

Megat Ahmad Kamal Megat Hanafiah

List of Publications by Citations

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40
papers

4,007
citations

17
h-index

51
g-index

51
ext. papers

4,360
ext. citations

2.6
avg, IF

5.85
L-index

#	Paper	IF	Citations
40	Adsorption of dyes and heavy metal ions by chitosan composites: A review. <i>Carbohydrate Polymers</i> , 2011 , 83, 1446-1456	10.3	1453
39	Removal of heavy metal ions from wastewater by chemically modified plant wastes as adsorbents: a review. <i>Bioresource Technology</i> , 2008 , 99, 3935-48	11	1261
38	Adsorption of copper on rubber (<i>Hevea brasiliensis</i>) leaf powder: Kinetic, equilibrium and thermodynamic studies. <i>Biochemical Engineering Journal</i> , 2008 , 39, 521-530	4.2	254
37	Biosorption of copper ions from dilute aqueous solutions on base treated rubber (<i>Hevea brasiliensis</i>) leaves powder: kinetics, isotherm, and biosorption mechanisms. <i>Journal of Environmental Sciences</i> , 2008 , 20, 1168-76	6.4	108
36	Adsorption of humic acid from aqueous solutions on crosslinked chitosan-epichlorohydrin beads: kinetics and isotherm studies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008 , 65, 18-24	6	106
35	Utilization of chitosan-zeolite composite in the removal of Cu(II) from aqueous solution: Adsorption, desorption and fixed bed column studies. <i>Chemical Engineering Journal</i> , 2012 , 209, 46-53	14.7	100
34	Preparation, Characterization, and Environmental Application of Crosslinked Chitosan-Coated Bentonite for Tartrazine Adsorption from Aqueous Solutions. <i>Water, Air, and Soil Pollution</i> , 2010 , 206, 225-236	2.6	95
33	Malachite Green Adsorption onto Chitosan Coated Bentonite Beads: Isotherms, Kinetics and Mechanism. <i>Clean - Soil, Air, Water</i> , 2010 , 38, 394-400	1.6	95
32	Comparative study on adsorption and desorption of Cu(II) ions by three types of chitosan-zeolite composites. <i>Chemical Engineering Journal</i> , 2013 , 223, 231-238	14.7	87
31	Acid blue 25 adsorption on base treated <i>Shorea dasyphylla</i> sawdust: kinetic, isotherm, thermodynamic and spectroscopic analysis. <i>Journal of Environmental Sciences</i> , 2012 , 24, 261-8	6.4	84
30	Sequestration of toxic Pb(II) ions by chemically treated rubber (<i>Hevea brasiliensis</i>) leaf powder. <i>Journal of Environmental Sciences</i> , 2010 , 22, 248-56	6.4	50
29	Adsorption of lead(II) onto organic acid modified rubber leaf powder: Batch and column studies. <i>Chemical Engineering Research and Design</i> , 2016 , 100, 1-8	5.5	46
28	Kinetics and Thermodynamic Study of Lead Adsorption from Aqueous Solution onto Rubber (<i>Hevea brasiliensis</i>) Leaf Powder. <i>Journal of Applied Sciences</i> , 2006 , 6, 2762-2767	0.3	37
27	Preparation, Characterization, and Adsorption Behavior of Cu(II) Ions onto Alkali-Treated Weed (<i>Imperata cylindrica</i>) Leaf Powder. <i>Water, Air, and Soil Pollution</i> , 2009 , 201, 43-53	2.6	34
26	Preparation and characterization of chitosan-zeolite composites. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 2417-2425	2.9	31
25	Preparation, Characterization and Adsorption Mechanism of Cu(II) onto Protonated Rubber Leaf Powder. <i>Clean - Soil, Air, Water</i> , 2009 , 37, 696-703	1.6	20
24	Ionic Conduction Model in Salted Chitosan Membranes Plasticized with Fatty Acid. <i>Journal of Applied Sciences</i> , 2006 , 6, 1287-1291	0.3	19

23	Surface modification of rubber (<i>Hevea brasiliensis</i>) leaves for the adsorption of copper ions: kinetic, thermodynamic and binding mechanisms. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 192-201	3.5	17
22	Kinetic and Thermodynamic Study of Cd ²⁺ Adsorption onto Rubber Tree (<i>hevea brasiliensis</i>) Leaf Powder. <i>Materials Science Forum</i> , 2006 , 517, 217-221	0.4	17
21	Numerical desirability function for adsorption of methylene blue dye by sulfonated pomegranate peel biochar: Modeling, kinetic, isotherm, thermodynamic, and mechanism study. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 1499-1509	2.8	17
20	XRD and Surface Morphology Studies on Chitosan-Based Film Electrolytes. <i>Journal of Applied Sciences</i> , 2006 , 6, 3150-3154	0.3	13
19	Base Treated Cogon Grass (<i>Imperata cylindrica</i>) as an Adsorbent for the Removal of Ni(II): Kinetic, Isothermal and Fixed-bed Column Studies. <i>Clean - Soil, Air, Water</i> , 2010 , 38, 248-256	1.6	12
18	Fabrication of Schiff Base Chitosan-Glutaraldehyde/Activated Charcoal Composite for Cationic Dye Removal: Optimization Using Response Surface Methodology. <i>Journal of Polymers and the Environment</i> , 2021 , 29, 2855-2868	4.5	8
17	Batch, Column and Thermodynamic of Pb(II) Adsorption on Xanthated Rubber (<i>Hevea brasiliensis</i>) Leaf Powder. <i>Journal of Applied Sciences</i> , 2012 , 12, 1142-1147	0.3	7
16	Monosodium Glutamate Functionalized Chitosan Beads for Adsorption of Precious Cerium Ion. <i>Advanced Materials Research</i> , 2014 , 970, 198-203	0.5	6
15	Cogon Grass for Oil Sorption: Characterization and Sorption Studies. <i>Key Engineering Materials</i> , 2018 , 775, 359-364	0.4	4
14	Adsorption of Cu(II) onto Cross-Linked Chitosan Coated Bentonite Beads: Kinetic and Isotherm Studies. <i>Key Engineering Materials</i> , 2017 , 753, 243-248	0.4	3
13	Kinetic and Isotherm Adsorption Studies of Methylene Blue on Sulfuric Acid Treated Spent Grated Coconut (<i>Cocos nucifera</i>). <i>Advanced Materials Research</i> , 2014 , 970, 192-197	0.5	3
12	Removal of Pb (II) by CS ₂ Modified Kenaf Powder. <i>Advanced Materials Research</i> , 2014 , 970, 7-11	0.5	3
11	Adsorption of Lead Ions onto Citric Acid Modified Rubber (<i>Hevea brasiliensis</i>) Leaves. <i>Advanced Materials Research</i> , 2014 , 896, 288-291	0.5	3
10	Kinetics and Isotherm Studies on Nd(III) Adsorption onto Xanthated Chitosan. <i>Materials Science Forum</i> , 2016 , 857, 530-534	0.4	2
9	Adsorption Behavior of Methylene Blue on Ethylenediaminetetraacetic Dianhydride Modified Neem (<i>Azadirachta indica</i>) Leaf Powder. <i>Key Engineering Materials</i> , 2013 , 594-595, 270-274	0.4	2
8	Adsorption behavior of Pb(II) onto xanthated rubber (<i>Hevea brasiliensis</i>) leaf powder. <i>Polish Journal of Chemical Technology</i> , 2011 , 13, 84-88	1	2
7	Adsorption of Pb(II) Ions on Sulfuric Acid Treated <i>Leucaena leucocephala</i> Leaf Powder. <i>MATEC Web of Conferences</i> , 2015 , 27, 03002	0.3	1
6	Non-Linear Kinetic and Isotherm Modeling on the Adsorption of Lead (II) Ions from Aqueous Solution onto Monosodium Glutamate Functionalised Rubber Leaf Powder. <i>Key Engineering Materials</i> , 2013 , 594-595, 219-225	0.4	1

5	Enhanced Adsorption of Pb(II) on Chemically Treated Neem (<i>Azadirachta indica</i>) Leaf Powder. <i>Advanced Materials Research</i> , 2013 , 856, 128-133	0.5	1
4	Methylene Blue Adsorption onto NaOH Treated <i>Leucaena leucocephala</i> Leaf Powder. <i>Applied Mechanics and Materials</i> , 2015 , 752-753, 251-256	0.3	0
3	Adsorption of Ni(II) onto Chemically Modified Spent Grated Coconut (<i>Cocos Nucifera</i>). <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 205, 012009	0.4	
2	Effect of Physicochemical Parameters on Methylene Blue Adsorption by Sulfuric Acid Treated Spent Grated Coconut. <i>Applied Mechanics and Materials</i> , 2015 , 752-753, 71-76	0.3	
1	Design and Performance of 20 Watts Portable Solar Generator. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012 , 36, 012040	0.4	