

Bc Meikap

List of Publications by Year in descending order

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72
papers

4,658
citations

126907

33
h-index

98798

67
g-index

72
all docs

72
docs citations

72
times ranked

4307
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of lead(II) from wastewater by activated carbon developed from Tamarind wood by zinc chloride activation. <i>Chemical Engineering Journal</i> , 2009, 149, 249-262.	12.7	375
2	Removal of chromium (VI) from dilute aqueous solutions by activated carbon developed from Terminalia arjuna nuts activated with zinc chloride. <i>Chemical Engineering Science</i> , 2005, 60, 3049-3059.	3.8	324
3	Application of response surface methodology (RSM) for optimization of leaching parameters for ash reduction from low-grade coal. <i>International Journal of Mining Science and Technology</i> , 2018, 28, 621-629.	10.3	309
4	Removal of chromium(VI) from wastewater by activated carbon developed from Tamarind wood activated with zinc chloride. <i>Chemical Engineering Journal</i> , 2009, 150, 25-39.	12.7	304
5	Response surface modeling and optimization of chromium(VI) removal from aqueous solution using Tamarind wood activated carbon in batch process. <i>Journal of Hazardous Materials</i> , 2009, 172, 818-825.	12.4	282
6	Optimization of production conditions for activated carbons from Tamarind wood by zinc chloride using response surface methodology. <i>Bioresource Technology</i> , 2010, 101, 1974-1982.	9.6	244
7	Biosorption of Cr(VI) from aqueous solutions by Eichhornia crassipes. <i>Chemical Engineering Journal</i> , 2006, 117, 71-77.	12.7	215
8	Studies on the removal of Pb(II) from wastewater by activated carbon developed from Tamarind wood activated with sulphuric acid. <i>Journal of Hazardous Materials</i> , 2008, 153, 221-228.	12.4	192
9	Optimization of chromium(VI) sorption potential using developed activated carbon from sugarcane bagasse with chemical activation by zinc chloride. <i>Desalination</i> , 2011, 275, 276-284.	8.2	164
10	Column performance of granular activated carbon packed bed for Pb(II) removal. <i>Journal of Hazardous Materials</i> , 2008, 156, 596-603.	12.4	140
11	Improving efficacy of Cr (VI) adsorption process on sustainable adsorbent derived from waste biomass (sugarcane bagasse) with help of ant colony optimization. <i>Industrial Crops and Products</i> , 2020, 143, 111927.	5.2	119
12	Improvement of grinding characteristics of Indian coal by microwave pre-treatment. <i>Fuel Processing Technology</i> , 2011, 92, 1920-1928.	7.2	107
13	A novel acid modified alumina adsorbent with enhanced defluoridation property: Kinetics, isotherm study and applicability on industrial wastewater. <i>Journal of Hazardous Materials</i> , 2019, 365, 868-882.	12.4	106
14	Removal of methylene blue from wastewater using fly ash as an adsorbent by hydrocyclone. <i>Journal of Hazardous Materials</i> , 2008, 158, 531-540.	12.4	101
15	Effective defluoridation of industrial wastewater by using acid modified alumina in fixed-bed adsorption column: Experimental and breakthrough curves analysis. <i>Journal of Cleaner Production</i> , 2021, 279, 123645.	9.3	86
16	Effect of microwave pretreatment of coal for improvement of rheological characteristics of coal-water slurries. <i>Journal of Colloid and Interface Science</i> , 2005, 281, 225-235.	9.4	71
17	Studies on the performance of a hydrocyclone and modeling for flow characterization in presence and absence of air core. <i>Chemical Engineering Science</i> , 2007, 62, 6391-6402.	3.8	67
18	Iron ore grindability improvement by microwave pre-treatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2010, 16, 805-812.	5.8	67

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19	Studies on the understanding mechanism of air core and vortex formation in a hydrocyclone. <i>Chemical Engineering Journal</i> , 2008, 144, 153-166.	12.7	65
20	Performance of a modified multi-stage bubble column reactor for lead(II) and biological oxygen demand removal from wastewater using activated rice husk. <i>Journal of Hazardous Materials</i> , 2009, 161, 317-324.	12.4	65
21	Facile method to synthesize efficient adsorbent from alumina by nitric acid activation: Batch scale defluoridation, kinetics, isotherm studies and implementation on industrial wastewater treatment. <i>Journal of Hazardous Materials</i> , 2020, 381, 120917.	12.4	64
22	Statistical modelling and optimization of hydrolysis of urea to generate ammonia for flue gas conditioning. <i>Journal of Hazardous Materials</i> , 2010, 182, 603-610.	12.4	57
23	In-depth physiochemical characterization and detailed thermo-kinetic study of biomass wastes to analyze its energy potential. <i>Renewable Energy</i> , 2020, 148, 756-771.	8.9	55
24	Modeling of a novel multi-stage bubble column scrubber for flue gas desulfurization. <i>Chemical Engineering Journal</i> , 2002, 86, 331-342.	12.7	54
25	Kinetic studies on hydrolysis of urea in a semi-batch reactor at atmospheric pressure for safe use of ammonia in a power plant for flue gas conditioning. <i>Journal of Hazardous Materials</i> , 2010, 175, 629-637.	12.4	51
26	Pyrolysis of waste lubricating oil/waste motor oil to generate high-grade fuel oil: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111446.	16.4	50
27	A synergistic study of reaction kinetics and heat transfer with multi-component modelling approach for the pyrolysis of biomass waste. <i>Energy</i> , 2020, 204, 117933.	8.8	45
28	Removal of HCl gas from off gases using self-priming venturi scrubber. <i>Journal of Hazardous Materials</i> , 2019, 364, 406-418.	12.4	43
29	Calcium and zirconium modified acid activated alumina for adsorptive removal of fluoride: Performance evaluation, kinetics, isotherm, characterization and industrial wastewater treatment. <i>Advanced Powder Technology</i> , 2020, 31, 2045-2060.	4.1	41
30	Removal of dyes from aqueous solution by sorption with fly ash using a hydrocyclone. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5204-5211.	6.7	40
31	Extensive thermogravimetric and thermo-kinetic study of waste motor oil based on iso-conversional methods. <i>Energy Conversion and Management</i> , 2020, 221, 113194.	9.2	38
32	Chemical demineralization of high ash Indian coal by using alkali and acid solutions. <i>Fuel</i> , 2017, 196, 102-109.	6.4	37
33	Performance characteristics for particles of sand FCC and fly ash in a novel hydrocyclone. <i>Chemical Engineering Science</i> , 2004, 59, 671-684.	3.8	36
34	Performance evaluation of a hydrocyclone with a spiral rib for separation of particles. <i>Advanced Powder Technology</i> , 2017, 28, 3222-3232.	4.1	36
35	Artificial neural network approach for rheological characteristics of coal-water slurry using microwave pre-treatment. <i>International Journal of Mining Science and Technology</i> , 2017, 27, 379-386.	10.3	29
36	Study of particle hydrodynamics and misplacement in liquid-solid fluidized bed separator. <i>Chemical Engineering Research and Design</i> , 2017, 117, 520-532.	5.6	29

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37	Removal of hazardous gaseous pollutants from industrial flue gases by a novel multi-stage fluidized bed desulfurizer. <i>Journal of Hazardous Materials</i> , 2009, 165, 427-434.	12.4	28
38	Design of self priming venturi scrubber for the simultaneous abatement of HCl gas and particulate matter from the flue gas. <i>Chemical Engineering Research and Design</i> , 2019, 150, 311-319.	5.6	28
39	Performance characteristics of the particulate removal in a novel spray-cum-bubble column scrubber. <i>Chemical Engineering Research and Design</i> , 2009, 87, 109-118.	5.6	27
40	Rheological characteristics of coal-water slurry using microwave pretreatment – A statistical approach. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 62-70.	5.8	27
41	Effect of limestone and dolomite flux on the quality of pellets using high LOI iron ore. <i>Powder Technology</i> , 2021, 379, 154-164.	4.2	26
42	A comprehensive insight into devolatilization thermo-kinetics for an agricultural residue: Towards a cleaner and sustainable energy. <i>Journal of Cleaner Production</i> , 2021, 310, 127365.	9.3	25
43	Pelletization of synthesized magnetite concentrate obtained by magnetization roasting of Indian low-grade BHQ iron ore. <i>Powder Technology</i> , 2020, 374, 190-200.	4.2	24
44	Performance characteristics of pilot plant dense media hydrocyclone for beneficiation of coal and 3-D CFD simulation. <i>Chemical Engineering Science</i> , 2010, 65, 4661-4671.	3.8	23
45	Optimization of ammonia production from urea in continuous process using ASPEN Plus and computational fluid dynamics study of the reactor used for hydrolysis process. <i>Journal of Industrial and Engineering Chemistry</i> , 2010, 16, 577-586.	5.8	23
46	Comparison of adsorption capacity of mono-ethanolamine and di-ethanolamine impregnated activated carbon in a multi-staged fluidized bed reactor for carbon-dioxide capture. <i>Fuel</i> , 2018, 224, 47-56.	6.4	23
47	Performance evaluation of venturi scrubber for the removal of iodine in filtered containment venting system. <i>Chemical Engineering Research and Design</i> , 2018, 138, 158-167.	5.6	18
48	Pressure drop characteristics of a multi-stage counter-current fluidized bed reactor for control of gaseous pollutants. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 209-216.	3.6	16
49	Identification and prediction of air core diameter in a hydrocyclone by a novel online sensor based on digital signal processing technique. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010, 49, 165-176.	3.6	16
50	An investigation into the influence of microwave energy on iron ore-water slurry rheology. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 25, 122-130.	5.8	16
51	Optimization of lead (II) sorption potential using developed activated carbon from tamarind wood with chemical activation by zinc chloride. <i>Desalination and Water Treatment</i> , 2016, 57, 2006-2017.	1.0	16
52	Defluoridation characteristics of a novel adsorbent developed from ferroalloy electric arc furnace slag: Batch, column study and treatment of industrial wastewater. <i>Environmental Technology and Innovation</i> , 2020, 18, 100782.	6.1	16
53	Equilibrium studies on hydrolysis of urea in a semi-batch reactor for production of ammonia to reduce hazardous pollutants from flue gases. <i>Journal of Hazardous Materials</i> , 2009, 164, 659-664.	12.4	15
54	Magnetization roasting of waste iron ore beneficiation plant tailings using sawdust biomass; A novel approach to produce metallurgical grade pellets. <i>Journal of Cleaner Production</i> , 2022, 343, 130894.	9.3	14

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55	Identification of stable operating ranges of a counter-current multistage fluidized bed reactor with downcomer. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010, 49, 104-112.	3.6	13
56	Statistical modelling and optimization study for beneficiation of Indian high ash semi-coking coal using allflux separator. <i>Advanced Powder Technology</i> , 2016, 27, 1488-1493.	4.1	13
57	Hydrodynamics of a multi-stage counter-current fluidized bed reactor with down-comer for amine impregnated activated carbon particle system. <i>Advanced Powder Technology</i> , 2017, 28, 854-864.	4.1	13
58	Control of accidental discharge of radioactive materials by filtered containment venting system: A review. <i>Nuclear Engineering and Technology</i> , 2019, 51, 931-942.	2.3	13
59	Analysis of iron ore pellets properties concerning raw material mineralogy for effective utilization of mining waste. <i>Powder Technology</i> , 2022, 400, 117259.	4.2	13
60	Hold-up characteristics of a novel gas-solid multistage fluidized bed reactor for control of hazardous gaseous effluents. <i>Chemical Engineering Journal</i> , 2009, 148, 115-121.	12.7	12
61	Pelletization of hematite and synthesized magnetite concentrate from a banded hematite quartzite ore: A comparison study. <i>Advanced Powder Technology</i> , 2021, 32, 3735-3745.	4.1	12
62	Modeling the operation of a three-stage fluidized bed reactor for removing CO ₂ from flue gases. <i>Journal of Hazardous Materials</i> , 2011, 187, 113-121.	12.4	10
63	In-situ and ex-situ co-pyrolysis studies of waste biomass with spent motor oil: Elucidating the role of physical inhibition and mixing ratio to enhance fuel quality. <i>Bioresource Technology</i> , 2022, 358, 127364.	9.6	10
64	Prediction of economic operating conditions for Indian coal preparation plants. <i>Fuel Processing Technology</i> , 2011, 92, 1696-1700.	7.2	9
65	Application of response surface analysis to iron ore slurry rheology using microwave pre-treatment. <i>South African Journal of Chemical Engineering</i> , 2017, 23, 81-90.	2.4	9
66	Influence of medium particle size on the separation performance of an air dense medium fluidized bed separator for coal cleaning. <i>Journal of the South African Institute of Mining and Metallurgy</i> , 2015, 115, 661-766.	0.5	9
67	Role of vortex finder depth on pressure drop and performance efficiency in a ribbed hydrocyclone. <i>South African Journal of Chemical Engineering</i> , 2018, 25, 103-109.	2.4	8
68	Modelling and simulating CO and CO ₂ methanation over Ru/Al ₂ O ₃ catalyst: An integrated approach from carbon capture to renewable energy generation. <i>Fuel</i> , 2022, 314, 123095.	6.4	7
69	Effect of fin type baffle on the particle hydrodynamics, separation and misplacement in a liquid solid fluidized bed separator. <i>Advanced Powder Technology</i> , 2019, 30, 428-438.	4.1	6
70	Kinetic studies on the potential use of citrus-based green and low-cost demulsifying agents for the oil-in-water emulsions' treatment. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107127.	6.7	6
71	Hydrodynamic study and particulate matter removal in a self priming venturi scrubber. <i>Environmental Technology and Innovation</i> , 2020, 20, 101167.	6.1	4
72	Role of kinematic viscosity on removal of Quinoline Insolubles from coal tar using wash oil and mixed solvent. <i>Separation Science and Technology</i> , 2021, 56, 2061-2073.	2.5	2