Bc Meikap

List of Publications by Year
in descending order

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	Kinetic studies on the potential use of citrus-based green and low-cost demulsifying agents for the oil-in-water emulsions' treatment. Journal of Environmental Chemical Engineering, 2022, 10, 107127.	6.7	6
2	Modelling and simulating CO and CO_2 methanation over Ru/$γ$-Al_2O_3 catalyst: An integrated approach from carbon capture to renewable energy generation. Fuel, 2022, 314, 123095.	6.4	7
3	Analysis of iron ore pellets properties concerning raw material mineralogy for effective utilization of mining waste. Powder Technology, 2022, 400, 117259.	4.2	13
4	Magnetization roasting of waste iron ore beneficiation plant tailings using sawdust biomass; A novel approach to produce metallurgical grade pellets. Journal of Cleaner Production, 2022, 343, 130894.	9.3	14
5	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. Bioresource Technology, 2022, 358, 127364.	9.6	10
6	Effective defluoridation of industrial wastewater by using acid modified alumina in fixed-bed adsorption column: Experimental and breakthrough curves analysis. Journal of Cleaner Production, 2021, 279, 123645.	9.3	86
7	Role of kinematic viscosity on removal of Quinoline Insolubles from coal tar using wash oil and mixed solvent. Separation Science and Technology, 2021, 56, 2061-2073.	2.5	2
8	Effect of limestone and dolomite flux on the quality of pellets using high LOI iron ore. Powder Technology, 2021, 379, 154-164.	4.2	26
9	A comprehensive insight into devolatilization thermo-kinetics for an agricultural residue: Towards a cleaner and sustainable energy. Journal of Cleaner Production, 2021, 310, 127365.	9.3	25
10	Pyrolysis of waste lubricating oil/waste motor oil to generate high-grade fuel oil: A comprehensive review. Renewable and Sustainable Energy Reviews, 2021, 150, 111446.	16.4	50
11	Pelletization of hematite and synthesized magnetite concentrate from a banded hematite quartzite ore: A comparison study. Advanced Powder Technology, 2021, 32, 3735-3745.	4.1	12
12	Facile method to synthesize efficient adsorbent from alumina by nitric acid activation: Batch scale defluoridation, kinetics, isotherm studies and implementation on industrial wastewater treatment. Journal of Hazardous Materials, 2020, 381, 120917.	12.4	64
13	In-depth physiochemical characterization and detailed thermo-kinetic study of biomass wastes to analyze its energy potential. Renewable Energy, 2020, 148, 756-771.	8.9	55
14	Improving efficacy of Cr (VI) adsorption process on sustainable adsorbent derived from waste biomass (sugarcane bagasse) with help of ant colony optimization. Industrial Crops and Products, 2020, 143, 111927.	5.2	119
15	Hydrodynamic study and particulate matter removal in a self priming venturi scrubber. Environmental Technology and Innovation, 2020, 20, 101167.	6.1	4
16	Extensive thermogravimetric and thermo-kinetic study of waste motor oil based on iso-conversional methods. Energy Conversion and Management, 2020, 221, 113194.	9.2	38
17	Calcium and zirconium modified acid activated alumina for adsorptive removal of fluoride: Performance evaluation, kinetics, isotherm, characterization and industrial wastewater treatment. Advanced Powder Technology, 2020, 31, 2045-2060.	4.1	41
18	A synergistic study of reaction kinetics and heat transfer with multi-component modelling approach for the pyrolysis of biomass waste. Energy, 2020, 204, 117933.	8.8	45

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19	Pelletization of synthesized magnetite concentrate obtained by magnetization roasting of Indian low-grade BHQ iron ore. Powder Technology, 2020, 374, 190-200.	4.2	24
20	Defluoridation characteristics of a novel adsorbent developed from ferroalloy electric arc furnace slag: Batch, column study and treatment of industrial wastewater. Environmental Technology and Innovation, 2020, 18, 100782.	6.1	16
21	Design of self priming venturi scrubber for the simultaneous abatement of HCl gas and particulate matter from the flue gas. Chemical Engineering Research and Design, 2019, 150, 311-319.	5.6	28
22	Control of accidental discharge of radioactive materials by filtered containment venting system: A review. Nuclear Engineering and Technology, 2019, 51, 931-942.	2.3	13
23	A novel acid modified alumina adsorbent with enhanced defluoridation property: Kinetics, isotherm study and applicability on industrial wastewater. Journal of Hazardous Materials, 2019, 365, 868-882.	12.4	106
24	Removal of HCl gas from off gases using self-priming venturi scrubber. Journal of Hazardous Materials, 2019, 364, 406-418.	12.4	43
25	Effect of fin type baffle on the particle hydrodynamics, separation and misplacement in a liquid solid fluidized bed separator. Advanced Powder Technology, 2019, 30, 428-438.	4.1	6
26	Comparison of adsorption capacity of mono-ethanolamine and di-ethanolamine impregnated activated carbon in a multi-staged fluidized bed reactor for carbon-dioxide capture. Fuel, 2018, 224, 47-56.	6.4	23
27	Role of vortex finder depth on pressure drop and performance efficiency in a ribbed hydrocyclone. South African Journal of Chemical Engineering, 2018, 25, 103-109.	2.4	8
28	Removal of dyes from aqueous solution by sorption with fly ash using a hydrocyclone. Journal of Environmental Chemical Engineering, 2018, 6, 5204-5211.	6.7	40
29	Performance evaluation of venturi scrubber for the removal of iodine in filtered containment venting system. Chemical Engineering Research and Design, 2018, 138, 158-167.	5.6	18
30	Application of response surface methodology (RSM) for optimization of leaching parameters for ash reduction from low-grade coal. International Journal of Mining Science and Technology, 2018, 28, 621-629.	10.3	309
31	Hydrodynamics of a multi-stage counter-current fluidized bed reactor with down-comer for amine impregnated activated carbon particle system. Advanced Powder Technology, 2017, 28, 854-864.	4.1	13
32	Artificial neural network approach for rheological characteristics of coal-water slurry using microwave pre-treatment. International Journal of Mining Science and Technology, 2017, 27, 379-386.	10.3	29
33	Chemical demineralization of high ash Indian coal by using alkali and acid solutions. Fuel, 2017, 196, 102-109.	6.4	37
34	Application of response surface analysis to iron ore slurry rheology using microwave pre-treatment. South African Journal of Chemical Engineering, 2017, 23, 81-90.	2.4	9
35	Performance evaluation of a hydrocyclone with a spiral rib for separation of particles. Advanced Powder Technology, 2017, 28, 3222-3232.	4.1	36
36	Study of particle hydrodynamics and misplacement in liquid–solid fluidized bed separator. Chemical Engineering Research and Design, 2017, 117, 520-532.	5.6	29

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37	Statistical modelling and optimization study for beneficiation of Indian high ash semi-coking coal using allflux separator. Advanced Powder Technology, 2016, 27, 1488-1493.	4.1	13
38	Optimization of lead (II) sorption potential using developed activated carbon from tamarind wood with chemical activation by zinc chloride. Desalination and Water Treatment, 2016, 57, 2006-2017.	1.0	16
39	An investigation into the influence of microwave energy on iron ore–water slurry rheology. Journal of Industrial and Engineering Chemistry, 2015, 25, 122-130.	5.8	16
40	Influence of medium particle size on the separation performance of an air dense medium fluidized bed separator for coal cleaning. Journal of the South African Institute of Mining and Metallurgy, 2015, 115, 661-766.	0.5	9
41	Optimization of chromium(VI) sorption potential using developed activated carbon from sugarcane bagasse with chemical activation by zinc chloride. Desalination, 2011, 275, 276-284.	8.2	164
42	Prediction of economic operating conditions for Indian coal preparation plants. Fuel Processing Technology, 2011, 92, 1696-1700.	7.2	9
43	Improvement of grinding characteristics of Indian coal by microwave pre-treatment. Fuel Processing Technology, 2011, 92, 1920-1928.	7.2	107
44	Modeling the operation of a three-stage fluidized bed reactor for removing CO_2 from flue gases. Journal of Hazardous Materials, 2011, 187, 113-121.	12.4	10
45	Rheological characteristics of coal–water slurry using microwave pretreatment – A statistical approach. Journal of Industrial and Engineering Chemistry, 2011, 17, 62-70.	5.8	27
46	Performance characteristics of pilot plant dense media hydrocyclone for beneficiation of coal and 3-D CFD simulation. Chemical Engineering Science, 2010, 65, 4661-4671.	3.8	23
47	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. Journal of Hazardous Materials, 2010, 175, 629-637.	12.4	51
48	Statistical modelling and optimization of hydrolysis of urea to generate ammonia for flue gas conditioning. Journal of Hazardous Materials, 2010, 182, 603-610.	12.4	57
49	Optimization of ammonia production from urea in continuous process using ASPEN Plus and computational fluid dynamics study of the reactor used for hydrolysis process. Journal of Industrial and Engineering Chemistry, 2010, 16, 577-586.	5.8	23
50	Iron ore grindability improvement by microwave pre-treatment. Journal of Industrial and Engineering Chemistry, 2010, 16, 805-812.	5.8	67
51	Optimization of production conditions for activated carbons from Tamarind wood by zinc chloride using response surface methodology. Bioresource Technology, 2010, 101, 1974-1982.	9.6	244
52	Identification of stable operating ranges of a counter-current multistage fluidized bed reactor with downcomer. Chemical Engineering and Processing: Process Intensification, 2010, 49, 104-112.	3.6	13
53	Identification and prediction of air core diameter in a hydrocyclone by a novel online sensor based on digital signal processing technique. Chemical Engineering and Processing: Process Intensification, 2010, 49, 165-176.	3.6	16
54	Performance of a modified multi-stage bubble column reactor for lead(II) and biological oxygen demand removal from wastewater using activated rice husk. Journal of Hazardous Materials, 2009, 161, 317-324.	12.4	65

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55	Equilibrium studies on hydrolysis of urea in a semi-batch reactor for production of ammonia to reduce hazardous pollutants from flue gases. Journal of Hazardous Materials, 2009, 164, 659-664.	12.4	15
56	Removal of hazardous gaseous pollutants from industrial flue gases by a novel multi-stage fluidized bed desulfurizer. Journal of Hazardous Materials, 2009, 165, 427-434.	12.4	28
57	Response surface modeling and optimization of chromium(VI) removal from aqueous solution using Tamarind wood activated carbon in batch process. Journal of Hazardous Materials, 2009, 172, 818-825.	12.4	282
58	Hold-up characteristics of a novel gas–solid multistage fluidized bed reactor for control of hazardous gaseous effluents. Chemical Engineering Journal, 2009, 148, 115-121.	12.7	12
59	Removal of lead(II) from wastewater by activated carbon developed from Tamarind wood by zinc chloride activation. Chemical Engineering Journal, 2009, 149, 249-262.	12.7	375
60	Removal of chromium(VI) from wastewater by activated carbon developed from Tamarind wood activated with zinc chloride. Chemical Engineering Journal, 2009, 150, 25-39.	12.7	304
61	Pressure drop characteristics of a multi-stage counter-current fluidized bed reactor for control of gaseous pollutants. Chemical Engineering and Processing: Process Intensification, 2009, 48, 209-216.	3.6	16
62	Performance characteristics of the particulate removal in a novel spray-cum-bubble column scrubber. Chemical Engineering Research and Design, 2009, 87, 109-118.	5.6	27
63	Studies on the removal of Pb(II) from wastewater by activated carbon developed from Tamarind wood activated with sulphuric acid. Journal of Hazardous Materials, 2008, 153, 221-228.	12.4	192
64	Column performance of granular activated carbon packed bed for Pb(II) removal. Journal of Hazardous Materials, 2008, 156, 596-603.	12.4	140
65	Removal of methylene blue from wastewater using fly ash as an adsorbent by hydrocyclone. Journal of Hazardous Materials, 2008, 158, 531-540.	12.4	101
66	Studies on the understanding mechanism of air core and vortex formation in a hydrocyclone. Chemical Engineering Journal, 2008, 144, 153-166.	12.7	65
67	Studies on the performance of a hydrocyclone and modeling for flow characterization in presence and absence of air core. Chemical Engineering Science, 2007, 62, 6391-6402.	3.8	67
68	Biosorption of Cr(VI) from aqueous solutions by Eichhornia crassipes. Chemical Engineering Journal, 2006, 117, 71-77.	12.7	215
69	Effect of microwave pretreatment of coal for improvement of rheological characteristics of coal–water slurries. Journal of Colloid and Interface Science, 2005, 281, 225-235.	9.4	71
70	Removal of chromium (VI) from dilute aqueous solutions by activated carbon developed from Terminalia arjuna nuts activated with zinc chloride. Chemical Engineering Science, 2005, 60, 3049-3059.	3.8	324
71	Performance characteristics for particles of sand FCC and fly ash in a novel hydrocyclone. Chemical Engineering Science, 2004, 59, 671-684.	3.8	36
72	Modeling of a novel multi-stage bubble column scrubber for flue gas desulfurization. Chemical Engineering Journal, 2002, 86, 331-342.	12.7	54