

# Megat Ahmad Kamal Megat Hanafiah

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

4,831  
citations

393982

19  
h-index

377514

34  
g-index

51  
all docs

51  
docs citations

51  
times ranked

6016  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of dyes and heavy metal ions by chitosan composites: A review. <i>Carbohydrate Polymers</i> , 2011, 83, 1446-1456.	5.1	1,687
2	Removal of heavy metal ions from wastewater by chemically modified plant wastes as adsorbents: A review. <i>Bioresource Technology</i> , 2008, 99, 3935-3948.	4.8	1,455
3	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.	1.8	297
4	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.	2.5	134
5	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, 1168-1176.	3.2	129
6	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.	1.1	125
7	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.	6.6	125
8	Malachite Green Adsorption onto Chitosan Coated Bentonite Beads: Isotherms, Kinetics and Mechanism. <i>Clean - Soil, Air, Water</i> , 2010, 38, 394-400.	0.7	108
9	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, 261-268.	3.2	107
10	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.	6.6	100
11	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.	1.2	83
12	Fabrication of Schiff's 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.	2.4	65
13	Sequestration of toxic Pb(II) ions by chemically treated rubber ( <i>Hevea brasiliensis</i> ) leaf powder. <i>Journal of Environmental Sciences</i> , 2010, 22, 248-256.	3.2	54
14	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.	2.7	54
15	Preparation and characterization of chitosan-zeolite composites. <i>Journal of Applied Polymer Science</i> , 2012, 125, 2417-2425.	1.3	43
16	Kinetics and Thermodynamic Study of Lead Adsorption from Aqueous Solution onto Rubber ( <i>Hevea</i> )	0.1	41
17	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.	1.1	38
18	Ionic Conduction Model in Salted Chitosan Membranes Plasticized with Fatty Acid. <i>Journal of Applied Sciences</i> , 2006, 6, 1287-1291.	0.1	26

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19	Preparation, Characterization and Adsorption Mechanism of Cu(II) onto Protonated Rubber Leaf Powder. Clean - Soil, Air, Water, 2009, 37, 696-703.	0.7	23
20	Kinetic and Thermodynamic Study of Cd <sup>2+</sup> Adsorption onto Rubber Tree (hevea) Tj ETQq0 0,0 rgBT /Overlock 10	0.3	20
21	Surface modification of rubber ( <i>Hevea brasiliensis</i> ) leaves for the adsorption of copper ions: kinetic, thermodynamic and binding mechanisms. Journal of Chemical Technology and Biotechnology, 2009, 84, 192-201.	1.6	19
22	XRD and Surface Morphology Studies on Chitosan-Based Film Electrolytes. Journal of Applied Sciences, 2006, 6, 3150-3154.	0.1	17
23	Base Treated Cogon Grass ( <i>Imperata cylindrica</i> ) as an Adsorbent for the Removal of Ni(II): Kinetic, Isothermal and Fixed-Bed Column Studies. Clean - Soil, Air, Water, 2010, 38, 248-256.	0.7	15
24	Adsorption of Cu(II) onto Cross-Linked Chitosan Coated Bentonite Beads: Kinetic and Isotherm Studies. Key Engineering Materials, 0, 753, 243-248.	0.4	7
25	Batch, Column and Thermodynamic of Pb(II) Adsorption on Xanthated Rubber ( <i>Hevea brasiliensis</i> ) Leaf Powder. Journal of Applied Sciences, 2012, 12, 1142-1147.	0.1	7
26	Monosodium Glutamate Functionalized Chitosan Beads for Adsorption of Precious Cerium Ion. Advanced Materials Research, 2014, 970, 198-203.	0.3	6
27	Kinetic and Isotherm Adsorption Studies of Methylene Blue on Sulfuric Acid Treated Spent Grated Coconut (<i>Cocos nucifera</i>). Advanced Materials Research, 0, 970, 192-197.	0.3	5
28	Regional Conference on Science, Technology and Social Sciences (RCSTSS 2014). , 2016, , .		5
29	Adsorption behavior of Pb(II) onto xanthated rubber ( <i>Hevea brasiliensis</i> ) leaf powder. Polish Journal of Chemical Technology, 2011, 13, 84-88.	0.3	4
30	Cogon Grass for Oil Sorption: Characterization and Sorption Studies. Key Engineering Materials, 2018, 775, 359-364.	0.4	4
31	Adsorption Behavior of Methylene Blue on Ethylenediaminetetraacetic Dianhydride Modified Neem (<i>Azadirachta indica</i>) Leaf Powder. Key Engineering Materials, 0, 594-595, 270-274.	0.4	3
32	Removal of Pb (II) by CS <sub>2</sub> Modified Kenaf Powder. Advanced Materials Research, 0, 970, 7-11.	0.3	3
33	Adsorption of Lead Ions onto Citric Acid Modified Rubber (<i>Hevea brasiliensis</i>) Leaves. Advanced Materials Research, 0, 896, 288-291.	0.3	3
34	Kinetics and Isotherm Studies on Nd(III) Adsorption onto Xanthated Chitosan. Materials Science Forum, 2016, 857, 530-534.	0.3	3
35	Preparation, Characterization and Application of Sulphuric Acid-Treated Soursop ( <i>Annona muricata</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 21, 217-223.	0.2	3
36	Enhanced Adsorption of Pb(II) on Chemically Treated Neem (<i>Azadirachta indica</i>) Leaf Powder. Advanced Materials Research, 0, 856, 128-133.	0.3	2

#	ARTICLE	IF	CITATIONS
37	Adsorption of Pb(II) Ions on Sulfuric Acid Treated <i>Leucaena leucocephala</i> Leaf Powder. MATEC Web of Conferences, 2015, 27, 03002.	0.1	2
38	Methylene Blue Adsorption onto NaOH Treated <i>Leucaena leucocephala</i> Leaf Powder. Applied Mechanics and Materials, 2015, 752-753, 251-256.	0.2	2
39	Influence of hydrophilicity/hydrophobicity on adsorption/desorption of sulfanilic acid using amine-modified silicas and granular activated carbon. , 0, 249, 109-118.		2
40	Non-Linear Kinetic and Isotherm Modeling on the Adsorption of Lead (II) Ions from Aqueous Solution onto Monosodium Glutamate Functionalised Rubber Leaf Powder. Key Engineering Materials, 2013, 594-595, 219-225.	0.4	1
41	Kinetic, Isotherm, and Possible Mechanism of Pb(II) Ion Adsorption onto Xanthated Neem ( <i>Azadirachta</i> ) Tj ETQq1 10,784314rgBT /Ove	0.3	1
42	Ethylenediaminetetraacetic Dianhydride (EDTAD) Modified Coconut Frond for Removal of Pb(II) Ions: Kinetics, Isotherm and Thermodynamic. Nature Environment and Pollution Technology, 2020, 19, 1465-1474.	0.2	1
43	Synthesis of xanthated chitosan beads for fast and efficient recovery of precious Ce(III) ions from aqueous solutions. , 0, 204, 257-269.		1
44	Comparative Adsorption of Methylene Blue Dye on Hexane-Washed and Xanthated Spent Grated Coconut (<i>Cocos nucifera</i> L.): Isotherms, Thermodynamics and Mechanisms. Journal of Ecological Engineering, 2022, 23, 1-11.	0.5	1
45	Design and Performance of 20 Watts Portable Solar Generator. IOP Conference Series: Materials Science and Engineering, 2012, 36, 012040.	0.3	0
46	Variable filtered photographic film as a radiation detector for environmental radiation monitoring. , 2013, , .		0
47	Effect of Physicochemical Parameters on Methylene Blue Adsorption by Sulfuric Acid Treated Spent Grated Coconut. Applied Mechanics and Materials, 0, 752-753, 71-76.	0.2	0
48	Adsorption of Ni(II) onto Chemically Modified Spent Grated Coconut ( <i>Cocos Nucifera</i> ). IOP Conference Series: Materials Science and Engineering, 2017, 205, 012009.	0.3	0
49	Kinetics, Isotherm, Thermodynamics, and Mechanisms of Pb(II) Adsorption on Chemically Modified Spent Grated Coconut ( <i>Cocos nucifera</i> ). Recent Innovations in Chemical Engineering, 2019, 11, 201-224.	0.2	0
50	Application of Cationic Surfactant Modified Mengkuang Leaves ( <i>Pandanus atropicus</i> ) for the Removal of Reactive Orange 16 from Batik Wastewater: A Column Study. Nature Environment and Pollution Technology, 2021, 20, .	0.2	0