

Saroj Sundar Baral

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,624
citations

361413

20
h-index

289244

40
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45
all docs

45
docs citations

45
times ranked

1854
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on photocatalytic hydrogen production potential from paper and pulp industry wastewater. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 3135-3159.	4.6	0
2	Cleaner production of catalytic thumba methyl ester (Biodiesel) from thumba seed oil (Citrullus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 123021.	6.4	22
3	Process Technology for the Removal of Cr(VI) from Wastewater Using Pig Iron Sludge. <i>Chemical Engineering and Technology</i> , 2022, 45, 543-551.	1.5	4
4	Hydrogen production from water splitting of real-time industry effluent using novel photocatalyst. <i>Advanced Powder Technology</i> , 2022, 33, 103488.	4.1	5
5	Characterization and In Situ Abatement of SO _x , NO _x , and PCDD/Fs in Iron Ore Sinter Machine Wind Legs. <i>Journal of Sustainable Metallurgy</i> , 2022, 8, 742-753.	2.3	4
6	Fundamentals and application of single-atom photocatalyst in sustainable energy and environmental applications. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112693.	16.4	17
7	Selection of suitable adsorbent for the removal of Cr(VI) by using objective based multiple attribute decision making method. <i>Preparative Biochemistry and Biotechnology</i> , 2021, 51, 69-75.	1.9	14
8	Bioleaching of rare earth elements from spent fluid catalytic cracking catalyst using <i>Acidithiobacillus ferrooxidans</i> . <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104848.	6.7	24
9	Highlighting the importance of optimal defect density through band structure and photocatalytic studies. <i>Applied Surface Science</i> , 2021, 536, 147843.	6.1	1
10	Hydrodynamic cavitation for process intensification of biodiesel synthesis- a review. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100144.	5.6	21
11	Rate-Limiting Mechanism in Iron Ore Sintering Process with Waste Gas Recycling. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 713-723.	1.5	3
12	Process intensification of thumba methyl ester (Biodiesel) production using hydrodynamic cavitation. <i>Chemical Engineering Research and Design</i> , 2021, 171, 277-292.	5.6	26
13	Leaching of metals from spent fluid catalytic cracking catalyst using <i>Acidithiobacillus ferrooxidans</i> and comparing its leaching efficiency with organic and inorganic acids. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105522.	6.7	9
14	Thermodynamic and Mineralogical Aspects of Injecting LPG, Coke Oven Gas, and Oxygen into Goethitic Iron Ore Sintering Process. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 136-150.	2.3	9
15	Effect of Defects on Optical, Electronic, and Interface Properties of NiO/SnO ₂ Heterostructures: Dual-Functional Solar Photocatalytic H ₂ Production and RhB Degradation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60002-60017.	8.0	11
16	Biofuel production potential from wastewater in India by integrating anaerobic membrane reactor with algal photobioreactor. <i>Biomass and Bioenergy</i> , 2020, 133, 105445.	5.7	25
17	Defect engineering in photocatalysis: formation, chemistry, optoelectronics, and interface studies. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18560-18604.	10.3	116
18	Steering the Charge Kinetics in Dual-Functional Photocatalysis by Surface Dipole Moments and Band Edge Modulation: A Defect Study in TiO ₂ -ZnS-rGO Composites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11679-11692.	8.0	34

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19	Unravelling the rate controlling step in degradation of phenol on a higher potential photocatalyst. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103938.	6.7	8
20	A comparative study of the extraction of metals from the spent fluid catalytic cracking catalyst using chemical leaching and bioleaching by <i>Aspergillus niger</i> . <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103335.	6.7	28
21	Defect-induced enhanced dissociative adsorption, optoelectronic properties and interfacial contact in Ce doped TiO ₂ : Solar photocatalytic degradation of Rhodamine B. <i>Ceramics International</i> , 2019, 45, 22253-22263.	4.8	29
22	A bio-hydrometallurgical approach towards leaching of lanthanum from the spent fluid catalytic cracking catalyst using <i>Aspergillus niger</i> . <i>Hydrometallurgy</i> , 2019, 184, 175-182.	4.3	39
23	Synergistic effect of dual electron-cocatalyst modified photocatalyst and methodical strategy for better charge separation. <i>Applied Surface Science</i> , 2019, 489, 930-942.	6.1	15
24	Leaching of nickel and vanadium from the spent fluid catalytic cracking catalyst by reconnoitering the potential of <i>Aspergillus niger</i> associating with chemical leaching. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103025.	6.7	21
25	Pretreatment of organic composite waste mixtures for enhanced biomethanation. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 1380-1387.	2.3	2
26	Biosorption of Cr(VI) from wastewater using <i>Sorghastrum Nutans L.</i> . <i>Chemistry and Ecology</i> , 2018, 34, 762-785.	1.6	11
27	Parametric studies of methyl esters synthesis from Thumba seed oil using heterogeneous catalyst under conventional stirring and ultrasonic cavitation. <i>Materials Science for Energy Technologies</i> , 2018, 1, 106-116.	1.8	20
28	Dissolution kinetics of cerium from red mud. <i>Separation Science and Technology</i> , 2017, 52, 883-891.	2.5	4
29	The potential of sustainable algal biofuel production using CO ₂ from thermal power plant in India. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 49, 1061-1074.	16.4	23
30	Modeling and simulation for the adsorptive removal of Cr(VI) from aqueous solution. <i>Desalination and Water Treatment</i> , 2014, 52, 5652-5662.	1.0	3
31	Optimization of leaching parameters for the extraction of rare earth metal using decision making method. <i>Hydrometallurgy</i> , 2014, 143, 60-67.	4.3	11
32	Trend in chemical composition of precipitation during 2005–2009 at a rural station of Bhubaneswar, eastern India. <i>Theoretical and Applied Climatology</i> , 2012, 110, 55-63.	2.8	7
33	Comparative studies of chemical composition of particulate matter between sea and remote location of eastern part of India. <i>Atmospheric Research</i> , 2011, 99, 337-343.	4.1	9
34	Attribute based specification, comparison and selection of feed stock for anaerobic digestion using MADM approach. <i>Journal of Hazardous Materials</i> , 2011, 186, 2009-2016.	12.4	25
35	Biogas generation potential by anaerobic digestion for sustainable energy development in India. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 2086-2094.	16.4	226
36	Removal of Cr(VI) by thermally activated weed <i>Salvinia cucullata</i> in a fixed-bed column. <i>Journal of Hazardous Materials</i> , 2009, 161, 1427-1435.	12.4	234

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37	A preliminary study on the adsorptive removal of Cr(VI) using seaweed, <i>Hydrilla verticillata</i> . <i>Journal of Hazardous Materials</i> , 2009, 171, 358-369.	12.4	82
38	Aerosol physical characteristics at Bhubaneswar, East coast of India. <i>Atmospheric Research</i> , 2009, 93, 897-901.	4.1	25
39	Adsorption of Cr (VI) by treated weed <i>Salvinia cucullata</i> : kinetics and mechanism. <i>Adsorption</i> , 2008, 14, 111-121.	3.0	25
40	Use of Manganic Ferrihydrite to treat As(V) contaminated water. <i>Chemistry and Ecology</i> , 2008, 24, 23-33.	1.6	2
41	Removal of Cr(VI) from aqueous solution using waste weed, <i>Salvinia cucullata</i> . <i>Chemistry and Ecology</i> , 2007, 23, 105-117.	1.6	29
42	Chromium(VI) removal by calcined bauxite. <i>Biochemical Engineering Journal</i> , 2007, 34, 69-75.	3.6	86
43	Hexavalent chromium removal from aqueous solution by adsorption on treated sawdust. <i>Biochemical Engineering Journal</i> , 2006, 31, 216-222.	3.6	311
44	A comparative study of bioelectrochemical systems with established anaerobic/aerobic processes. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	4