

Krishna G Bhattacharyya

List of Publications by Year in descending order

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100
papers

9,578
citations

57719

44
h-index

37183

96
g-index

107
all docs

107
docs citations

107
times ranked

9587
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of groundwater and soil quality near to a municipal waste disposal site in Silchar, Assam, India. <i>International Journal of Energy and Water Resources</i> , 2022, 6, 37-47.	1.3	13
2	<i>Plumeria alba</i> (white frangipani) leaf powder as a biomass-based adsorbent for removal of methylene blue in water. <i>Separation Science and Technology</i> , 2022, 57, 2718-2734.	1.3	4
3	Wet Air Oxidation of Phenol on Oxides of Fe(III), Mn(IV), Ti(IV) and Goethite. <i>Current Catalysis</i> , 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. <i>Inorganic Chemistry Communication</i> , 2022, 143, 109686.	1.8	40
5	Estimation of uranium in groundwater and assessment of age-dependent radiation dose in Nalbari district of Assam, India. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	22
6	Sequential treatment of paper mill effluent with modified Fenton oxidation and bioflocculation. <i>Environment, Development and Sustainability</i> , 2020, 22, 5425-5442.	2.7	5
7	Kinetics of Aqueous Cu(II) Biosorption onto <i>Thevetia peruviana</i> Leaf Powder. <i>ACS Omega</i> , 2020, 5, 13489-13502.	1.6	29
8	Oxidative degradation of Congo red using zeolite Y as a support for Co(II), Ni(II) and Cu(II) ions. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	6
9	Removal of hazardous basic dyes from aqueous solution by adsorption onto kaolinite and acid-treated kaolinite: kinetics, isotherm and mechanistic study. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	71
10	Empirical Modeling of Electron Transport in Fe/Ti Layered Double Hydroxide Using Exponential, Gaussian and Mixed Gauss-Exponential Distribution. <i>ACS Omega</i> , 2019, 4, 10599-10609.	1.6	8
11	Toxic Trace Metals in the Surface Water Sources of Jia-Bharali river basin, North Brahmaputra Plain, India—A Hydrochemical Elucidation. <i>Water Resources</i> , 2019, 46, 117-127.	0.3	5
12	Shallow alluvial aquifers for drinking and agricultural purposes: a case study from Jia Bharali River Basin, North Brahmaputra Plain, India. <i>Sustainable Water Resources Management</i> , 2019, 5, 989-1007.	1.0	0
13	Nanomaterials as versatile adsorbents for heavy metal ions in water: a review. <i>Environmental Science and Pollution Research</i> , 2019, 26, 6245-6278.	2.7	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. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	9
15	Assessment of water quality in and around Jia-Bharali river basin, North Brahmaputra Plain, India, using multivariate statistical technique. <i>Applied Water Science</i> , 2018, 8, 1.	2.8	16
16	Hydrochemical and Multivariate Statistical Evaluation of Heavy Metals in Shallow Alluvial Aquifers of North Brahmaputra Plain, India. <i>Water Resources</i> , 2018, 45, 966-974.	0.3	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. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	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. <i>Applied Water Science</i> , 2018, 8, 1.	2.8	17

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19	A comparison of neutralization efficiency of chemicals with respect to acidic Kopili River water. <i>Applied Water Science</i> , 2017, 7, 2209-2214.	2.8	6
20	Utilization of <i>Euryale ferox</i> Salisbury seed shell for removal of basic fuchsin dye from water: equilibrium and kinetics investigation. <i>RSC Advances</i> , 2017, 7, 27248-27259.	1.7	36
21	Oil exploration activities: assessment of hazardous impacts on "Golden silk"™ cultivation. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 62.	1.3	3
22	Developing a biosorbent from <i>Aegle Marmelos</i> leaves for removal of methylene blue from water. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 341-352.	1.8	24
23	Multivariate statistical evaluation of heavy metals in the surface water sources of Jia Bharali river basin, North Brahmaputra plain, India. <i>Applied Water Science</i> , 2017, 7, 2577-2586.	2.8	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. <i>Applied Water Science</i> , 2017, 7, 2967-2974.	2.8	1
25	Characterization of a Novel Polymeric Biofloculant Produced from Bacterial Utilization of n-Hexadecane and Its Application in Removal of Heavy Metals. <i>Frontiers in Microbiology</i> , 2017, 8, 170.	1.5	52
26	Removal of fluoride from spiked water in the batch or static mode and also in the column or dynamic mode. <i>Desalination and Water Treatment</i> , 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. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	0
28	Biosorption of fluoride on Neem (<i>Azadirachta indica</i>) leaf powder. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 662-669.	3.3	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. <i>Journal of Environmental Management</i> , 2015, 150, 479-488.	3.8	20
30	Impact of pulp and paper mill effluents and solid wastes on soil mineralogical and physicochemical properties. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 98.	1.3	10
31	Ecotoxicological risk assessment of trace metals in humid subtropical soil. <i>Ecotoxicology</i> , 2015, 24, 1858-1868.	1.1	3
32	Production of a non-cytotoxic biofloculant by a bacterium utilizing a petroleum hydrocarbon source and its application in heavy metal removal. <i>RSC Advances</i> , 2015, 5, 66037-66046.	1.7	38
33	Correlation of soil organic carbon and nutrients (NPK) to soil mineralogy, texture, aggregation, and land use pattern. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 735.	1.3	20
34	Use of Raw and Acid-Treated MnO ₂ as Catalysts for Oxidation of Dyes in Water: A Case Study with Aqueous Methylene Blue. <i>Chemical Engineering Communications</i> , 2015, 202, 1657-1667.	1.5	6
35	Kinetics, equilibrium isotherms and thermodynamics of adsorption of Congo red onto natural and acid-treated kaolinite and montmorillonite. <i>Desalination and Water Treatment</i> , 2015, 53, 530-542.	1.0	18
36	Oxidation of Rhodamine B in aqueous medium in ambient conditions with raw and acid-activated MnO ₂ , NiO, ZnO as catalysts. <i>Journal of Molecular Catalysis A</i> , 2014, 391, 121-129.	4.8	67

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37	Interactions of the dye, Rhodamine B with kaolinite and montmorillonite in water. Applied Clay Science, 2014, 99, 7-17.	2.6	93
38	Adsorption of metal ions by clays and inorganic solids. RSC Advances, 2014, 4, 28537-28586.	1.7	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.	6.6	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 Acid-Treated ZnO, and MnO ₂ . Clean - Soil, Air, Water, 2013, 41, 984-991.	0.7	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.	0.5	4
43	Using Aqueous Kaolinite Suspension as a Medium for Removing Phosphate from Water. Adsorption Science and Technology, 2012, 30, 533-547.	1.5	5
44	Adsorption of heavy metals on kaolinite and montmorillonite: a review. Physical Chemistry Chemical Physics, 2012, 14, 6698.	1.3	236
45	Biosorption of Cd(II), Pb(II), and Ni(II) on Magnifera indica Leaf 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.	1.3	73
48	Kinetics of adsorption of metal ions on inorganic materials: A review. Advances in Colloid and Interface Science, 2011, 162, 39-58.	7.0	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.	4.0	135
50	Biosorption of Acid Blue 25 on Azadirachta indica (NEEM) Leaf Powder. , 2011, , .		0
51	Methylene Blue Adsorption on Natural and Modified Clays. Separation Science and Technology, 2011, 46, 1602-1614.	1.3	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.	1.0	24
53	Adsorption of Cu(II) Ions onto a Cellulosic Biosorbent, Azadirachta Indica Leaf Powder: Application in Water Treatment. Adsorption Science and Technology, 2010, 28, 869-883.	1.5	3
54	Azadirachta indica leaf powder as a biosorbent for Ni(II) in aqueous medium. Journal of Hazardous Materials, 2009, 165, 271-278.	6.5	24

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55	Fe(III)-, Co(II)- and Ni(II)-impregnated MCM41 for wet oxidative destruction of 2,4-dichlorophenol in water. <i>Catalysis Today</i> , 2009, 141, 225-233.	2.2	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. <i>Adsorption Science and Technology</i> , 2009, 27, 47-68.	1.5	32
57	Calcined tetrabutylammonium kaolinite and montmorillonite and adsorption of Fe(II), Co(II) and Ni(II) from solution. <i>Applied Clay Science</i> , 2009, 46, 216-221.	2.6	56
58	Oxidation of 4-nitrophenol in water over Fe(III), Co(II), and Ni(II) impregnated MCM41 catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1353-1363.	1.6	10
59	Catalytic Destruction of 4-Chlorophenol in Water. <i>Clean - Soil, Air, Water</i> , 2008, 36, 488-497.	0.7	16
60	Immobilization of Pb(II), Cd(II) and Ni(II) ions on kaolinite and montmorillonite surfaces from aqueous medium. <i>Journal of Environmental Management</i> , 2008, 87, 46-58.	3.8	278
61	Wet oxidative method for removal of 2,4,6-trichlorophenol in water using Fe(III), Co(II), Ni(II) supported MCM41 catalysts. <i>Journal of Hazardous Materials</i> , 2008, 150, 728-736.	6.5	50
62	Influence of acid activation on adsorption of Ni(II) and Cu(II) on kaolinite and montmorillonite: Kinetic and thermodynamic study. <i>Chemical Engineering Journal</i> , 2008, 136, 1-13.	6.6	190
63	Catalytic wet oxidation of 2-chlorophenol, 2,4-dichlorophenol and 2,4,6-trichlorophenol in water with Mn(II)-MCM41. <i>Chemical Engineering Journal</i> , 2008, 139, 575-588.	6.6	89
64	Adsorption of a few heavy metals on natural and modified kaolinite and montmorillonite: A review. <i>Advances in Colloid and Interface Science</i> , 2008, 140, 114-131.	7.0	1,198
65	Adsorption of Fe(III), Co(II) and Ni(II) on ZrO ₂ -kaolinite and ZrO ₂ -montmorillonite surfaces in aqueous medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 317, 71-79.	2.3	90
66	Kaolinite and montmorillonite as adsorbents for Fe(III), Co(II) and Ni(II) in aqueous medium. <i>Applied Clay Science</i> , 2008, 41, 1-9.	2.6	153
67	Biosorption of Commercial Dyes on <i>Azadirachta indica</i> Leaf Powder: A Case Study with a Basic Dye Rhodamine B. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 5433-5440.	1.8	47
68	Using Mn(II)-MCM41 as an Environment-Friendly Catalyst to Oxidize Phenol, 2-Chlorophenol, and 2-Nitrophenol in Aqueous Solution. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 1370-1379.	1.8	24
69	Interactions of Pb(II), Cd(II) and Cr(VI) with <i>Neem</i> (<i>Azadirachta indica</i>) leaf powder: kinetics and thermodynamics. <i>International Journal of Environment and Pollution</i> , 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. <i>Separation Science and Technology</i> , 2008, 43, 3221-3250.	1.3	18
71	Influence of Acid Activation of Kaolinite and Montmorillonite on Adsorptive Removal of Cd(II) from Water. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 3734-3742.	1.8	65
72	Adsorption of Co(II) from Aqueous Medium on Natural and Acid Activated Kaolinite and Montmorillonite. <i>Separation Science and Technology</i> , 2007, 42, 3391-3418.	1.3	38

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73	Adsorptive accumulation of Cd(II), Co(II), Cu(II), Pb(II), and Ni(II) from water on montmorillonite: Influence of acid activation. <i>Journal of Colloid and Interface Science</i> , 2007, 310, 411-424.	5.0	186
74	Adsorption of Chromium(VI) from Water by Clays. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 7232-7240.	1.8	194
75	Pb(II) uptake by kaolinite and montmorillonite in aqueous medium: Influence of acid activation of the clays. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 277, 191-200.	2.3	154
76	Adsorption of Ni(II) on clays. <i>Journal of Colloid and Interface Science</i> , 2006, 295, 21-32.	5.0	303
77	Removal of Cd(II) from aqueous solution by kaolinite, montmorillonite and their poly(oxo zirconium) and tetrabutylammonium derivatives. <i>Journal of Hazardous Materials</i> , 2006, 128, 247-257.	6.5	156
78	Adsorption of Fe(III) from water by natural and acid activated clays: Studies on equilibrium isotherm, kinetics and thermodynamics of interactions. <i>Adsorption</i> , 2006, 12, 185-204.	1.4	98
79	Kaolinite, montmorillonite, and their modified derivatives as adsorbents for removal of Cu(II) from aqueous solution. <i>Separation and Purification Technology</i> , 2006, 50, 388-397.	3.9	252
80	Azadirachta indica (Neem) leaf powder as a biosorbent for removal of Cd(II) from aqueous medium. <i>Journal of Hazardous Materials</i> , 2005, 125, 102-112.	6.5	92
81	Kinetics and thermodynamics of Methylene Blue adsorption on Neem () leaf powder. <i>Dyes and Pigments</i> , 2005, 65, 51-59.	2.0	628
82	Adsorption of Chromium (VI) on Azadirachta Indica (Neem) Leaf Powder. <i>Adsorption</i> , 2005, 10, 327-338.	1.4	120
83	Interaction of metal ions with clays: I. A case study with Pb(II). <i>Applied Clay Science</i> , 2005, 30, 199-208.	2.6	159
84	Azadirachta indica leaf powder as an effective biosorbent for dyes: a case study with aqueous Congo Red solutions. <i>Journal of Environmental Management</i> , 2004, 71, 217-229.	3.8	368
85	Adsorption of Pb(II) from aqueous solution by Azadirachta indica (Neem) leaf powder. <i>Journal of Hazardous Materials</i> , 2004, 113, 97-109.	6.5	205
86	Modification of Soil Quality Near a Pulp and Paper Mill. <i>Water, Air, and Soil Pollution</i> , 2003, 146, 319-333.	1.1	24
87	Adsorption characteristics of the dye, Brilliant Green, on Neem leaf powder. <i>Dyes and Pigments</i> , 2003, 57, 211-222.	2.0	273
88	Al-MCM-41 catalysed alkylation of phenol with methanol. <i>Journal of Molecular Catalysis A</i> , 2003, 197, 255-262.	4.8	54
89	Adsorption of methylene blue on kaolinite. <i>Applied Clay Science</i> , 2002, 20, 295-300.	2.6	686
90	Acetylation of phenol with Al-MCM-41. <i>Catalysis Communications</i> , 2001, 2, 105-111.	1.6	23

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91	1-Hexene isomerization and n-hexane cracking over HMCM-22. Applied Catalysis A: General, 2001, 213, 239-245.	2.2	20
92	Novel synthesis of active metal oxide surface from a self-organising system of inorganic solids. Materials Letters, 2000, 46, 105-108.	1.3	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.	0.3	8
94	Adsorption of Cr(VI) in layered double hydroxides. Applied Clay Science, 1998, 13, 21-34.	2.6	216
95	HZSM-5 catalysed conversion of aqueous ethanol to hydrocarbons. Applied Catalysis A: General, 1997, 148, 357-371.	2.2	57
96	Metal speciation in Jhanji River sediments. Science of the Total Environment, 1996, 193, 1-12.	3.9	75
97	XPS study of mica surfaces. Journal of Electron Spectroscopy and Related Phenomena, 1993, 63, 289-306.	0.8	45
98	Hydrogenation of phenol over supported platinum and palladium catalysts. Applied Catalysis A: General, 1993, 96, 229-239.	2.2	89
99	Adsorption of ammonia on mica surfaces. Langmuir, 1992, 8, 2284-2289.	1.6	12
100	Adsorption of carbon dioxide on mica surfaces. Langmuir, 1989, 5, 1155-1162.	1.6	33