dyes/heavy metals ions. <b>2020</b> , 389, 123458	46
3 <sup>10</sup>	Hydrothermal carbonization synthesis of cassava slag biochar with excellent adsorption performance for Rhodamine B. <b>2020</b> , 251, 119717	58
3 <sup>09</sup>	The Kinetics and Equilibrium Thermodynamics Study on the Removal of Direct Blue and Titan Yellow Dyes from Aqueous Media by Modified Rice Husk Char. <b>2020</b> , 234, 485-503	2
3 <sup>08</sup>	Biodegradable natural carbohydrate polymeric sustainable adsorbents for efficient toxic dye removal from wastewater. <b>2020</b> , 319, 114356	56
3 <sup>07</sup>	Characterization, Processing, and Application of Heavy Fuel Oil Ash, an Industrial Waste Material - A Review. <b>2020</b> , 20, 1568-1595	7
3 <sup>06</sup>	BR13 dye removal using sodium dodecyl sulfate modified montmorillonite: Equilibrium, thermodynamic, kinetic and reusability studies. <b>2020</b> , 158, 108186	14
3 <sup>05</sup>	Synthesis of activated carbon from macadamia nutshells activated by H <sub>2</sub> SO <sub>4</sub> and K <sub>2</sub> CO <sub>3</sub> for methylene blue removal in water. <b>2020</b> , 12, 100583	9
3 <sup>04</sup>	Fabrication of high performance biodegradable <i>Holarrhena antidysenterica</i> fiber based adsorption devices. <b>2020</b> , 13, 8734-8749	1
3 <sup>03</sup>	Phosphoric acid-treated Spent Tea Residue Biochar for Wastewater Decoloring: Batch Adsorption Study and Process Intensification using Multivariate Data-based Optimization. <b>2020</b> , 158, 108170	16
3 <sup>02</sup>	Batch adsorption of methylene blue dye using <i>Enterolobium contortisiliquum</i> as bioadsorbent: Experimental, mathematical modeling and simulation. <b>2020</b> , 91, 362-371	11
3 <sup>01</sup>	Hybrid nanocomposite of kappa-carrageenan and magnetite as adsorbent material for water purification. <b>2020</b> , 165, 542-553	10
3 <sup>00</sup>	Development of ZnFe <sub>2</sub> O <sub>4</sub> nanoparticle functionalized baker's yeast composite for effective removal of methylene blue via adsorption and photodegradation. <b>2020</b> , 37, 101234	8
2 <sup>99</sup>	Porous carbon prepared from lotus leaves as potential adsorbent for efficient removal of rhodamine B. <b>2020</b> , 7, 055505	5
2 <sup>98</sup>	Adsorption of bisphenol A in aqueous solution by composite bentonite with organic moiety. <b>2020</b> , 308, 110450	12

297	Experimental Study of Adsorption on Activated Carbon for CO <sub>2</sub> Capture. <b>2020</b> ,		0
296	Removal of Anthraquinone Dye via Struvite: Equilibria, Kinetics, Thermodynamics, Fuzzy Logic Modeling. <b>2020</b> , 14, 541-566		7
295	Valorization of agricultural wastes for multidimensional use. <b>2020</b> , 41-78		3
294	Co doped ZrO <sub>2</sub> nanoparticles: An efficient visible light triggered photocatalyst with enhanced structural, optical and dielectric characteristics. <b>2020</b> , 46, 25833-25844		7
293	Synthesis of bimetallic silver-gold nanoparticle composites using a cellulose dope: Tunable nanostructure and its biological activity. <b>2020</b> , 248, 116777		14
292	Efficient adsorbent derived from <i>Argania Spinosa</i> for the adsorption of cationic dye: Kinetics, mechanism, isotherm and thermodynamic study. <b>2020</b> , 20, 100601		13
291	Yerba Mate ( <i>Ilex paraguarensis</i> ) as Bio-Adsorbent for the Removal of Methylene Blue, Remazol Brilliant Blue and Chromium Hexavalent: Thermodynamic and Kinetic Studies. <b>2020</b> , 12, 2016		2
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289	Modification of bio-hydroxyapatite generated from waste poultry bone with MgO for purifying methyl violet-laden liquids. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 44218-44229	5-1	19
288	The improved adsorbent properties of microcrystalline cellulose from oil palm fronds through immobilization technique. <b>2020</b> , 20, 100614		3
287	Adsorption of Anionic Dye on the Acid-Functionalized Bentonite. <i>Materials</i> , <b>2020</b> , 13,	3-5	17
286	Recycling of Agriculture Wastes for Efficient Removal of Methyl Orange Dye Using Batch Adsorption Unit. <b>2020</b> , 881, 012186		1
285	Algal and cyanobacterial biomass as potential dye biodecolorizing material: a review. <b>2020</b> , 42, 2467-2488		8
284	Integrating Faculty Research into the Undergraduate Chemistry Curriculum: A CURE Using Porous Composite Materials for Water Remediation. <b>2020</b> , 79-104		1
283	Adsorptive performance of chemically treated olive pomace for the removal of crystal violet from aqueous solutions: characterisation, optimisation, regeneration and isotherm studies. <b>2020</b> , 1-18		1
282	Adsorption as a Process for Produced Water Treatment: A Review. <b>2020</b> , 8, 1657		32
281	Removal of Fluorescein Dye from Aqueous Solutions Using Natural and Chemically Treated Pine Sawdust. <b>2020</b> , 2020, 8824368		2
280	Modifications of coconut waste as an adsorbent for the removal of heavy metals and dyes from wastewater. <b>2020</b> , 10, 329		3

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278	A Cellulosic Fruit Derived from Biomaterial: Chemical Characterization and Its Valuable Use in the Biosorption of Methylene Blue in a Batch Mode. <b>2020</b> , 12,	6
277	Biosorbents prepared from pomelo peel by hydrothermal technique and its adsorption properties for congo red. <b>2020</b> , 7, 045505	11
276	Amorphous High-Surface-Area Aluminum Hydroxide-Bicarbonates for Highly Efficient Methyl Orange Removal from Water. <b>2020</b> , 36, 6277-6285	6
275	Novel approach for effective removal of methylene blue dye from water using fava bean peel waste. <b>2020</b> , 10, 7824	68
274	Synthesis of an efficient hydroxyapatite-chitosan-montmorillonite thin film for the adsorption of anionic and cationic dyes: adsorption isotherm, kinetic and thermodynamic study. <b>2020</b> , 2, 1	12
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268	Egg By-Products as a Tool to Remove Direct Blue 78 Dye from Wastewater: Kinetic, Equilibrium Modeling, Thermodynamics and Desorption Properties. <i>Materials</i> , <b>2020</b> , 13,	3-5 12
267	Effective photocatalytic degradation and physical adsorption of methylene blue using cellulose/GO/TiO hydrogels.. <b>2020</b> , 10, 23936-23943	34
266	A comparative study of the adsorption of congo red dye on rice husk, rice husk char and chemically modified rice husk char from aqueous media. <b>2020</b> , 34, 41-54	5
265	Recent progress in cellulose-based smart nanocrystals by agricultural resources. <b>2020</b> , 461-483	2
264	Phragmites australis as a new cellulose source: Extraction, characterization and adsorption of methylene blue. <b>2020</b> , 312, 113313	12
263	Adsorption of methylene blue on chemically modified lychee seed biochar: Dynamic, equilibrium, and thermodynamic study. <b>2020</b> , 315, 113743	75
262	Adsorptive Remediation of Congo Red Dye in Aqueous Solutions Using Acid Pretreated Sugarcane Bagasse. <b>2020</b> , 28, 1129-1137	9

261	Facile and Effective Preparation of the Lotus Leaf-based Adsorbent by Exposing Cellulose Nanocrystal for Waste Water Treatment and Air Purification. <b>2020</b> , 21, 350-358		1
260	Removal of Rhodamine B from Water Using a Solvent Impregnated Polymeric Dowex 5WX8 Resin: Statistical Optimization and Batch Adsorption Studies. <b>2020</b> , 12,		25
259	Mechanically Robust Antibacterial Nanopapers Through Mixed Dimensional Assembly for Anionic Dye Removal. <b>2020</b> , 28, 1279-1291		4
258	Recent advances in preparations and applications of carbon aerogels: A review. <b>2020</b> , 163, 1-18		110
257	Synthesis of borax cross-linked Jhingan gum hydrogel for remediation of Remazol Brilliant Blue R (RBBR) dye from water: Adsorption isotherm, kinetic, thermodynamic and biodegradation studies. <b>2020</b> , 151, 677-690		52
256	Efficient waste polyvinyl(butyril) and cellulose composite enabled carbon nanofibers for oxygen reduction reaction and water remediation. <b>2020</b> , 510, 145505		7
255	Adsorption of anionic methyl orange dye and lead(II) heavy metal ion by polyaniline-kapok fiber nanocomposite. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 243, 122682	4-4	37
254	Solid wastes from the enzyme production as a potential biosorbent to treat colored effluents containing crystal violet dye. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 10484-10494	5-1	6
253	Calcined lotus leaf as a low-cost and highly efficient biosorbent for removal of methyl violet dye from aqueous media. <b>2020</b> , 1-24		15
252	Bio-sorbents, industrially important chemicals and novel materials from citrus processing waste as a sustainable and renewable bioresource: A review. <b>2020</b> , 23, 61-82		46
251	Removal of gentian violet and rhodamine B using banyan aerial roots after modification and mechanism studies of differential adsorption behaviors. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 9152-9166	5-1	16
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