

R S Singh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

2,637
citations

29
h-index

48
g-index

100
ext. papers

3,220
ext. citations

6.8
avg, IF

5.64
L-index

#	Paper	IF	Citations
97	Moving bed biofilm reactor- (MBBR-) based advanced wastewater treatment technology for the removal of emerging contaminants 2022 , 349-370		2
96	Highly efficient bio-adsorption of Malachite green using Chinese Fan-Palm Biochar (<i>Livistona chinensis</i>). <i>Chemosphere</i> , 2022 , 287, 132282	8.4	7
95	Effect of mixing intensity on biodegradation of phenol in a moving bed biofilm reactor: Process optimization and external mass transfer study.. <i>Bioresource Technology</i> , 2022 , 126921	11	1
94	Biodegradation of Congo red dye using polyurethane foam-based biocarrier combined with activated carbon and sodium alginate: Batch and continuous study.. <i>Bioresource Technology</i> , 2022 , 351, 126999	11	2
93	New approach for biodegradation of Malathion pesticide by <i>Bacillus</i> sp. isolated from agricultural field: Bioreactor and Kinetics. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 107936	6.8	0
92	Progress in bioremediation of pesticide residues in the environment. <i>Environmental Engineering Research</i> , 2021 , 26, 200446-0	3.6	5
91	A comparative study on the performance of microbial fuel cell for the treatment of reactive orange 16 dye using mixed and pure bacterial species and its optimization using response surface methodology. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 48, 101667	4.7	1
90	Biodegradation of reactive red 120 in microbial fuel cell by <i>Staphylococcus equorum</i> RAP2: Statistical modelling and process optimization. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101913	6.7	5
89	Biochar for remediation of agrochemicals and synthetic organic dyes from environmental samples: A review.. <i>Chemosphere</i> , 2021 , 272, 129917	8.4	19
88	A study of external mass transfer effect on biodegradation of phenol using low-density polyethylene immobilized <i>Bacillus flexus</i> GS1 IIT (BHU) in a packed bed bioreactor. <i>Water and Environment Journal</i> , 2021 , 35, 285-294	1.7	1
87	Insights into size-segregated particulate chemistry and sources in urban environment over central Indo-Gangetic Plain. <i>Chemosphere</i> , 2021 , 263, 128030	8.4	11
86	Association of aerosols, trace gases and black carbon with mortality in an urban pollution hotspot over central Indo-Gangetic Plain. <i>Atmospheric Environment</i> , 2021 , 246, 118088	5.3	13
85	Removal of 4-Chlorophenol by <i>Bacillus flexus</i> as free and immobilized system: Effect of process variables and kinetic study. <i>Environmental Technology and Innovation</i> , 2021 , 21, 101356	7	9
84	Removal of Acid Orange 7 dye in a packed bed bioreactor: Process optimization using response surface methodology and kinetic study. <i>Bioresource Technology Reports</i> , 2021 , 13, 100620	4.1	4
83	Moving bed biofilm reactor with immobilized low-density polyethylene/polypropylene for Congo red dye removal. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101558	7	9
82	Comparative toxicity assessment using plant and luminescent bacterial assays after anaerobic treatments of dyeing wastewater in a recirculating fixed bed bioreactor. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105466	6.8	5
81	Construction of biotreatment platforms for aromatic hydrocarbons and their future perspectives. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125968	12.8	8

80	Bioremediation of Congo red in an anaerobic moving bed bioreactor: Process optimization and kinetic modeling. <i>Bioresource Technology Reports</i> , 2021 , 16, 100843	4.1	1
79	Construction of integrated system for the treatment of Acid orange 7 dye from wastewater: Optimization and growth kinetic study. <i>Bioresource Technology</i> , 2021 , 337, 125478	11	7
78	A comparative study of 4-chlorophenol biodegradation in a packed bed and moving bed bioreactor: Performance evaluation and toxicity analysis. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101820	7	5
77	Performance evaluation of a continuous packed bed bioreactor: Bio-kinetics and external mass transfer study. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 201, 110860	7	8
76	Application of Arjuna (<i>Terminalia arjuna</i>) seed biochar in hybrid treatment system for the bioremediation of Congo red dye. <i>Bioresource Technology</i> , 2020 , 307, 123203	11	36
75	Collective removal of phenol and ammonia in a moving bed biofilm reactor using modified bio-carriers: Process optimization and kinetic study. <i>Bioresource Technology</i> , 2020 , 306, 123177	11	24
74	Reusability of brilliant green dye contaminated wastewater using corncob biochar and : hybrid treatment and kinetic studies. <i>Bioengineered</i> , 2020 , 11, 743-758	5.7	14
73	Biodegradation of Congo red dye in a moving bed biofilm reactor: Performance evaluation and kinetic modeling. <i>Bioresource Technology</i> , 2020 , 302, 122811	11	44
72	Performance enhancement of IMC-PID controller design for stable and unstable second-order time delay processes. <i>Journal of Central South University</i> , 2020 , 27, 88-100	2.1	3
71	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
70	Biodegradation of Reactive Orange 16 Dye in Microbial Fuel Cell: An Innovative Way to Minimize Waste Along with Electricity Production. <i>Applied Biochemistry and Biotechnology</i> , 2020 , 192, 196-210	3.2	6
69	Source apportionment and health risk assessment of airborne particulates over central Indo-Gangetic Plain. <i>Chemosphere</i> , 2020 , 257, 127145	8.4	19
68	Sequestration of simulated carbon dioxide (CO) using churning cementations waste and fly-ash in a thermo-stable batch reactor (TSBR). <i>Environmental Science and Pollution Research</i> , 2020 , 27, 27470-27479	5.1	3
67	Adsorption of Patent Blue V from Textile Industry Wastewater Using Sterculia alata Fruit Shell Biochar: Evaluation of Efficiency and Mechanisms. <i>Water (Switzerland)</i> , 2020 , 12, 2017	3	5
66	Emission characteristics of ultrafine particles from bare and ALO coated graphite for high temperature applications. <i>Scientific Reports</i> , 2020 , 10, 14595	4.9	
65	Removal of Reactive Orange 16 by adsorption onto activated carbon prepared from rice husk ash: statistical modelling and adsorption kinetics. <i>Separation Science and Technology</i> , 2020 , 55, 26-34	2.5	15
64	Biodegradation of methylene blue dye in a batch and continuous mode using biochar as packing media. <i>Environmental Research</i> , 2019 , 171, 356-364	7.9	99
63	Physico-chemical characteristics of graphite aerosols generated during postulated air ingress accident. <i>Annals of Nuclear Energy</i> , 2019 , 132, 100-107	1.7	2

62	Temperature control of fermentation bioreactor for ethanol production using IMC-PID controller. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019 , 22, e00319	5.3	16
61	Performance of a biofilter with compost and activated carbon based packing material for gas-phase toluene removal under extremely high loading rates. <i>Bioresource Technology</i> , 2019 , 285, 121317	11	27
60	Flow visualization in dilute oxide based nanofluid boiling. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 331-344	4.9	20
59	A novel comparative study of modified carriers in moving bed biofilm reactor for the treatment of wastewater: Process optimization and kinetic study. <i>Bioresource Technology</i> , 2019 , 281, 335-342	11	60
58	Studies on optimization of naphthalene biodegradation using surface response methodology: Kinetic study and performance evaluation of a pilot scale integrated aerobic treatment plant. <i>Chemical Engineering Research and Design</i> , 2019 , 132, 240-248	5.5	13
57	Biodegradation of fluorene by neoteric LDPE immobilized <i>Pseudomonas pseudoalcaligenes</i> NRSS3 in a packed bed bioreactor and analysis of external mass transfer correlation. <i>Process Biochemistry</i> , 2019 , 77, 106-112	4.8	15
56	Bioremediation of Congo red dye in immobilized batch and continuous packed bed bioreactor by <i>Brevibacillus parabrevis</i> using coconut shell bio-char. <i>Bioresource Technology</i> , 2018 , 252, 37-43	11	84
55	Recent advancements in bioremediation of dye: Current status and challenges. <i>Bioresource Technology</i> , 2018 , 253, 355-367	11	287
54	Biofiltration of hydrogen sulfide: Trends and challenges. <i>Journal of Cleaner Production</i> , 2018 , 187, 131-147.3	7.3	75
53	Biodegradation of wastewater in alternating aerobic-anoxic lab scale pilot plant by <i>Alcaligenes</i> sp. S isolated from agricultural field. <i>Journal of Environmental Management</i> , 2018 , 214, 408-415	7.9	18
52	Engineered/designer biochar for the removal of phosphate in water and wastewater. <i>Science of the Total Environment</i> , 2018 , 616-617, 1242-1260	10.2	185
51	Removal of Patent Blue (V) Dye Using Indian Bael Shell Biochar: Characterization, Application and Kinetic Studies. <i>Sustainability</i> , 2018 , 10, 2669	3.6	29
50	Novel study on biodegradation of malathion and investigation of mass transfer correlation using alginate beads immobilized <i>Bacillus</i> sp. S4 in bioreactor. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 3444-3450	6.8	15
49	Seasonal variations in response of periphytic algal community to nutrient enrichment in the river Ganga (Varanasi, India). <i>Annales De Limnologie</i> , 2018 , 54, 32	0.7	5
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	Optimization of Supercritical Extraction of Coriander (<i>Coriandrum sativum</i> L.) Seed and Characterization of Essential Ingredients. <i>Journal of Essential Oil-bearing Plants: JEOP</i> , 2018 , 21, 330-344 ¹⁻⁷		3
46	Novel investigation of the performance of continuous packed bed bioreactor (CPBBR) by isolated <i>Bacillus</i> sp. M4 and proteomic study. <i>Bioresource Technology</i> , 2018 , 266, 335-342	11	9
45	Biofiltration of xylene using wood charcoal as the biofilter media under transient and high loading conditions. <i>Bioresource Technology</i> , 2017 , 242, 351-358	11	36

44	A comparative study of a bio fuel cell with two different proton exchange membrane for the production of electricity from waste water. <i>Resource-efficient Technologies</i> , 2017 , 3, 78-81	2	9
43	Organic aerosols over Indo-Gangetic Plain: Sources, distributions and climatic implications. <i>Atmospheric Environment</i> , 2017 , 157, 59-74	5.3	52
42	Biodegradation and kinetic study of benzene in bioreactor packed with PUF and alginate beads and immobilized with Bacillus sp. M3. <i>Bioresource Technology</i> , 2017 , 242, 92-100	11	49
41	Removal of hydrogen sulfide generated during anaerobic treatment of sulfate-laden wastewater using biochar: Evaluation of efficiency and mechanisms. <i>Bioresource Technology</i> , 2017 , 234, 115-121	11	82
40	Assessment of pesticides removal using two-stage Integrated Aerobic Treatment Plant (IATP) by Bacillus sp. isolated from agricultural field. <i>Bioresource Technology</i> , 2017 , 242, 45-54	11	26
39	Performance evaluation of Malathion biodegradation in batch and continuous packed bed bioreactor (PBBR). <i>Bioresource Technology</i> , 2017 , 227, 56-65	11	60
38	Delay in DNB for flow boiling of diluted oxide based nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2017 , 89, 211-218	3	11
37	Impact of drought and normal monsoon scenarios on aerosol induced radiative forcing and atmospheric heating in Varanasi over middle Indo-Gangetic Plain. <i>Journal of Aerosol Science</i> , 2017 , 113, 95-107	4.3	21
36	Source model estimation of the 2005 Kyushu Earthquake, Japan using Modified Semi Empirical Technique. <i>Journal of Asian Earth Sciences</i> , 2017 , 147, 240-253	2.8	8
35	Wintertime characteristics of aerosols over middle Indo-Gangetic Plain: Vertical profile, transport and radiative forcing. <i>Atmospheric Research</i> , 2017 , 183, 268-282	5.4	57
34	Bio-filters for the Treatment of VOCs and Odors - A Review. <i>Asian Journal of Atmospheric Environment</i> , 2017 , 11, 139-152	1.3	27
33	Analysis of Metabolites and Carbon Balance in the Biofiltration of Cumene Using Loofa Sponge as Biofilter Media. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 180, 338-48	3.2	11
32	Kinetic studies on degradation of Reactive Red 120 dye in immobilized packed bed reactor by Bacillus cohnii RAPT1. <i>Bioresource Technology</i> , 2016 , 213, 39-43	11	37
31	Biodegradation of malathion and evaluation of kinetic parameters using three bacterial species. <i>Resource-efficient Technologies</i> , 2016 , 2, S3-S11	2	19
30	Comparison of non-linear, linearized 2nd order and reduced to FOPDT models of CSTR using different tuning methods. <i>Resource-efficient Technologies</i> , 2016 , 2, S71-S75	2	3
29	Removal of aqueous benzene in the immobilized batch and continuous packed bed bioreactor by isolated Bacillus sp. M1. <i>Resource-efficient Technologies</i> , 2016 , 2, S87-S95	2	9
28	Fireworks induced particle pollution: A spatio-temporal analysis. <i>Atmospheric Research</i> , 2016 , 180, 78-91	5.4	48
27	Particulate morphology and elemental characteristics: variability at middle Indo-Gangetic Plain. <i>Journal of Atmospheric Chemistry</i> , 2016 , 73, 165-179	3.2	31

26	Associating airborne particulates and human health: Exploring possibilities: Comment on: Kim, Ki-Hyun, Kabir, E. and Kabir, S. 2015. A review on the human health impact of airborne particulate matter. <i>Environment International</i> 74 (2015) 136-143. <i>Environment International</i> , 2015 , 84, 201-2	12.9	29
25	Efficacy of <i>Aspergillus</i> sp. for degradation of chlorpyrifos in batch and continuous aerated packed bed bioreactors. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 175, 16-24	3.2	11
24	Separation of Oleoresin from Ginger Rhizome Powder Using Green Processing Technologies. <i>Journal of Food Process Engineering</i> , 2015 , 38, 107-114	2.4	15
23	Crop variables estimation by adaptive neuro-fuzzy inference system using bistatic scatterometer data 2015 ,		2
22	Seasonal inhomogeneity of soot particles over the central Indo-Gangetic Plains, India: Influence of meteorology. <i>Journal of Meteorological Research</i> , 2015 , 29, 935-949	2.3	10
21	Characterization of bacterial isolates from rubber dump site and their use in biodegradation of isoprene in batch and continuous bioreactors. <i>Bioresource Technology</i> , 2015 , 188, 84-91	11	26
20	Bistatic measurements for the estimation of rice crop variables using artificial neural network. <i>Advances in Space Research</i> , 2015 , 55, 1613-1623	2.4	19
19	Biodegradation of chlorpyrifos by <i>Pseudomonas</i> sp. in a continuous packed bed bioreactor. <i>Bioresource Technology</i> , 2014 , 165, 265-9	11	59
18	Changes in methanogenic population size and CH ₄ production potential in response to crop phenology in tropical rice field. <i>Soil Biology and Biochemistry</i> , 2013 , 57, 972-978	7.5	11
17	Community structure of methanogenic archaea and methane production associated with compost-treated tropical rice-field soil. <i>FEMS Microbiology Ecology</i> , 2012 , 82, 118-34	4.3	36
16	Degradation kinetics of chlorpyrifos and 3,5,6-trichloro-2-pyridinol (TCP) by fungal communities. <i>Bioresource Technology</i> , 2012 , 126, 216-23	11	35
15	Kinetic analysis reveals bacterial efficacy for biodegradation of chlorpyrifos and its hydrolyzing metabolite TCP. <i>Process Biochemistry</i> , 2011 , 46, 2130-2136	4.8	82
14	Substrate inhibition during bio-filtration of TCE using diazotrophic bacterial community. <i>Bioresource Technology</i> , 2011 , 102, 3561-3	11	6
13	Kinetics of bio-filtration of trichloroethylene by methanotrophs in presence of methanol. <i>Bioresource Technology</i> , 2010 , 101, 8119-26	11	34
12	Removal of toluene vapour from air stream using a biofilter packed with polyurethane foam. <i>Chemical Engineering Research and Design</i> , 2010 , 88, 366-371	5.5	50
11	Bio-filtration of trichloroethylene using diazotrophic bacterial community. <i>Bioresource Technology</i> , 2010 , 101, 2126-33	11	22
10	Biofiltration of toluene using wood charcoal as the biofilter media. <i>Bioresource Technology</i> , 2010 , 101, 3947-51	11	60
9	Spore detection in aerobic granules by different dipicolinic acid releasing methods. <i>Bioresource Technology</i> , 2007 , 98, 3164-7	11	8

8	Performance evaluation of an agro waste based biofilter treating toluene vapours. <i>Environmental Technology (United Kingdom)</i> , 2006 , 27, 349-57	2.6	12
7	Removal of toluene vapour using agro-waste as biofilter media. <i>Bioresource Technology</i> , 2006 , 97, 2296-301		36
6	Thermodynamic activity of cuprous-cupric redox oxides in alkali copper silicate glasses. <i>Journal of Materials Science</i> , 2003 , 38, 1551-1557	4.3	3
5	Spectrochemical studies on charge transfer bands due to d0, d5 and d10 ions in a sodium silicate glass. <i>Journal of Materials Science</i> , 2001 , 36, 1555-1562	4.3	8
4	Effect of winter fire on primary productivity and nutrient concentration of a dry tropical savanna. <i>Plant Ecology</i> , 1993 , 106, 63-71		23
3	Microbial C, N and P in Dry Tropical Savanna: Effects of Burning and Grazing. <i>Journal of Applied Ecology</i> , 1991 , 28, 869	5.8	60
2	Nitrogen-mineralization in dry tropical savanna: Effects of burning and grazing. <i>Soil Biology and Biochemistry</i> , 1991 , 23, 269-273	7.5	69
1	The assessment of dithiocarbamates as extreme pressure lubricant additives. <i>Wear</i> , 1980 , 64, 33-38	3.5	6