B S Giri

List of Publications by Year
in descending order

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74 papers	4,776 citations	117571 34 h-index	98753 67 g-index
75 all docs	75 docs citations	75 times ranked	4926 citing authors

#	Article	IF	Citations
1	Recent advancements in bioremediation of dye: Current status and challenges. Bioresource Technology, 2018, 253, 355-367.	4.8	409
2	Bioreactors for treatment of VOCs and odours â€“ A review. Journal of Environmental Management, 2010, 91, 1039-1054.	3.8	398
3	Commercializing lignocellulosic bioethanol: technology bottlenecks and possible remedies. Biofuels, Bioproducts and Biorefining, 2010, 4, 77-93.	1.9	295
4	Antibiotic resistance in major rivers in the world: A systematic review on occurrence, emergence, and management strategies. Journal of Cleaner Production, 2019, 234, 1484-1505.	4.6	294
5	Prevalence and hazardous impact of pharmaceutical and personal care products and antibiotics in environment: A review on emerging contaminants. Environmental Research, 2021, 194, 110664.	3.7	287
6	Engineered/designer biochar for the removal of phosphate in water and wastewater. Science of the Total Environment, 2018, 616-617, 1242-1260.	3.9	254
7	Potential Utility of Metalâ€“Organic Framework-Based Platform for Sensing Pesticides. ACS Applied Materials & Interfaces, 2018, 10, 8797-8817.	4.0	177
8	Biodegradation of methylene blue dye in a batch and continuous mode using biochar as packing media. Environmental Research, 2019, 171, 356-364.	3.7	163
9	Removal of methylene blue dye using rice husk, cow dung and sludge biochar: Characterization, application, and kinetic studies. Bioresource Technology, 2020, 306, 123202.	4.8	163
10	Evaluation of wet air oxidation as a pretreatment strategy for bioethanol production from rice husk and process optimization. Biomass and Bioenergy, 2009, 33, 1680-1686.	2.9	155
11	Removal of hydrogen sulfide generated during anaerobic treatment of sulfate-laden wastewater using biochar: Evaluation of efficiency and mechanisms. Bioresource Technology, 2017, 234, 115-121.	4.8	126
12	Bioremediation of Congo red dye in immobilized batch and continuous packed bed bioreactor by Brevibacillus parabrevis using coconut shell bio-char. Bioresource Technology, 2018, 252, 37-43.	4.8	119
13	Biofiltration of hydrogen sulfide: Trends and challenges. Journal of Cleaner Production, 2018, 187, 131-147.	4.6	105
14	Performance evaluation of Malathion biodegradation in batch and continuous packed bed bioreactor (PBBR). Bioresource Technology, 2017, 227, 56-65.	4.8	91
15	A novel comparative study of modified carriers in moving bed biofilm reactor for the treatment of wastewater: Process optimization and kinetic study. Bioresource Technology, 2019, 281, 335-342.	4.8	87
16	Biodegradation of Congo red dye in a moving bed biofilm reactor: Performance evaluation and kinetic modeling. Bioresource Technology, 2020, 302, 122811.	4.8	81
17	Recent advancement in remediation of synthetic organic antibiotics from environmental matrices: Challenges and perspective. Bioresource Technology, 2021, 319, 124161.	4.8	81
18	Resource recovery and biorefinery potential of apple orchard waste in the circular bioeconomy. Bioresource Technology, 2021, 321, 124496.	4.8	76

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19	Biodegradation and kinetic study of benzene in bioreactor packed with PUF and alginate beads and immobilized with Bacillus sp. M3. Bioresource Technology, 2017, 242, 92-100.	4.8	72
20	Hydrothermal liquefaction of rice husk and cow dung in Mixed-Bed-Rotating Pyrolyzer and application of biochar for dye removal. Bioresource Technology, 2020, 309, 123294.	4.8	66
21	Biochar for remediation of agrochemicals and synthetic organic dyes from environmental samples: A review. Chemosphere, 2021, 272, 129917.	4.2	57
22	Application of Arjuna (Terminalia arjuna) seed biochar in hybrid treatment system for the bioremediation of Congo red dye. Bioresource Technology, 2020, 307, 123203.	4.8	56
23	Biodiesel production from hybrid non-edible oil using bio-support beads immobilized with lipase from Pseudomonas cepacia. Fuel, 2019, 255, 115801.	3.4	55
24	Collective removal of phenol and ammonia in a moving bed biofilm reactor using modified bio-carriers: Process optimization and kinetic study. Bioresource Technology, 2020, 306, 123177.	4.8	52
25	Review of biotreatment techniques for volatile sulfur compounds with an emphasis on dimethyl sulfide. Process Biochemistry, 2014, 49, 1543-1554.	1.8	51
26	Adsorption of hexavalent chromium from aqueous solution by activated carbon prepared from almond shell: kinetics, equilibrium and thermodynamics study. Journal of Water Supply: Research and Technology - AQUA, 2018, 67, 724-737.	0.6	49
27	Biofiltration of xylene using wood charcoal as the biofilter media under transient and high loading conditions. Bioresource Technology, 2017, 242, 351-358.	4.8	47
28	Treatment of waste gas containing low concentration of dimethyl sulphide (DMS) in a bench-scale biofilter. Bioresource Technology, 2010, 101, 2185-2190.	4.8	46
29	Role and significance of lytic polysaccharide monooxygenases (LPMOs) in lignocellulose deconstruction. Bioresource Technology, 2021, 335, 125261.	4.8	44
30	Preparation and characterization of novel hybrid bio-support material immobilized from Pseudomonas cepacia lipase and its application to enhance biodiesel production. Renewable Energy, 2020, 147, 11-24.	4.3	43
31	Performance of a biofilter with compost and activated carbon based packing material for gas-phase toluene removal under extremely high loading rates. Bioresource Technology, 2019, 285, 121317.	4.8	42
32	Lignocellulosic biomass-based engineered biochar composites: A facile strategy for abatement of emerging pollutants and utilization in industrial applications. Renewable and Sustainable Energy Reviews, 2021, 152, 111643.	8.2	41
33	Removal of Patent Blue (V) Dye Using Indian Bael Shell Biochar: Characterization, Application and Kinetic Studies. Sustainability, 2018, 10, 2669.	1.6	38
34	Highly efficient bio-adsorption of Malachite green using Chinese Fan-Palm Biochar (Livistona) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	4.2	37
35	Bio-filters for the Treatment of VOCs and Odors - A Review. Asian Journal of Atmospheric Environment, 2017, 11, 139-152.	0.4	37
36	Reusability of brilliant green dye contaminated wastewater using corncob biochar and Brevibacillus parabrevis: hybrid treatment and kinetic studies. Bioengineered, 2020, 11, 743-758.	1.4	34

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37	The molecular mechanism of vernalization in Arabidopsis and cereals: role of Flowering Locus C and its homologs. Physiologia Plantarum, 2020, 170, 373-383.	2.6	34
38	Optimization of biodiesel synthesis from nonedible oil using immobilized bio-support catalysts in jacketed packed bed bioreactor by response surface methodology. Journal of Cleaner Production, 2020, 244, 118700.	4.6	31
39	Temperature control of fermentation bioreactor for ethanol production using IMC-PID controller. Biotechnology Reports (Amsterdam, Netherlands), 2019, 22, e00319.	2.1	30
40	Advances in the development of electrode materials for improving the reactor kinetics in microbial fuel cells. Chemosphere, 2022, 290, 133184.	4.2	30
41	Optimization of pretreatment conditions using full factorial design and enzymatic convertibility of shea tree sawdust. Biomass and Bioenergy, 2013, 48, 130-138.	2.9	28
42	Biological treatment of gaseous emissions containing dimethyl sulphide generated from pulp and paper industry. Bioresource Technology, 2013, 142, 420-427.	4.8	28
43	Silk nanodisc based edible chitosan nanocomposite coating for fresh produces: A candidate with superior thermal, hydrophobic, optical, mechanical and food properties. Food Chemistry, 2021, 360, 130048.	4.2	28
44	Adsorptive and photocatalytic properties of metal oxides towards arsenic remediation from water: A review. Journal of Environmental Chemical Engineering, 2021, 9, 106376.	3.3	28
45	Bio-composite of Fe-sludge biochar immobilized with Bacillus Sp. in packed column for bio-adsorption of Methylene blue in a hybrid treatment system: Isotherm and kinetic evaluation. Environmental Technology and Innovation, 2021, 23, 101734.	3.0	21
46	Construction of biotreatment platforms for aromatic hydrocarbons and their future perspectives. Journal of Hazardous Materials, 2021, 416, 125968.	6.5	20
47	Unravelling the Role of Rhizospheric Plant-Microbe Synergy in Phytoremediation: A Genomic Perspective. Current Genomics, 2020, 21, 334-342.	0.7	20
48	Biodegradation of fluorene by neoteric LDPE immobilized Pseudomonas pseudoalcaligenes NRSS3 in a packed bed bioreactor and analysis of external mass transfer correlation. Process Biochemistry, 2019, 77, 106-112.	1.8	19
49	Studies on optimization of naphthalene biodegradation using surface response methodology: Kinetic study and performance evaluation of a pilot scale integrated aerobic treatment plant. Chemical Engineering Research and Design, 2019, 132, 240-248.	2.7	18
50	Progress in bioremediation of pesticide residues in the environment. Environmental Engineering Research, 2021, 26, 200446-0.	1.5	17
51	Construction of integrated system for the treatment of Acid orange 7 dye from wastewater: Optimization and growth kinetic study. Bioresource Technology, 2021, 337, 125478.	4.8	16
52	Evaluation of seasonal variation and the optimization of reducing sugar extraction from Ulva prolifera biomass using thermochemical method. Environmental Science and Pollution Research, 2021, 28, 58857-58871.	2.7	15
53	Anaerobic Bioreactors/Digesters. , 2017, , 261-279.		14
54	Characterization and compositional analysis of highly acidic karanja oil and its potential feedstock for enzymatic synthesis of biodiesel. New Journal of Chemistry, 2018, 42, 15593-15602.	1.4	14

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55	Kinetics and biofiltration of dimethyl sulfide emitted from P&P industry. Biochemical Engineering Journal, 2015, 102, 108-114.	1.8	13
56	An analytical hierarchy process based decision support system for the selection of biogas up-gradation technologies. Chemosphere, 2022, 302, 134741.	4.2	13
57	Adsorption of Patent Blue V from Textile Industry Wastewater Using Sterculia alata Fruit Shell Biochar: Evaluation of Efficiency and Mechanisms. Water (Switzerland), 2020, 12, 2017.	1.2	12
58	Performance evaluation of a continuous packed bed bioreactor: Bio-kinetics and external mass transfer study. Ecotoxicology and Environmental Safety, 2020, 201, 110860.	2.9	12
59	Batch and continuous reactor studies for the adsorption of As(III) from wastewater using a hybrid biochar loaded with transition metal oxides: Kinetics and mass transfer analysis. Environmental Engineering Research, 2021, 26, 200438-0.	1.5	12
60	Removal of aqueous benzene in the immobilized batch and continuous packed bed bioreactor by isolated Bacillus sp. M1. Resource-efficient Technologies, 2016, 2, S87-S95.	0.1	11
61	Isolation and Characterization of Dimethyl Sulfide (DMS)-Degrading Bacteria from Soil and Biofilter Treating Waste Gas Containing DMS from the Laboratory and Pulp and Paper Industry. Applied Biochemistry and Biotechnology, 2012, 167, 1744-1752.	1.4	9
62	Uncovering the phytochemicals of root exudates and extracts of lead (Pb) tolerant Chrysopogon zizanioides (L.) Roberty in response to lead contamination and their effect on the chemotactic behavior of rhizospheric bacteria. Environmental Science and Pollution Research, 2022, 29, 44998-45012.	2.7	9
63	Analysis of natural wax from Nelumbo nucifera leaves by using polar and non-polar organic solvents. Process Biochemistry, 2021, 106, 96-102.	1.8	8
64	Sustainable rural waste management using biogas technology: An analytical hierarchy process decision framework. Chemosphere, 2022, 301, 134737.	4.2	7
65	Sequestration of simulated carbon dioxide (CO2) using churning cementations waste and fly-ash in a thermo-stable batch reactor (TSBR). Environmental Science and Pollution Research, 2020, 27, 27470-27479.	2.7	6
66	Microbial biofilm: An advanced eco-friendly approach for bioremediation. , 2020, , 205-219.		6
67	A study of external mass transfer effect on biodegradation of phenol using lowâ€density polyethylene immobilized Bacillus flexus GS1 IIT (BHU) in a packed bed bioreactor. Water and Environment Journal, 2021, 35, 285-294.	1.0	5
68	Catalytic ozonation of ethyl benzene using modified pumice with magnesium nitrate from polluted air. International Journal of Environmental Studies, 2017, 74, 486-499.	0.7	4
69	An analysis on generic barriers to bioenergy technologies adoption in context of rural India. Bioresource Technology Reports, 2021, 14, 100671.	1.5	3
70	EFFICIENT REMOVAL OF METHYLENE BLUE FROM AQUEOUS SOLUTION BY ALMOND SHELL ACTIVATED CARBON: KINETICS AND EQUILIBRIUM STUDY. Rasayan Journal of Chemistry, 2020, 13, 979-990.	0.2	2
71	Water budgets for freshwater fish ponds of Andhra Pradesh, Orissa and West Bengal, India. Water Science and Technology: Water Supply, 2017, 17, 835-841.	1.0	1
72	The Potential Application of Biochars for Dyes with an Emphasis on Azo Dyes: Analysis Through an Experimental Case Study Utilizing Fruit-Derived Biochar for the Abatement of Congo Red as the Model Pollutant. , 2020, , 53-76.		1

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73	Biodegradation of Hexavalent Chromium by Acclimatized Pseudomonas Putida: Optimization and Kinetic Study. , 0, 7, 1-4.		1
74	Role of Antioxidant in Plant- and Microbe-Based Remediation of Metal Stress. , 2021, , 181-197.		0