B S Giri

List of Publications by Citations

72 papers	2,939 citations	27 h-index	53 g-index
75 ext. papers	3,809 ext. citations	7.5 avg, IF	5.88 L-index

#	Paper	IF	Citations
72	Bioreactors for treatment of VOCs and odours - a review. *Journal of Environmental Management*, **2010**, 91, 1039-54	7.9	331
71	Recent advancements in bioremediation of dye: Current status and challenges. *Bioresource Technology*, **2018**, 253, 355-367	11	287
70	Commercializing lignocellulosic bioethanol: technology bottlenecks and possible remedies. *Biofuels, Bioproducts and Biorefining*, **2010**, 4, 77-93	5.3	243
69	Engineered/designer biochar for the removal of phosphate in water and wastewater. *Science of the Total Environment*, **2018**, 616-617, 1242-1260	10.2	185
68	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	10.3	139
67	Potential Utility of Metal-Organic Framework-Based Platform for Sensing Pesticides. *ACS Applied Materials & Interfaces*, **2018**, 10, 8797-8817	9.5	135
66	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	5.3	131
65	Biodegradation of methylene blue dye in a batch and continuous mode using biochar as packing media. *Environmental Research*, **2019**, 171, 356-364	7.9	99
64	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	11	84
63	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	11	82
62	Removal of methylene blue dye using rice husk, cow dung and sludge biochar: Characterization, application, and kinetic studies. *Bioresource Technology*, **2020**, 306, 123202	11	79
61	Biofiltration of hydrogen sulfide: Trends and challenges. *Journal of Cleaner Production*, **2018**, 187, 131-147	10.3	75
60	Prevalence and hazardous impact of pharmaceutical and personal care products and antibiotics in environment: A review on emerging contaminants. *Environmental Research*, **2021**, 194, 110664	7.9	73
59	Performance evaluation of Malathion biodegradation in batch and continuous packed bed bioreactor (PBBR). *Bioresource Technology*, **2017**, 227, 56-65	11	60
58	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	11	60
57	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	11	49
56	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	11	45

55	Biodegradation of Congo red dye in a moving bed biofilm reactor: Performance evaluation and kinetic modeling. *Bioresource Technology*, **2020**, 302, 122811	11	44
54	Review of biotreatment techniques for volatile sulfur compounds with an emphasis on dimethyl sulfide. *Process Biochemistry*, **2014**, 49, 1543-1554	4.8	42
53	Treatment of waste gas containing low concentration of dimethyl sulphide (DMS) in a bench-scale biofilter. *Bioresource Technology*, **2010**, 101, 2185-90	11	39
52	Resource recovery and biorefinery potential of apple orchard waste in the circular bioeconomy. *Bioresource Technology*, **2021**, 321, 124496	11	39
51	Biofiltration of xylene using wood charcoal as the biofilter media under transient and high loading conditions. *Bioresource Technology*, **2017**, 242, 351-358	11	36
50	Application of Arjuna (Terminalia arjuna) seed biochar in hybrid treatment system for the bioremediation of Congo red dye. *Bioresource Technology*, **2020**, 307, 123203	11	36
49	Biodiesel production from hybrid non-edible oil using bio-support beads immobilized with lipase from Pseudomonas cepacia. *Fuel*, **2019**, 255, 115801	7.1	32
48	Adsorption of hexavalent chromium from aqueous solution by activated carbon prepared from almond shell: kinetics, equilibrium and thermodynamics study **2018**, 67, 724-737		31
47	Removal of Patent Blue (V) Dye Using Indian Bael Shell Biochar: Characterization, Application and Kinetic Studies. *Sustainability*, **2018**, 10, 2669	3.6	29
46	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	11	27
45	Bio-filters for the Treatment of VOCs and Odors - A Review. *Asian Journal of Atmospheric Environment*, **2017**, 11, 139-152	1.3	27
44	Biological treatment of gaseous emissions containing dimethyl sulphide generated from pulp and paper industry. *Bioresource Technology*, **2013**, 142, 420-7	11	26
43	Recent advancement in remediation of synthetic organic antibiotics from environmental matrices: Challenges and perspective. *Bioresource Technology*, **2021**, 319, 124161	11	26
42	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	11	24
41	Optimization of pretreatment conditions using full factorial design and enzymatic convertibility of shea tree sawdust. *Biomass and Bioenergy*, **2013**, 48, 130-138	5.3	24
40	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	8.1	22
39	Role and significance of lytic polysaccharide monooxygenases (LPMOs) in lignocellulose deconstruction. *Bioresource Technology*, **2021**, 335, 125261	11	22
38	Biochar for remediation of agrochemicals and synthetic organic dyes from environmental samples: A review.. *Chemosphere*, **2021**, 272, 129917	8.4	19

37	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	10.3	18
36	Temperature control of fermentation bioreactor for ethanol production using IMC-PID controller. *Biotechnology Reports (Amsterdam, Netherlands)*, **2019**, 22, e00319	5.3	16
35	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	4.8	15
34	Reusability of brilliant green dye contaminated wastewater using corncob biochar and : hybrid treatment and kinetic studies. *Bioengineered*, **2020**, 11, 743-758	5.7	14
33	Kinetics and biofiltration of dimethyl sulfide emitted from P&P industry. *Biochemical Engineering Journal*, **2015**, 102, 108-114	4.2	13
32	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	5.5	13
31	Unravelling the Role of Rhizospheric Plant-Microbe Synergy in Phytoremediation: A Genomic Perspective. *Current Genomics*, **2020**, 21, 334-342	2.6	11
30	Anaerobic Bioreactors/Digesters **2017**, 261-279		10
29	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	16.2	10
28	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	3.6	9
27	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, 1744-52	3.2	9
26	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	2	9
25	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	7	9
24	Performance evaluation of a continuous packed bed bioreactor: Bio-kinetics and external mass transfer study. *Ecotoxicology and Environmental Safety*, **2020**, 201, 110860	7	8
23	Construction of biotreatment platforms for aromatic hydrocarbons and their future perspectives. *Journal of Hazardous Materials*, **2021**, 416, 125968	12.8	8
22	Construction of integrated system for the treatment of Acid orange 7 dye from wastewater: Optimization and growth kinetic study. *Bioresource Technology*, **2021**, 337, 125478	11	7
21	Highly efficient bio-adsorption of Malachite green using Chinese Fan-Palm Biochar (Livistona chinensis). *Chemosphere*, **2022**, 287, 132282	8.4	7
20	The molecular mechanism of vernalization in Arabidopsis and cereals: role of Flowering Locus C and its homologs. *Physiologia Plantarum*, **2020**, 170, 373-383	4.6	6

19	Adsorptive and photocatalytic properties of metal oxides towards arsenic remediation from water: A review. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106376	6.8	6
18	Progress in bioremediation of pesticide residues in the environment. *Environmental Engineering Research*, **2021**, 26, 200446-0	3.6	5
17	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	3	5
16	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	5.1	5
15	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	8.5	5
14	Catalytic ozonation of ethyl benzene using modified pumice with magnesium nitrate from polluted air. *International Journal of Environmental Studies*, **2017**, 74, 486-499	1.8	3
13	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	3.6	3
12	Sequestration of simulated carbon dioxide (CO) using churning cementations waste and fly-ash in a thermo-stable batch reactor (TSBR). *Environmental Science and Pollution Research*, **2020**, 27, 27470-27479	5.1	3
11	Microbial biofilm: An advanced eco-friendly approach for bioremediation **2020**, 205-219		2
10	Advances in the development of electrodes material for improving reactor kinetics in Microbial Fuel Cells. *Chemosphere*, **2021**, 290, 133184	8.4	2
9	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
8	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**, 1	5.1	1
7	A study of external mass transfer effect on biodegradation of phenol using low-density polyethylene immobilized Bacillus flexus GS1 IIT (BHU) in a packed bed bioreactor. *Water and Environment Journal*, **2021**, 35, 285-294	1.7	1
6	An analytical hierarchy process based decision support system for the selection of biogas up-gradation technologies.. *Chemosphere*, **2022**, 302, 134741	8.4	1
5	Water budgets for freshwater fish ponds of Andhra Pradesh, Orissa and West Bengal, India. *Water Science and Technology: Water Supply*, **2017**, 17, 835-841	1.4	0
4	An analysis on generic barriers to bioenergy technologies adoption in context of rural India. *Bioresource Technology Reports*, **2021**, 14, 100671	4.1	0
3	Analysis of natural wax from Nelumbo nucifera leaves by using polar and non-polar organic solvents. *Process Biochemistry*, **2021**, 106, 96-102	4.8	0
2	Sustainable rural waste management using biogas technology: An analytical hierarchy process decision framework.. *Chemosphere*, **2022**, 134737	8.4	0

1 Role of Antioxidant in Plant- and Microbe-Based Remediation of Metal Stress **2021**, 181-197