Krishna G Bhattacharyya

List of Publications by Year
in descending order

100	9,578	57758 44	37204 96
papers	citations	h-index	g-index

107	107	107	9587
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation of groundwater and soil quality near to a municipal waste disposal site in Silchar, Assam, India. International Journal of Energy and Water Resources, 2022, 6, 37-47.	2.2	13
2	Plumeria alba (white frangipani) leaf powder as a biomass-based adsorbent for removal of methylene blue in water. Separation Science and Technology, 2022, 57, 2718-2734.	2.5	4
3	Wet Air Oxidation of Phenol on Oxides of Fe(III), Mn(IV), Ti(IV) and Goethite. Current Catalysis, 2022, 11, 71-81.	0.5	0
4	Montmorillonite and modified montmorillonite as adsorbents for removal of water soluble organic dyes: A review on current status of the art. Inorganic Chemistry Communication, 2022, 143, 109686.	3.9	40
5	Estimation of uranium in groundwater and assessment of age-dependent radiation dose in Nalbari district of Assam, India. SN Applied Sciences, 2021, 3, 1.	2.9	22
6	Sequential treatment of paper mill effluent with modified Fenton oxidation and bioflocculation. Environment, Development and Sustainability, 2020, 22, 5425-5442.	5.0	5
7	Kinetics of Aqueous Cu(II) Biosorption onto Thevetia peruviana Leaf Powder. ACS Omega, 2020, 5, 13489-13502.	3.5	29
8	Oxidative degradation of Congo red using zeolite Y as a support for Co(II), Ni(II) and Cu(II) ions. SN Applied Sciences, 2019, 1, 1.	2.9	6
9	Removal of hazardous basic dyes from aqueous solution by adsorption onto kaolinite and acid-treated kaolinite: kinetics, isotherm and mechanistic study. SN Applied Sciences, 2019, 1, 1.	2.9	71
10	Empirical Modeling of Electron Transport in Fe/Ti Layered Double Hydroxide Using Exponential, Gaussian and Mixed Gaussâ€“Exponential Distribution. ACS Omega, 2019, 4, 10599-10609.	3.5	8
11	Toxic Trace Metals in the Surface Water Sources of Jiaâ€“Bharali river basin, North Brahmaputra Plain, Indiaâ€”A Hydrochemical Elucidation. Water Resources, 2019, 46, 117-127.	0.9	5
12	Shallow alluvial aquifers for drinking and agricultural purposes: a case study from Jia Bharali River Basin, North Brahmaputra Plain, India. Sustainable Water Resources Management, 2019, 5, 989-1007.	2.1	0
13	Nanomaterials as versatile adsorbents for heavy metal ions in water: a review. Environmental Science and Pollution Research, 2019, 26, 6245-6278.	5.3	200
14	Use of Cu(II)-incorporated zeolite Y for decolourization of dyes in water: a case study with aqueous methylene blue and Congo red. SN Applied Sciences, 2019, 1, 1.	2.9	9
15	Assessment of water quality in and around Jia-Bharali river basin, North Brahmaputra Plain, India, using multivariate statistical technique. Applied Water Science, 2018, 8, 1.	5.6	16
16	Hydrochemical and Multivariate Statistical Evaluation of Heavy Metals in Shallow Alluvial Aquifers of North Brahmaputra Plain, India. Water Resources, 2018, 45, 966-974.	0.9	1
17	Adsorption of Monoazo Dyes (Crocein Orange G and Procion Red MX5B) from Water Using Raw and Acid-Treated Montmorillonite K10: Insight into Kinetics, Isotherm, and Thermodynamic Parameters. Water, Air, and Soil Pollution, 2018, 229, 1.	2.4	10
18	Mobility and bioavailability of Cd, Co, Cr, Cu, Mn and Zn in surface runoff sediments in the urban catchment area of Guwahati, India. Applied Water Science, 2018, 8, 1.	5.6	17

#	Article	IF	Citations
19	A comparison of neutralization efficiency of chemicals with respect to acidic Kopili River water. Applied Water Science, 2017, 7, 2209-2214.	5.6	6
20	Utilization of Euryale ferox Salisbury seed shell for removal of basic fuchsin dye from water: equilibrium and kinetics investigation. RSC Advances, 2017, 7, 27248-27259.	3.6	36
21	Oil exploration activities: assessment of hazardous impacts on â€˜Golden silkâ€™ cultivation. Environmental Monitoring and Assessment, 2017, 189, 62.	2.7	3
22	Developing a biosorbent from Aegle Marmelos leaves for removal of methylene blue from water. International Journal of Environmental Science and Technology, 2017, 14, 341-352.	3.5	24
23	Multivariate statistical evaluation of heavy metals in the surface water sources of Jia Bharali river basin, North Brahmaputra plain, India. Applied Water Science, 2017, 7, 2577-2586.	5.6	37
24	Dissolved arsenic in the shallow alluvial aquifers in North Brahmaputra Plain, India: a case study in and around lower Jia Bharali River basin. Applied Water Science, 2017, 7, 2967-2974.	5.6	1
25	Characterization of a Novel Polymeric Bioflocculant Produced from Bacterial Utilization of n-Hexadecane and Its Application in Removal of Heavy Metals. Frontiers in Microbiology, 2017, 8, 170.	3.5	52
26	Removal of fluoride from spiked water in the batch or static mode and also in the column or dynamic mode. Desalination and Water Treatment, 2016, 57, 19010-19024.	1.0	2
27	Effects of a Giant Pulp and Paper Mill on the Pollutant Accumulating Capacity of the Soil with Special Reference to its Carbon Sequestering Potential. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	0
28	Biosorption of fluoride on Neem (Azadirachta indica) leaf powder. Journal of Environmental Chemical Engineering, 2015, 3, 662-669.	6.7	57
29	Using coal fly ash as a support for Mn(II), Co(II) and Ni(II) and utilizing the materials as novel oxidation catalysts for 4-chlorophenol mineralization. Journal of Environmental Management, 2015, 150, 479-488.	7.8	20
30	Impact of pulp and paper mill effluents and solid wastes on soil mineralogical and physicochemical properties. Environmental Monitoring and Assessment, 2015, 187, 98.	2.7	10
31	Ecotoxicological risk assessment of trace metals in humid subtropical soil. Ecotoxicology, 2015, 24, 1858-1868.	2.4	3
32	Production of a non-cytotoxic bioflocculant by a bacterium utilizing a petroleum hydrocarbon source and its application in heavy metal removal. RSC Advances, 2015, 5, 66037-66046.	3.6	38
33	Correlation of soil organic carbon and nutrients (NPK) to soil mineralogy, texture, aggregation, and land use pattern. Environmental Monitoring and Assessment, 2015, 187, 735.	2.7	20
34	Use of Raw and Acid-Treated MnO₂as Catalysts for Oxidation of Dyes in Water: A Case Study with Aqueous Methylene Blue. Chemical Engineering Communications, 2015, 202, 1657-1667.	2.6	6
35	Kinetics, equilibrium isotherms and thermodynamics of adsorption of Congo red onto natural and acid-treated kaolinite and montmorillonite. Desalination and Water Treatment, 2015, 53, 530-542.	1.0	18
36	Oxidation of Rhodamine B in aqueous medium in ambient conditions with raw and acid-activated MnO2, NiO, ZnO as catalysts. Journal of Molecular Catalysis A, 2014, 391, 121-129.	4.8	67

#	ARTICLE	IF	CITATIONS
37	Interactions of the dye, Rhodamine B with kaolinite and montmorillonite in water. Applied Clay Science, 2014, 99, 7-17.	5.2	93
38	Adsorption of metal ions by clays and inorganic solids. RSC Advances, 2014, 4, 28537-28586.	3.6	101
39	Cu(II)-kaolinite and Cu(II)-montmorillonite as catalysts for wet oxidative degradation of 2-chlorophenol, 4-chlorophenol and 2,4-dichlorophenol. Chemical Engineering Journal, 2013, 233, 88-97.	12.7	49
40	Liquid Crystalline Behaviors of Polycholesterylmethacrylate and Poly(Cholesterylmethacrylate) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 52, 236-242.	1.9	1
41	Oxidative Degradation of Orange II Dye in Water with Raw and Acidâ€Treated ZnO, and MnO₂. Clean - Soil, Air, Water, 2013, 41, 984-991.	1.1	4
42	Dissolved trace metals in the shallow aquifers of the Jia Bharali River Basin, North Brahmaputra Plain. Journal of the Geological Society of India, 2013, 82, 162-168.	1.1	4
43	Using Aqueous Kaolinite Suspension as a Medium for Removing Phosphate from Water. Adsorption Science and Technology, 2012, 30, 533-547.	3.2	5
44	Adsorption of heavy metals on kaolinite and montmorillonite: a review. Physical Chemistry Chemical Physics, 2012, 14, 6698.	2.8	236
45	Biosorption of Cd(II), Pb(II), and Ni(II) onMagnifera indicaLeaf Powder: An Equilibrium Study. , 2011, , .		0
46	Sorption Dynamics and Process Development for Removal of Copper from Aqueous Solution Using a Biosorbent Based on Mango Tree Leaves. , 2011, , .		1
47	Total concentrations, fractionation and mobility of heavy metals in soils of urban area of Guwahati, India. Environmental Monitoring and Assessment, 2011, 173, 221-240.	2.7	73
48	Kinetics of adsorption of metal ions on inorganic materials: A review. Advances in Colloid and Interface Science, 2011, 162, 39-58.	14.7	654
49	Removal of Cu(II) by natural and acid-activated clays: An insight of adsorption isotherm, kinetic and thermodynamics. Desalination, 2011, 272, 66-75.	8.2	135
50	Biosorption of Acid Blue 25 onAzadirachta indica(NEEM) Leaf Powder. , 2011, , .		0
51	Methylene Blue Adsorption on Natural and Modified Clays. Separation Science and Technology, 2011, 46, 1602-1614.	2.5	43
52	Impact of urbanization on the quality of water in a natural reservoir: a case study with the Deepor Beel in Guwahati city, India. Water and Environment Journal, 2010, 24, 83-96.	2.2	24
53	Adsorption of Cu(II) Ions onto a Cellulosic Biosorbent,Azadirachta IndicaLeaf Powder: Application in Water Treatment. Adsorption Science and Technology, 2010, 28, 869-883.	3.2	3
54	Azadirachta indica leaf powder as a biosorbent for Ni(II) in aqueous medium. Journal of Hazardous Materials, 2009, 165, 271-278.	12.4	24

#	ARTICLE	IF	CITATIONS
55	Fe(III)-, Co(II)- and Ni(II)-impregnated MCM41 for wet oxidative destruction of 2,4-dichlorophenol in water. Catalysis Today, 2009, 141, 225-233.	4.4	49
56	Adsorptive Accumulation of Cd(II), Co(II), Cu(II), Pb(II) and Ni(II) Ions from Water onto Kaolinite: Influence of Acid Activation. Adsorption Science and Technology, 2009, 27, 47-68.	3.2	32
57	Calcined tetrabutylammonium kaolinite and montmorillonite and adsorption of Fe(II), Co(II) and Ni(II) from solution. Applied Clay Science, 2009, 46, 216-221.	5.2	56
58	Oxidation of 4â€nitrophenol in water over Fe(III), Co(II), and Ni(II) impregnated MCM41 catalysts. Journal of Chemical Technology and Biotechnology, 2008, 83, 1353-1363.	3.2	10
59	Catalytic Destruction of 4â€Chlorophenol in Water. Clean - Soil, Air, Water, 2008, 36, 488-497.	1.1	16
60	Immobilization of Pb(II), Cd(II) and Ni(II) ions on kaolinite and montmorillonite surfaces from aqueous medium. Journal of Environmental Management, 2008, 87, 46-58.	7.8	278
61	Wet oxidative method for removal of 2,4,6-trichlorophenol in water using Fe(III), Co(II), Ni(II) supported MCM41 catalysts. Journal of Hazardous Materials, 2008, 150, 728-736.	12.4	50
62	Influence of acid activation on adsorption of Ni(II) and Cu(II) on kaolinite and montmorillonite: Kinetic and thermodynamic study. Chemical Engineering Journal, 2008, 136, 1-13.	12.7	190
63	Catalytic wet oxidation of 2-chlorophenol, 2,4-dichlorophenol and 2,4,6-trichlorophenol in water with Mn(II)-MCM41. Chemical Engineering Journal, 2008, 139, 575-588.	12.7	89
64	Adsorption of a few heavy metals on natural and modified kaolinite and montmorillonite: A review. Advances in Colloid and Interface Science, 2008, 140, 114-131.	14.7	1,198
65	Adsorption of Fe(III), Co(II) and Ni(II) on ZrOâ€“kaolinite and ZrOâ€“montmorillonite surfaces in aqueous medium. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 317, 71-79.	4.7	90
66	Kaolinite and montmorillonite as adsorbents for Fe(III), Co(II) and Ni(II) in aqueous medium. Applied Clay Science, 2008, 41, 1-9.	5.2	153
67	Biosorption of Commercial Dyes on Azadirachta indica Leaf Powder: A Case Study with a Basic Dye Rhodamine B. Industrial & Engineering Chemistry Research, 2008, 47, 5433-5440.	3.7	47
68	Using Mn(II)â^'MCM41 as an Environment-Friendly Catalyst to Oxidize Phenol, 2-Chlorophenol, and 2-Nitrophenol in Aqueous Solution. Industrial & Engineering Chemistry Research, 2008, 47, 1370-1379.	3.7	24
69	Interactions of Pb(II), Cd(II) and Cr(VI) with Neem (Azadirachta indica) leaf powder: kinetics and thermodynamics. International Journal of Environment and Pollution, 2008, 34, 374.	0.2	3
70	Uptake of Ni(II) Ions from Aqueous Solution by Kaolinite and Montmorillonite: Influence of Acid Activation of the Clays. Separation Science and Technology, 2008, 43, 3221-3250.	2.5	18
71	Influence of Acid Activation of Kaolinite and Montmorillonite on Adsorptive Removal of Cd(II) from Water. Industrial & Engineering Chemistry Research, 2007, 46, 3734-3742.	3.7	65
72	Adsorption of Co(II) from Aqueous Medium on Natural and Acid Activated Kaolinite and Montmorillonite. Separation Science and Technology, 2007, 42, 3391-3418.	2.5	38

#	ARTICLE	IF	CITATIONS
73	Adsorptive accumulation of Cd(II), Co(II), Cu(II), Pb(II), and Ni(II) from water on montmorillonite: Influence of acid activation. Journal of Colloid and Interface Science, 2007, 310, 411-424.	9.4	186
74	Adsorption of Chromium(VI) from Water by Clays. Industrial & Engineering Chemistry Research, 2006, 45, 7232-7240.	3.7	194
75	Pb(II) uptake by kaolinite and montmorillonite in aqueous medium: Influence of acid activation of the clays. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 277, 191-200.	4.7	154
76	Adsorption of Ni(II) on clays. Journal of Colloid and Interface Science, 2006, 295, 21-32.	9.4	303
77	Removal of Cd(II) from aqueous solution by kaolinite, montmorillonite and their poly(oxo zirconium) and tetrabutylammonium derivatives. Journal of Hazardous Materials, 2006, 128, 247-257.	12.4	156
78	Adsorption of Fe(III) from water by natural and acid activated clays: Studies on equilibrium isotherm, kinetics and thermodynamics of interactions. Adsorption, 2006, 12, 185-204.	3.0	98
79	Kaolinite, montmorillonite, and their modified derivatives as adsorbents for removal of Cu(II) from aqueous solution. Separation and Purification Technology, 2006, 50, 388-397.	7.9	252
80	Azadirachta indica (Neem) leaf powder as a biosorbent for removal of Cd(II) from aqueous medium. Journal of Hazardous Materials, 2005, 125, 102-112.	12.4	92
81	Kinetics and thermodynamics of Methylene Blue adsorption on Neem () leaf powder. Dyes and Pigments, 2005, 65, 51-59.	3.7	628
82	Adsorption of Chromium (VI) on Azadirachta Indica (Neem) Leaf Powder. Adsorption, 2005, 10, 327-338.	3.0	120
83	Interaction of metal ions with clays: I. A case study with Pb(II). Applied Clay Science, 2005, 30, 199-208.	5.2	159
84	Azadirachta indica leaf powder as an effective biosorbent for dyes: a case study with aqueous Congo Red solutions. Journal of Environmental Management, 2004, 71, 217-229.	7.8	368
85	Adsorption of Pb(II) from aqueous solution by Azadirachta indica (Neem) leaf powder. Journal of Hazardous Materials, 2004, 113, 97-109.	12.4	205
86	Modification of Soil Quality Near a Pulp and Paper Mill. Water, Air, and Soil Pollution, 2003, 146, 319-333.	2.4	24
87	Adsorption characteristics of the dye, Brilliant Green, on Neem leaf powder. Dyes and Pigments, 2003, 57, 211-222.	3.7	273
88	Al-MCM-41 catalysed alkylation of phenol with methanol. Journal of Molecular Catalysis A, 2003, 197, 255-262.	4.8	54
89	Adsorption of methylene blue on kaolinite. Applied Clay Science, 2002, 20, 295-300.	5.2	686
90	Acetylation of phenol with Al-MCM-41. Catalysis Communications, 2001, 2, 105-111.	3.3	23

#	ARTICLE	IF	CITATIONS
91	1-Hexene isomerization and n-hexane cracking over HMCM-22. Applied Catalysis A: General, 2001, 213, 239-245.	4.3	20
92	Novel synthesis of active metal oxide surface from a self-organising system of inorganic solids. Materials Letters, 2000, 46, 105-108.	2.6	8
93	Adsorptive Interaction of Certain Beta-lactam Antibiotics in Aqueous Solution. Interpretation by Frontier Orbital Theory.. Journal of Chemical Engineering of Japan, 2000, 33, 303-307.	0.6	8
94	Adsorption of Cr(VI) in layered double hydroxides. Applied Clay Science, 1998, 13, 21-34.	5.2	216
95	HZSM-5 catalysed conversion of aqueous ethanol to hydrocarbons. Applied Catalysis A: General, 1997, 148, 357-371.	4.3	57
96	Metal speciation in Jhanji River sediments. Science of the Total Environment, 1996, 193, 1-12.	8.0	75
97	XPS study of mica surfaces. Journal of Electron Spectroscopy and Related Phenomena, 1993, 63, 289-306.	1.7	45
98	Hydrogenation of phenol over supported platinum and palladium catalysts. Applied Catalysis A: General, 1993, 96, 229-239.	4.3	89
99	Adsorption of ammonia on mica surfaces. Langmuir, 1992, 8, 2284-2289.	3.5	12
100	Adsorption of carbon dioxide on mica surfaces. Langmuir, 1989, 5, 1155-1162.	3.5	33