

Monoj Kumar Mondal

List of Publications by Year in descending order

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46
papers

1,668
citations

304743

22
h-index

302126

39
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46
all docs

46
docs citations

46
times ranked

1600
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on progress of heavy metal removal using adsorbents of microbial and plant origin. <i>Environmental Science and Pollution Research</i> , 2015, 22, 15386-15415.	5.3	156
2	Removal of Pb(II) ions from aqueous solution using activated tea waste: Adsorption on a fixed-bed column. <i>Journal of Environmental Management</i> , 2009, 90, 3266-3271.	7.8	146
3	Intrinsic kinetics, thermodynamic parameters and reaction mechanism of non-isothermal degradation of torrefied <i>Acacia nilotica</i> using isoconversional methods. <i>Fuel</i> , 2020, 259, 116263.	6.4	124
4	Comprehensive kinetic and mass transfer modeling for methylene blue dye adsorption onto CuO nanoparticles loaded on nanoporous activated carbon prepared from waste coconut shell. <i>Journal of Molecular Liquids</i> , 2020, 307, 112949.	4.9	99
5	Kinetics and thermodynamic analysis of maize cob pyrolysis for its bioenergy potential using thermogravimetric analyzer. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1431-1441.	3.6	97
6	Torrefaction of woody biomass (<i>Acacia nilotica</i>): Investigation of fuel and flow properties to study its suitability as a good quality solid fuel. <i>Renewable Energy</i> , 2020, 153, 711-724.	8.9	69
7	Mass transfer and related phenomena for Cr(VI) adsorption from aqueous solutions onto <i>Mangifera indica</i> sawdust. <i>Chemical Engineering Journal</i> , 2013, 218, 138-146.	12.7	68
8	Pyrolysis of chemically treated corncob for biochar production and its application in Cr(VI) removal. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 1606-1617.	2.3	67
9	Slow pyrolysis of chemically treated walnut shell for valuable products: Effect of process parameters and in-depth product analysis. <i>Energy</i> , 2019, 181, 665-676.	8.8	65
10	Optimization of process parameters for torrefaction of <i>Acacia nilotica</i> using response surface methodology and characteristics of torrefied biomass as upgraded fuel. <i>Energy</i> , 2019, 186, 115865.	8.8	61
11	Bio-energy generation from sagwan sawdust via pyrolysis: Product distributions, characterizations and optimization using response surface methodology. <i>Energy</i> , 2019, 170, 423-437.	8.8	60
12	Experimental process parameters optimization and in-depth product characterizations for teak sawdust pyrolysis. <i>Waste Management</i> , 2019, 87, 499-511.	7.4	59
13	Thermal degradation characteristics, kinetics, thermodynamic, and reaction mechanism analysis of pistachio shell pyrolysis for its bioenergy potential. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4847-4861.	4.6	49
14	Novel green strategy for CuO@ZnO@C nanocomposites fabrication using marigold (<i>Tagetes spp.</i>) flower petals extract with and without CTAB treatment for adsorption of Cr(VI) and Congo red dye. <i>Journal of Environmental Management</i> , 2021, 290, 112615.	7.8	47
15	Exhaustive studies on toxic Cr(VI) removal mechanism from aqueous solution using activated carbon of <i>Aloe vera</i> waste leaves. <i>Journal of Molecular Liquids</i> , 2020, 307, 112956.	4.9	42
16	Competitive sorption of Cu(II) and Ni(II) ions from aqueous solutions: Kinetics, thermodynamics and desorption studies. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1803-1813.	5.3	41
17	Synthesis, characterization and application of <i>Lagerstroemia speciosa</i> embedded magnetic nanoparticle for Cr(VI) adsorption from aqueous solution. <i>Journal of Environmental Sciences</i> , 2017, 55, 283-293.	6.1	34
18	Hazardous As(III) removal using nanoporous activated carbon of waste garlic stem as adsorbent: Kinetic and mass transfer mechanisms. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1900-1914.	2.7	34

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19	Mechanism of Cr(VI) uptake onto sagwan sawdust derived biochar and statistical optimization via response surface methodology. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 709-725.	4.6	30
20	Development of CTAB modified ternary phase $\text{Fe}_2\text{O}_3\text{-Mn}_2\text{O}_3\text{-Mn}_3\text{O}_4$ nanocomposite as innovative super-adsorbent for Congo red dye adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104827.	6.7	30
21	Characterization and application of biomass gasifier waste material for adsorptive removal of Cr (VI) from aqueous solution. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 95-102.	2.3	26
22	Characterization, isotherm and kinetic study of <i>Phaseolus vulgaris</i> husk as an innovative adsorbent for Cr(VI) removal. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 567-575.	2.7	22
23	Selection of efficient absorbent for CO ₂ capture from gases containing low CO ₂ . <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 231-239.	2.7	20
24	Adsorption potential of biochar obtained from pyrolysis of raw and torrefied <i>Acacia nilotica</i> towards removal of methylene blue dye from synthetic wastewater. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 6083-6104.	4.6	20
25	Experimental investigations of hazardous leather industry dye (Acid Yellow 2GL) removal from simulated wastewater using a promising integrated approach. <i>Chemical Engineering Research and Design</i> , 2021, 155, 444-454.	5.6	17
26	Pretreatment optimisation and kinetics of batch anaerobic digestion of liquidised OFMSW treated with NaOH: Models verification with experimental data. <i>Journal of Environmental Management</i> , 2019, 237, 313-321.	7.8	16
27	Investigation on fuel gas production from pulp and paper waste water impregnated coconut husk in fluidized bed gasifier via humidified air and CO ₂ gasification. <i>Energy</i> , 2019, 178, 522-529.	8.8	14
28	Iso-conversional kinetic and thermodynamic studies of Indian sagwan sawdust pyrolysis for its bioenergy potential. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 13131.	2.3	13
29	Removal of Orange G from aqueous solution by hematite: Isotherm and mass transfer studies. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 1811-1815.	2.7	12
30	Phosphate removal from aqueous solutions by nano-alumina for the effective remediation of eutrophication. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, S77.	2.3	12
31	Fixed bed column adsorption of Cr(VI) from aqueous solution using nanosorbents derived from magnetite impregnated <i>Phaseolus vulgaris</i> husk. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, S68.	2.3	12
32	Biomass gasification. , 2022, , 253-276.		12
33	Equilibrium solubility of CO ₂ in aqueous binary mixture of 2-(diethylamine)ethanol and 1, 6-hexamethyldiamine. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1335-1340.	2.7	10
34	Adsorption of Acid Yellow 2GL dye from simulated water using brinjal waste. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 15965-15978.	4.6	10
35	Thermo-kinetic analysis, thermodynamic parameters and comprehensive pyrolysis index of <i>Melia azedarach</i> sawdust as a genesis of bioenergy. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 1863-1880.	4.6	10
36	Equilibrium Solubility Measurement and Modeling of CO ₂ Absorption in Aqueous Blend of 2-(Diethyl amino) Ethanol and Ethylenediamine. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 523-531.	1.9	9

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37	Extensive analyses of mass transfer, kinetics, and toxicity for hazardous acid yellow 17 dye removal using activated carbon prepared from waste biomass of <i>Solanum melongena</i> . <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 99-117.	4.6	9
38	Removal of acid red-94 from aqueous solution using sugar cane dust: An agro-industry waste. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1386-1392.	2.7	7
39	Adsorption analysis of Zn(II) removal from aqueous solution onto <i>Argemone maxicana</i> biochar. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 4135-4148.	4.6	7
40	Adsorption-Desorption Surface Bindings, Kinetics, and Mass Transfer Behavior of Thermally and Chemically Treated Great Millet Husk towards Cr(VI) Removal from Synthetic Wastewater. <i>Adsorption Science and Technology</i> , 2022, 2022, .	3.2	7
41	Conversion of unripe coconut husk into refined products using humidified air in packed bed gasification column. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 409-421.	4.6	6
42	Study on mass transfer characteristics for Cr (VI) removal by adsorption onto residual black toner ink. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 1022-1029.	2.3	5
43	Fundamentals and mechanistic pathways of dye degradation using photocatalysts. , 2021, , 527-545.		5
44	A fixed bed column study of natural and chemically modified <i>Lagerstroemia speciosa</i> bark for removal of synthetic Cr(VI) ions from aqueous solution. <i>International Journal of Phytoremediation</i> , 2020, 22, 1233-1241.	3.1	4
45	Study on thermal degradation characteristics, kinetics, thermodynamic, and reaction mechanism analysis of <i>Arachis hypogaea</i> shell pyrolysis for its bioenergy potential. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 9289-9304.	4.6	3
46	Pyrolysis. , 2022, , 279-300.		2