

Utilization of agro-industrial and municipal waste material in water treatment – A review

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Thermodynamic aspects of the Pb adsorption using Brazilian sawdust samples: Removal of metal ions from battery industry wastewater. <i>Chemical Engineering Journal</i> , 2010, 160, 549-555.	6.6	24
2	Equilibrium biosorption of lead(II) from aqueous solutions by solid waste from olive-oil production. <i>Chemical Engineering Journal</i> , 2010, 160, 615-622.	6.6	89
3	Removal of 4-chlorophenol from contaminated water using coconut shell waste pretreated with chemical agents. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 1616-1627.	1.6	61
4	Biosorption performance of surface modified biomass obtained from <i>Pyracantha coccinea</i> for the decolorization of dye contaminated solutions. <i>Chemical Engineering Journal</i> , 2010, 160, 466-472.	6.6	52
5	Application of film-pore diffusion model for methylene blue adsorption onto plant leaf powders. <i>Chemical Engineering Journal</i> , 2010, 163, 236-242.	6.6	69
6	Coconut-based biosorbents for water treatment – A review of the recent literature. <i>Advances in Colloid and Interface Science</i> , 2010, 160, 1-15.	7.0	159
7	Self-Assembled Fabrication of Superparamagnetic Highly Stable Mesoporous Amorphous Iron Oxides. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22493-22501.	1.5	30
8	Oil Palm Biomass-Based Adsorbents for the Removal of Water Pollutants – A Review. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 2011, 29, 177-222.	2.9	91
9	Use of <i>Raphanus sativus</i> L. press cake, a solid residue from biodiesel processing, in the production of adsorbents by microwave activation. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 1073-1083.	1.2	15
10	A review of the use of red mud as adsorbent for the removal of toxic pollutants from water and wastewater. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 231-249.	1.2	224
11	Fast detection of methyl tert-butyl ether from water using solid phase microextraction and ion mobility spectrometry. <i>Talanta</i> , 2011, 84, 738-744.	2.9	22
12	Potential utilization of <i>Jatropha curcas</i> L. press-cake residue as new precursor for activated carbon preparation: Application in methylene blue removal from aqueous solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2011, 42, 826-836.	2.7	47
13	Nonpoint Source Pollution, Environmental Quality, and Ecosystem Health in China: Introduction to the Special Section. <i>Journal of Environmental Quality</i> , 2011, 40, 1685-1694.	1.0	15
14	Sorption potential of modified nanocrystals for the removal of aromatic organic pollutant from aqueous solution. <i>Industrial Crops and Products</i> , 2011, 33, 350-357.	2.5	48
15	Removal of textile dyes from aqueous solution by babassu coconut epicarp (<i>Orbignya speciosa</i>). <i>Chemical Engineering Journal</i> , 2011, 173, 334-340.	6.6	71
16	Preparation of novel spherical PVA/ATP composites with macroreticular structure and their adsorption behavior for methylene blue and lead in aqueous solution. <i>Chemical Engineering Journal</i> , 2011, 173, 446-455.	6.6	24
17	Phenol removal from aqueous solution by activated carbon produced from avocado kernel seeds. <i>Chemical Engineering Journal</i> , 2011, 174, 49-57.	6.6	140
18	Copper and nitrophenol removal by low cost alginate/Mauritanian clay composite beads. <i>Chemical Engineering Journal</i> , 2011, 178, 168-174.	6.6	73

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19	An overview of the methods used in the characterisation of natural organic matter (NOM) in relation to drinking water treatment. <i>Chemosphere</i> , 2011, 83, 1431-1442.	4.2	549
20	Development of a non-conventional sorbent from fly ash and its potential use in acid wastewater neutralization and heavy metal removal. <i>Chemical Engineering Journal</i> , 2011, 166, 896-905.	6.6	18
21	Synthesis and characterization of a series of chelating resins containing amino/imino-carboxyl groups and their adsorption behavior for lead in aqueous phase. <i>Chemical Engineering Journal</i> , 2011, 168, 115-124.	6.6	54
22	Alternative Low-cost Adsorbent for Water and Wastewater Decontamination Derived from Eggshell Waste: An Overview. <i>Waste and Biomass Valorization</i> , 2011, 2, 157-167.	1.8	106
23	Drug Delivery Formulations of Ordered and Nonordered Mesoporous Silica: Comparison of Three Drug Loading Methods. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 3294-3306.	1.6	144
24	Selective Adsorption of Phenol and Nitrobenzene by β -Cyclodextrin-Intercalated Layered Double Hydroxide: Equilibrium and Kinetic Study. <i>Chemical Engineering and Technology</i> , 2011, 34, 1559-1566.	0.9	23
25	Slow-release nitrogen and boron fertilizer from a functional superabsorbent formulation based on wheat straw and attapulgit. <i>Chemical Engineering Journal</i> , 2011, 167, 342-348.	6.6	156
26	A review of emerging adsorbents for nitrate removal from water. <i>Chemical Engineering Journal</i> , 2011, 168, 493-504.	6.6	627
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28	Evaluation of cassava peel waste as lowcost biosorbent for Ni-sorption: Equilibrium, kinetics, thermodynamics and mechanism. <i>Chemical Engineering Journal</i> , 2011, 172, 158-166.	6.6	78
29	Removal of methylene blue and crystal violet from aqueous solutions by palm kernel fiber. <i>Desalination</i> , 2011, 272, 225-232.	4.0	298
30	Application of Response Surface Methodology for preparation of low-cost adsorbent from citrus fruit peel and for removal of Methylene Blue. <i>Desalination</i> , 2011, 275, 26-36.	4.0	137
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32	Adsorptive behaviour of mercury on algal biomass: Competition with divalent cations and organic compounds. <i>Journal of Hazardous Materials</i> , 2011, 192, 284-91.	6.5	36
33	Utilization of poly/chitosan as membrane for wastewater treatment. , 2011, , .		2
34	Adsorption of congo red using ethylenediamine modified wheat straw. <i>Desalination and Water Treatment</i> , 2011, 30, 195-206.	1.0	40
35	Kinetics Study of Copper (II) Adsorption from Solution by Wheat Husk. <i>Advanced Materials Research</i> , 2011, 391-392, 404-408.	0.3	1
36	Adsorption of Neutral Red from Solution by Bio-Chars Produced from Pyrolysis of Wheat Straw. <i>Advanced Materials Research</i> , 0, 322, 72-76.	0.3	6

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56	A sustainable approach to controlling oil spills. <i>Journal of Environmental Management</i> , 2012, 113, 213-227.	3.8	329
57	Removal of Emerging Contaminants from Water and Wastewater by Adsorption Process. <i>Springer Briefs in Molecular Science</i> , 2012, , 15-37.	0.1	144
58	Adsorption of heavy metals on kaolinite and montmorillonite: a review. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6698.	1.3	236
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62	Comparison of Dimethyl Disulfide and Carbon Disulfide in Sulfurization of Activated Carbons for Producing Mercury Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 12046-12057.	1.8	34
63	Adsorption study on orange peel: Removal of Ni(II) ions from aqueous solution. <i>African Journal of Biotechnology</i> , 2012, 11, .	0.3	21
64	Characterization and use of in natura and calcined rice husks for biosorption of heavy metals ions from aqueous effluents. <i>Brazilian Journal of Chemical Engineering</i> , 2012, 29, 619-634.	0.7	51
65	Screening of agricultural waste for Ni(II) adsorption: Kinetics, equilibrium and thermodynamic studies. <i>International Journal of Physical Sciences</i> , 2012, 7, .	0.1	3
66	Metal ion adsorption behavior of lignocellulosic fiber ethylene vinyl acetate composites. <i>Polymer Engineering and Science</i> , 2012, 52, 760-767.	1.5	5
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68	The use of date palm as a potential adsorbent for wastewater treatment: a review. <i>Environmental Science and Pollution Research</i> , 2012, 19, 1464-1484.	2.7	183
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71	Application of Response Surface Methodology for Methylene Blue dye removal from aqueous solution using low cost adsorbent. <i>Chemical Engineering Journal</i> , 2012, 181-182, 289-299.	6.6	185
72	Lactic acid production by alkaline hydrothermal treatment of corn cobs. <i>Chemical Engineering Journal</i> , 2012, 181-182, 655-660.	6.6	77

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75	Characterization of red mud granular adsorbent (RMGA) and its performance on phosphate removal from aqueous solution. <i>Chemical Engineering Journal</i> , 2012, 193-194, 161-168.	6.6	71
76	Effects of pyrolysis conditions on the porous structure development of date pits activated carbon. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 94, 215-222.	2.6	98
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78	Preparation and N ₂ , CO ₂ and H ₂ adsorption of super activated carbon derived from biomass source hemp (<i>Cannabis sativa</i> L.) stem. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 108-116.	2.2	112
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87	Novel magnetic beads based on sodium alginate gel crosslinked by zirconium(IV) and their effective removal for Pb ²⁺ in aqueous solutions by using a batch and continuous systems. <i>Bioresource Technology</i> , 2013, 142, 611-619.	4.8	142
88	Investigation on the Selective Adsorption of Mo(VI) by Using Modified Rice Husk and Corn Straw. <i>Waste and Biomass Valorization</i> , 2013, 4, 385-393.	1.8	6
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90	Xenobiotics removal by adsorption in the context of tertiary treatment: a mini review. <i>Environmental Science and Pollution Research</i> , 2013, 20, 5085-5095.	2.7	23

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92	A Comparison Between a Low-Cost Sorbent and an Activated Carbon for the Adsorption of Heavy Metals from Water. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	43
93	Adsorption behavior of light green anionic dye using cationic surfactant-modified wheat straw in batch and column mode. <i>Environmental Science and Pollution Research</i> , 2013, 20, 5558-5568.	2.7	58
94	Adsorption of Direct Blend Yellow D-3RNL onto bamboo-base activated carbon: optimization, kinetics, and isotherm. <i>Desalination and Water Treatment</i> , 2013, 51, 5792-5804.	1.0	3
95	Evaluation of Adsorption Kinetics and Equilibrium for the Removal of Benzene by Modified Diatomite. <i>Chemical Engineering and Technology</i> , 2013, 36, 1713-1720.	0.9	31
96	Recovery of Ammonium onto Wheat Straw To Be Reused as a Slow-Release Fertilizer. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 3382-3388.	2.4	31
97	Contribution of tertiary amino groups to Re(VII) biosorption on modified corn stalk: Competitiveness and regularity. <i>Bioresource Technology</i> , 2013, 133, 546-554.	4.8	64
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110	Effect of heating processes on <i>Salvadora persica</i> (Miswak) and its application for removal and determination of aniline blue from wastewater. <i>Journal of Taibah University for Science</i> , 2013, 7, 26-34.	1.1	19
111	Removal of Cu ²⁺ from Aqueous Solutions Using Na-A Zeolite from Oil Shale Ash. <i>Chinese Journal of Chemical Engineering</i> , 2013, 21, 974-982.	1.7	28
112	Cationic polymer-immobilized polysulfone-based fibers as high performance sorbents for Pt(IV) recovery from acidic solutions. <i>Journal of Hazardous Materials</i> , 2013, 263, 391-397.	6.5	45
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117	The effect of chemical activation method on properties of activated carbons obtained from pine cones. <i>Open Chemistry</i> , 2013, 11, 78-85.	1.0	15
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122	Removal of heavy metals from aqueous solutions by succinic anhydride modified mercerized nanocellulose. <i>Chemical Engineering Journal</i> , 2013, 223, 40-47.	6.6	267
123	Removal of Disperse Red dye by bamboo-based activated carbon: optimisation, kinetics and equilibrium. <i>Environmental Science and Pollution Research</i> , 2013, 20, 4635-4646.	2.7	29
124	DBSA doped polyaniline/multi-walled carbon nanotubes composite for high efficiency removal of Cr(VI) from aqueous solution. <i>Chemical Engineering Journal</i> , 2013, 228, 748-755.	6.6	122
125	Biosorption of Congo red and Indigo carmine by nonviable biomass of a new <i>Dietzia</i> strain isolated from the effluent of a textile industry. <i>Desalination and Water Treatment</i> , 2013, 51, 5840-5847.	1.0	15
126	Gasification of Granulated Scrap Tires for the Production of Syngas and a Low-Cost Adsorbent for Cd(II) Removal from Wastewaters. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 12154-12160.	1.8	49
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132	Progress of Graphene-Based Composites for Adsorption of Pollutants in Wastewater. <i>Applied Mechanics and Materials</i> , 2013, 455, 7-10.	0.2	3
133	Preparation and Characterization of Magnetically Responsive Biosorbents from Coffee Industry Residues. <i>Applied Mechanics and Materials</i> , 0, 394, 3-7.	0.2	7
134	Removal of Methylene Blue from Aqueous Solution by Adsorption on Low-Grade Green Coffee Beans. <i>Advanced Materials Research</i> , 0, 800, 72-76.	0.3	1
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137	Physico-mechanic treatment of nixtamalization by-product (nejayote). <i>CYTA - Journal of Food</i> , 2013, 11, 75-83.	0.9	15
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142	Adsorption of azo dyes using peanut hull and orange peel: a comparative study. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 1436-1453.	1.2	48
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145	Antioxidant Activity and HPLC Analysis of Gallic Acid Phenolic Compound from <i>Nephelium Lappaceum</i> Leaves. <i>Applied Mechanics and Materials</i> , 0, 625, 15-18.	0.2	2

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150	Adsorption of anionic dye on magnesium hydroxide-coated pyrolytic bio-char and reuse by microwave irradiation. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 1439-1448.	1.8	44
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152	Study of different post-hydrolysis methods to improve hemicellulosic monomers extraction. <i>Biomass Conversion and Biorefinery</i> , 2014, 4, 249-258.	2.9	2
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154	Simultaneous Removal of Endocrine Disruptors from a Wastewater Using White Rot Fungi and Various Adsorbents. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	25
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156	Treatment of wastewater by electrocoagulation: a review. <i>Environmental Science and Pollution Research</i> , 2014, 21, 2397-2413.	2.7	299
157	Potential of biological materials for removing heavy metals from wastewater. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1614-1627.	2.7	61
158	Study of adsorption of phenol on activated carbons obtained from eggshells. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 106, 41-47.	2.6	70
159	Relevance of isotherm models in biosorption of pollutants by agricultural byproducts. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 398-414.	3.3	356
160	Preparation of a new chitosan-based material and its application for mercury sorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 446, 224-232.	2.3	48
161	Adsorption of Ni(II), Cu(II) and Cd(II) from aqueous solutions by amino modified nanostructured microfibrillated cellulose. <i>Cellulose</i> , 2014, 21, 1471-1487.	2.4	209
162	Adsorption of Cu(II) and Ni(II) using a Novel Xanthated Carboxymethyl Chitosan. <i>Separation Science and Technology</i> , 2014, 49, 1235-1243.	1.3	21
163	Typical lignocellulosic wastes and by-products for biosorption process in water and wastewater treatment: A critical review. <i>Bioresource Technology</i> , 2014, 160, 57-66.	4.8	366

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#	ARTICLE	IF	CITATIONS
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