

Shamik Chowdhury

List of Publications by Year in descending order

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72
papers

5,742
citations

117453

34
h-index

91712

69
g-index

74
all docs

74
docs citations

74
times ranked

6246
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption thermodynamics, kinetics and isosteric heat of adsorption of malachite green onto chemically modified rice husk. <i>Desalination</i> , 2011, 265, 159-168.	4.0	799
2	Adsorption of Crystal Violet from aqueous solution onto NaOH-modified rice husk. <i>Carbohydrate Polymers</i> , 2011, 86, 1533-1541.	5.1	466
3	Recent advances in the use of graphene-family nanoadsorbents for removal of toxic pollutants from wastewater. <i>Advances in Colloid and Interface Science</i> , 2014, 204, 35-56.	7.0	434
4	Sea shell powder as a new adsorbent to remove Basic Green 4 (Malachite Green) from aqueous solutions: Equilibrium, kinetic and thermodynamic studies. <i>Chemical Engineering Journal</i> , 2010, 164, 168-177.	6.6	305
5	Insight into adsorption equilibrium, kinetics and thermodynamics of Malachite Green onto clayey soil of Indian origin. <i>Chemical Engineering Journal</i> , 2010, 165, 874-882.	6.6	281
6	Biomass derived low-cost microporous adsorbents for efficient CO ₂ capture. <i>Fuel</i> , 2015, 148, 246-254.	3.4	244
7	Graphene/semiconductor nanocomposites (GSNs) for heterogeneous photocatalytic decolorization of wastewaters contaminated with synthetic dyes: A review. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 307-324.	10.8	186
8	Batch and continuous (fixed-bed column) biosorption of crystal violet by <i>Artocarpus heterophyllus</i> (jackfruit) leaf powder. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 92, 262-270.	2.5	183
9	Biosorption of Basic Green 4 from aqueous solution by <i>Ananas comosus</i> (pineapple) leaf powder. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 520-527.	2.5	171
10	Hydrothermal conversion of urban food waste to chars for removal of textile dyes from contaminated waters. <i>Bioresource Technology</i> , 2014, 161, 310-319.	4.8	171
11	Insight Into Adsorption Thermodynamics. , 0, , .		150
12	Modeling of microwave-assisted extraction of natural dye from seeds of <i>Bixa orellana</i> (Annatto) using response surface methodology (RSM) and artificial neural network (ANN). <i>Industrial Crops and Products</i> , 2013, 41, 165-171.	2.5	149
13	Recent advances and progress in the development of graphene-based adsorbents for CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21968-21989.	5.2	142
14	Assessment on the Removal of Malachite Green Using Tamarind Fruit Shell as Biosorbent. <i>Clean - Soil, Air, Water</i> , 2010, 38, 437-445.	0.7	121
15	Post-combustion CO ₂ capture using mesoporous TiO ₂ /graphene oxide nanocomposites. <i>Chemical Engineering Journal</i> , 2015, 263, 374-384.	6.6	121
16	Three-Dimensional Graphene-Based Porous Adsorbents for Postcombustion CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7906-7916.	1.8	94
17	Artificial neural network (ANN) modeling of adsorption of methylene blue by NaOH-modified rice husk in a fixed-bed column system. <i>Environmental Science and Pollution Research</i> , 2013, 20, 1050-1058.	2.7	88
18	Highly efficient, rapid and selective CO ₂ capture by thermally treated graphene nanosheets. <i>Journal of CO₂ Utilization</i> , 2016, 13, 50-60.	3.3	80

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19	Adsorption Kinetic Modeling of Safranin onto Rice Husk Biomatrix Using Pseudo-First- and Pseudo-Second-Order Kinetic Models: Comparison of Linear and Nonlinear Methods. <i>Clean - Soil, Air, Water</i> , 2011, 39, 274-282.	0.7	78
20	Optimum Sorption Isotherm by Linear and Nonlinear Methods for Safranin onto Alkali-Treated Rice Husk. <i>Bioremediation Journal</i> , 2011, 15, 77-89.	1.0	73
21	Response surface optimization of a dynamic dye adsorption process: a case study of crystal violet adsorption onto NaOH-modified rice husk. <i>Environmental Science and Pollution Research</i> , 2013, 20, 1698-1705.	2.7	72
22	Nitrogen-doped graphene hydrogels as potential adsorbents and photocatalysts for environmental remediation. <i>Chemical Engineering Journal</i> , 2017, 327, 751-763.	6.6	67
23	Biosorption of Direct Red 28 (Congo Red) from Aqueous Solutions by Eggshells: Batch and Column Studies. <i>Separation Science and Technology</i> , 2012, 47, 112-123.	1.3	63
24	Biosorption kinetics, thermodynamics and isosteric heat of sorption of Cu(II) onto Tamarindus indica seed powder. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 697-705.	2.5	60
25	Three-dimensional graphene-based macrostructures for sustainable energy applications and climate change mitigation. <i>Progress in Materials Science</i> , 2017, 90, 224-275.	16.0	60
26	Effect of boron doping level on the photocatalytic activity of graphene aerogels. <i>Carbon</i> , 2018, 128, 237-248.	5.4	56
27	Holey graphene frameworks for highly selective post-combustion carbon capture. <i>Scientific Reports</i> , 2016, 6, 21537.	1.6	54
28	Insight into biosorption equilibrium, kinetics and thermodynamics of crystal violet onto Ananas comosus (pineapple) leaf powder. <i>Applied Water Science</i> , 2012, 2, 135-141.	2.8	53
29	Removal of safranin from aqueous solutions by NaOH-treated rice husk: thermodynamics, kinetics and isosteric heat of adsorption. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012, 7, 236-249.	0.8	51
30	Utilization of a domestic waste—Eggshells for removal of hazardous Malachite Green from aqueous solutions. <i>Environmental Progress and Sustainable Energy</i> , 2012, 31, 415-425.	1.3	50
31	Biosorption of methylene blue from aqueous solutions by a waste biomaterial: hen feathers. <i>Applied Water Science</i> , 2012, 2, 209-219.	2.8	48
32	Scale-up of a dye adsorption process using chemically modified rice husk: optimization using response surface methodology. <i>Desalination and Water Treatment</i> , 2012, 37, 331-336.	1.0	43
33	Environmental impacts of the widespread use of chlorine-based disinfectants during the COVID-19 pandemic. <i>Environmental Science and Pollution Research</i> , 2022, 29, 85742-85760.	2.7	42
34	Plant derived porous graphene nanosheets for efficient CO ₂ capture. <i>RSC Advances</i> , 2014, 4, 44634-44643.	1.7	39
35	New insights into the role of nitrogen-bonding configurations in enhancing the photocatalytic activity of nitrogen-doped graphene aerogels. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 574-585.	5.0	38
36	Pseudo-Second-Order Kinetic Model for Biosorption of Methylene Blue onto Tamarind Fruit Shell: Comparison of Linear and Nonlinear Methods. <i>Bioremediation Journal</i> , 2010, 14, 196-207.	1.0	37

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37	A novel bio-electro-Fenton process for eliminating sodium dodecyl sulphate from wastewater using dual chamber microbial fuel cell. <i>Bioresource Technology</i> , 2021, 341, 125850.	4.8	37
38	Removal of Crystal Violet from Aqueous Solution by Adsorption onto Eggshells: Equilibrium, Kinetics, Thermodynamics and Artificial Neural Network Modeling. <i>Waste and Biomass Valorization</i> , 2013, 4, 655-664.	1.8	33
39	Comparative Analysis of Linear and Nonlinear Methods of Estimating the Pseudo-Second-Order Kinetic Parameters for Sorption of Malachite Green onto Pretreated Rice Husk. <i>Bioremediation Journal</i> , 2011, 15, 181-188.	1.0	31
40	Artificial neural network (ANN) modeling of dynamic adsorption of crystal violet from aqueous solution using citric-acid-modified rice (<i>Oryza sativa</i>) straw as adsorbent. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 255-264.	2.1	31
41	Nitrogen and sulfur codoped graphene aerogels as absorbents and visible light-active photocatalysts for environmental remediation applications. <i>Environmental Pollution</i> , 2019, 251, 344-353.	3.7	31
42	Adsorption of Crystal Violet From Aqueous Solution by Citric Acid Modified Rice Straw: Equilibrium, Kinetics, and Thermodynamics. <i>Separation Science and Technology</i> , 2013, 48, 1339-1348.	1.3	28
43	Adsorption Thermodynamics and Kinetics of Malachite Green onto Ca(OH) ₂ -Treated Fly Ash. <i>Journal of Environmental Engineering, ASCE</i> , 2011, 137, 388-397.	0.7	27
44	Mechanistic, Kinetic, and Thermodynamic Evaluation of Adsorption of Hazardous Malachite Green onto Conch Shell Powder. <i>Separation Science and Technology</i> , 2011, 46, 1966-1976.	1.3	26
45	Nitrogen and Sulfur Codoped Graphene Macroassemblies as High-Performance Electrocatalysts for the Oxygen Reduction Reaction in Microbial Fuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16591-16599.	3.2	25
46	Landfill leachate as an alternative moisture source for hydrothermal carbonization of municipal solid wastes to solid biofuels. <i>Bioresource Technology</i> , 2021, 320, 124410.	4.8	25
47	Therapeutic Applications of Metal and Metal-Oxide Nanoparticles: Dermato-Cosmetic Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 724499.	2.0	25
48	Fish (<i>Labeo rohita</i>) Scales as Potential Low-Cost Biosorbent for Removal of Malachite Green from Aqueous Solutions. <i>Bioremediation Journal</i> , 2012, 16, 235-242.	1.0	24
49	Adsorption of malachite green from aqueous solution by NaOH-modified rice husk: Fixed bed column studies. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 633-639.	1.3	22
50	Linear and Nonlinear Regression Analyses for Binary Sorption Kinetics of Methylene Blue and Safranin onto Pretreated Rice Husk. <i>Bioremediation Journal</i> , 2011, 15, 99-108.	1.0	21
51	Efficient removal of bisphenol A and disinfection of waterborne pathogens by boron/nitrogen codoped graphene aerogels via the synergy of adsorption and photocatalysis under visible light. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104300.	3.3	16
52	Batch Removal of Crystal Violet from Aqueous Solution by H ₂ SO ₄ -Modified Sugarcane Bagasse: Equilibrium, Kinetic, and Thermodynamic Profile. <i>Separation Science and Technology</i> , 2012, 47, 1898-1905.	1.3	15
53	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
54	Biosorption of hazardous textile dyes from aqueous solutions by hen feathers: Batch and column studies. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1567-1576.	1.2	14

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55	Adsorption of crystal violet from aqueous solution onto sugarcane bagasse: central composite design for optimization of process variables. <i>Journal of Water Reuse and Desalination</i> , 2012, 2, 55-65.	1.2	13
56	Pseudo-second-order kinetic models for the sorption of malachite green onto <i>Tamarindus indica</i> seeds: Comparison of linear and non-linear methods. <i>Desalination and Water Treatment</i> , 2011, 30, 229-236.	1.0	12
57	Batch and continuous (fixed-bed column) biosorption of Cu(II) by <i>Tamarindus indica</i> fruit shell. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 369-378.	1.2	12
58	Date Palm Based Activated Carbon for the Efficient Removal of Organic Dyes from Aqueous Environment. <i>Sustainable Agriculture Reviews</i> , 2019, , 247-263.	0.6	12
59	Citric acid modified wheat bran as a potential adsorbent for removal of Cu(II) and Malachite Green from aqueous solutions. <i>Desalination and Water Treatment</i> , 2013, 51, 6038-6048.	1.0	11
60	Occurrence and Potential Health Risks Due to Trihalomethanes and Microplastics in Bottled Water. <i>Environmental Engineering Science</i> , 2022, 39, 523-534.	0.8	11
61	Removal of Pb(II) from aqueous solutions by adsorption onto clayey soil of Indian origin: Equilibrium, kinetic and thermodynamic profile. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1086-1093.	1.2	10
62	Fixed-bed adsorption of Malachite Green onto binary solid mixture of adsorbents: seashells and eggshells. <i>Toxicological and Environmental Chemistry</i> , 2012, 94, 1272-1282.	0.6	10
63	Carbon material produced by hydrothermal carbonisation of food waste as an electrode material for supercapacitor application: A circular economy approach. <i>Waste Management and Research</i> , 2022, 40, 1514-1526.	2.2	8
64	Removal of phenol from aqueous solution by adsorption onto seashells: equilibrium, kinetic and thermodynamic studies. <i>Journal of Water Reuse and Desalination</i> , 2013, 3, 119-127.	1.2	5
65	Fish (<i>Labeo rohita</i>) scales as a new biosorbent for removal of textile dyes from aqueous solutions. <i>Journal of Water Reuse and Desalination</i> , 2012, 2, 175-184.	1.2	4
66	Three-Dimensional Graphene-Based Macroscopic Assemblies as Super-Absorbents for Oils and Organic Solvents. , 2019, , 43-68.		4
67	Biomass-derived microporous adsorbents for selective CO ₂ capture. , 2021, , 661-679.		3
68	Probabilistic approach for health hazard assessment of trihalomethanes through successive showering events. <i>Environmental Science and Pollution Research</i> , 2023, 30, 24793-24803.	2.7	3
69	Graphene-based macromolecular assemblies as high-performance absorbents for oil and chemical spills response and cleanup. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107586.	3.3	3
70	Graphene-Based Macromolecular Assemblies for Scavenging Heavy Metals. <i>ChemistryOpen</i> , 2020, 9, 1065-1073.	0.9	2
71	Scale-up of a dye adsorption process using chemically modified rice husk: optimization using response surface methodology. <i>Desalination and Water Treatment</i> , 2012, , 331-336.	1.0	1
72	Graphene-based Macroassemblies as Highly Efficient and Selective Adsorbents for Postcombustion CO ₂ Capture. <i>Chemistry in the Environment</i> , 2021, , 384-395.	0.2	0