

# R S Singh

## List of Publications by Year in descending order

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99  
papers

3,848  
citations

109137

35  
h-index

138251

58  
g-index

100  
all docs

100  
docs citations

100  
times ranked

3774  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advancements in bioremediation of dye: Current status and challenges. <i>Bioresource Technology</i> , 2018, 253, 355-367.	4.8	409
2	Engineered/designer biochar for the removal of phosphate in water and wastewater. <i>Science of the Total Environment</i> , 2018, 616-617, 1242-1260.	3.9	254
3	Biodegradation of methylene blue dye in a batch and continuous mode using biochar as packing media. <i>Environmental Research</i> , 2019, 171, 356-364.	3.7	163
4	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.	4.8	126
5	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.	4.8	119
6	Biofiltration of hydrogen sulfide: Trends and challenges. <i>Journal of Cleaner Production</i> , 2018, 187, 131-147.	4.6	105
7	Kinetic analysis reveals bacterial efficacy for biodegradation of chlorpyrifos and its hydrolyzing metabolite TCP. <i>Process Biochemistry</i> , 2011, 46, 2130-2136.	1.8	100
8	Performance evaluation of Malathion biodegradation in batch and continuous packed bed bioreactor (PBBR). <i>Bioresource Technology</i> , 2017, 227, 56-65.	4.8	91
9	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.	4.8	87
10	Biodegradation of Congo red dye in a moving bed biofilm reactor: Performance evaluation and kinetic modeling. <i>Bioresource Technology</i> , 2020, 302, 122811.	4.8	81
11	Organic aerosols over Indo-Gangetic Plain: Sources, distributions and climatic implications. <i>Atmospheric Environment</i> , 2017, 157, 59-74.	1.9	76
12	Nitrogen-mineralization in dry tropical savanna: Effects of burning and grazing. <i>Soil Biology and Biochemistry</i> , 1991, 23, 269-273.	4.2	74
13	Wintertime characteristics of aerosols over middle Indo-Gangetic Plain: Vertical profile, transport and radiative forcing. <i>Atmospheric Research</i> , 2017, 183, 268-282.	1.8	74
14	Biodegradation and kinetic study of benzene in bioreactor packed with PUF and alginate beads and immobilized with <i>Bacillus</i> sp. M3. <i>Bioresource Technology</i> , 2017, 242, 92-100.	4.8	72
15	Biodegradation of chlorpyrifos by <i>Pseudomonas</i> sp. in a continuous packed bed bioreactor. <i>Bioresource Technology</i> , 2014, 165, 265-269.	4.8	71
16	Biofiltration of toluene using wood charcoal as the biofilter media. <i>Bioresource Technology</i> , 2010, 101, 3947-3951.	4.8	66
17	Microbial C, N and P in Dry Tropical Savanna: Effects of Burning and Grazing. <i>Journal of Applied Ecology</i> , 1991, 28, 869.	1.9	65
18	Fireworks induced particle pollution: A spatio-temporal analysis. <i>Atmospheric Research</i> , 2016, 180, 78-91.	1.8	64

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19	Biochar for remediation of agrochemicals and synthetic organic dyes from environmental samples: A review. <i>Chemosphere</i> , 2021, 272, 129917.	4.2	57
20	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.	4.8	56
21	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.	2.7	54
22	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.	4.8	52
23	Kinetic studies on degradation of Reactive Red 120 dye in immobilized packed bed reactor by <i>Bacillus cohnii</i> RAPT1. <i>Bioresource Technology</i> , 2016, 213, 39-43.	4.8	51
24	Adsorption of hexavalent chromium from aqueous solution by activated carbon prepared from almond shell: kinetics, equilibrium and thermodynamics study. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2018, 67, 724-737.	0.6	49
25	Biofiltration of xylene using wood charcoal as the biofilter media under transient and high loading conditions. <i>Bioresource Technology</i> , 2017, 242, 351-358.	4.8	47
26	Particulate morphology and elemental characteristics: variability at middle Indo-Gangetic Plain. <i>Journal of Atmospheric Chemistry</i> , 2016, 73, 165-179.	1.4	46
27	Degradation kinetics of chlorpyrifos and 3,5,6-trichloro-2-pyridinol (TCP) by fungal communities. <i>Bioresource Technology</i> , 2012, 126, 216-223.	4.8	43
28	Community structure of methanogenic archaea and methane production associated with compost-treated tropical rice-field soil. <i>FEMS Microbiology Ecology</i> , 2012, 82, 118-134.	1.3	43
29	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.	4.8	42
30	Removal of toluene vapour using agro-waste as biofilter media. <i>Bioresource Technology</i> , 2006, 97, 2296-2301.	4.8	41
31	Associating airborne particulates and human health: Exploring possibilities. <i>Environment International</i> , 2015, 84, 201-202.	4.8	39
32	Removal of Patent Blue (V) Dye Using Indian Bael Shell Biochar: Characterization, Application and Kinetic Studies. <i>Sustainability</i> , 2018, 10, 2669.	1.6	38
33	Source apportionment and health risk assessment of airborne particulates over central Indo-Gangetic Plain. <i>Chemosphere</i> , 2020, 257, 127145.	4.2	38
34	Kinetics of bio-filtration of trichloroethylene by methanotrophs in presence of methanol. <i>Bioresource Technology</i> , 2010, 101, 8119-8126.	4.8	37
35	Airing "clean air"™ in Clean India Mission. <i>Environmental Science and Pollution Research</i> , 2017, 24, 6399-6413.	2.7	37
36	Highly efficient bio-adsorption of Malachite green using Chinese Fan-Palm Biochar ( <i>Livistona</i> ) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 62 T	4.2	37

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37	Bio-filters for the Treatment of VOCs and Odors - A Review. Asian Journal of Atmospheric Environment, 2017, 11, 139-152.	0.4	37
38	Reusability of brilliant green dye contaminated wastewater using corncob biochar and <i>Brevibacillus parabrevis</i> : hybrid treatment and kinetic studies. Bioengineered, 2020, 11, 743-758.	1.4	34
39	Characterization of bacterial isolates from rubber dump site and their use in biodegradation of isoprene in batch and continuous bioreactors. Bioresource Technology, 2015, 188, 84-91.	4.8	31
40	Biodegradation of malathion and evaluation of kinetic parameters using three bacterial species. Resource-efficient Technologies, 2016, 2, S3-S11.	0.1	30
41	Temperature control of fermentation bioreactor for ethanol production using IMC-PID controller. Biotechnology Reports (Amsterdam, Netherlands), 2019, 22, e00319.	2.1	30
42	Effect of winter fire on primary productivity and nutrient concentration of a dry tropical savanna. Plant Ecology, 1993, 106, 63-71.	1.2	29
43	Assessment of pesticides removal using two-stage Integrated Aerobic Treatment Plant (IATP) by <i>Bacillus</i> sp. isolated from agricultural field. Bioresource Technology, 2017, 242, 45-54.	4.8	29
44	Flow visualization in dilute oxide based nanofluid boiling. International Journal of Heat and Mass Transfer, 2019, 135, 331-344.	2.5	29
45	Impact of drought and normal monsoon scenarios on aerosol induced radiative forcing and atmospheric heating in Varanasi over middle Indo-Gangetic Plain. Journal of Aerosol Science, 2017, 113, 95-107.	1.8	27
46	Association of aerosols, trace gases and black carbon with mortality in an urban pollution hotspot over central Indo-Gangetic Plain. Atmospheric Environment, 2021, 246, 118088.	1.9	26
47	Bistatic measurements for the estimation of rice crop variables using artificial neural network. Advances in Space Research, 2015, 55, 1613-1623.	1.2	25
48	Biodegradation of wastewater in alternating aerobic-anoxic lab scale pilot plant by <i>Alcaligenes</i> sp. S3 isolated from agricultural field. Journal of Environmental Management, 2018, 214, 408-415.	3.8	24
49	Separation of Oleoresin from Ginger Rhizome Powder Using Green Processing Technologies. Journal of Food Process Engineering, 2015, 38, 107-114.	1.5	23
50	Moving bed biofilm reactor with immobilized low-density polyethylene-polypropylene for Congo red dye removal. Environmental Technology and Innovation, 2021, 23, 101558.	3.0	23
51	Bio-filtration of trichloroethylene using diazotrophic bacterial community. Bioresource Technology, 2010, 101, 2126-2133.	4.8	22
52	Removal of Reactive Orange 16 by adsorption onto activated carbon prepared from rice husk ash: statistical modelling and adsorption kinetics. Separation Science and Technology, 2020, 55, 26-34.	1.3	22
53	Novel study on biodegradation of malathion and investigation of mass transfer correlation using alginate beads immobilized <i>Bacillus</i> sp. S4 in bioreactor. Journal of Environmental Chemical Engineering, 2018, 6, 3444-3450.	3.3	20
54	Construction of biotreatment platforms for aromatic hydrocarbons and their future perspectives. Journal of Hazardous Materials, 2021, 416, 125968.	6.5	20

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55	Changes in methanogenic population size and CH <sub>4</sub> production potential in response to crop phenology in tropical rice field. <i>Soil Biology and Biochemistry</i> , 2013, 57, 972-978.	4.2	19
56	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.	1.8	19
57	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.	3.0	19
58	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.	3.3	19
59	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.	3.0	19
60	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.	2.7	18
61	Insights into size-segregated particulate chemistry and sources in urban environment over central Indo-Gangetic Plain. <i>Chemosphere</i> , 2021, 263, 128030.	4.2	18
62	Progress in bioremediation of pesticide residues in the environment. <i>Environmental Engineering Research</i> , 2021, 26, 200446-0.	1.5	17
63	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.	1.4	16
64	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.	4.8	16
65	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.	4.8	16
66	Delay in DNB for flow boiling of diluted oxide based nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2017, 89, 211-218.	1.5	14
67	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.	4.8	14
68	Performance Evaluation of an Agro Waste Based Biofilter Treating Toluene Vapours. <i>Environmental Technology (United Kingdom)</i> , 2006, 27, 349-357.	1.2	13
69	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.	0.9	13
70	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, 338-348.	1.4	13
71	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.	1.5	13
72	Adsorption of Patent Blue V from Textile Industry Wastewater Using <i>Sterculia alata</i> Fruit Shell Biochar: Evaluation of Efficiency and Mechanisms. <i>Water (Switzerland)</i> , 2020, 12, 2017.	1.2	12

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73	Performance evaluation of a continuous packed bed bioreactor: Bio-kinetics and external mass transfer study. <i>Ecotoxicology and Environmental Safety</i> , 2020, 201, 110860.	2.9	12
74	Removal of aqueous benzene in the immobilized batch and continuous packed bed bioreactor by isolated <i>Bacillus</i> sp. M1. <i>Resource-efficient Technologies</i> , 2016, 2, S87-S95.	0.1	11
75	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, 351, 126921.	4.8	11
76	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.	0.1	10
77	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.	1.4	10
78	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.	1.7	10
79	Title is missing!. <i>Journal of Materials Science</i> , 2001, 36, 1555-1562.	1.7	9
80	Spore detection in aerobic granules by different dipicolinic acid releasing methods. <i>Bioresource Technology</i> , 2007, 98, 3164-3167.	4.8	9
81	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.	2.6	9
82	Substrate inhibition during bio-filtration of TCE using diazotrophic bacterial community. <i>Bioresource Technology</i> , 2011, 102, 3561-3563.	4.8	8
83	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.	1.0	8
84	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.	0.6	8
85	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.	1.2	8
86	The assessment of dithiocarbamates as extreme pressure lubricant additives. <i>Wear</i> , 1980, 64, 33-38.	1.5	7
87	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.	0.1	6
88	Sequestration of simulated carbon dioxide (CO <sub>2</sub> ) 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.	2.7	6
89	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, 10, 107936.	3.3	6
90	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.	1.0	5

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91	Crop variables estimation by adaptive neuro-fuzzy inference system using bistatic scatterometer data. , 2015, , .		4
92	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.	0.7	4
93	Bioremediation of Congo red in an anaerobic moving bed bioreactor: Process optimization and kinetic modeling. <i>Bioresource Technology Reports</i> , 2021, 16, 100843.	1.5	4
94	Thermodynamic activity of cuprous-cupric redox oxides in alkali copper silicate glasses. <i>Journal of Materials Science</i> , 2003, 38, 1551-1557.	1.7	3
95	Physico-chemical characteristics of graphite aerosols generated during postulated air ingress accident. <i>Annals of Nuclear Energy</i> , 2019, 132, 100-107.	0.9	3
96	Moving bed biofilm reactor- (MBBR-) based advanced wastewater treatment technology for the removal of emerging contaminants. , 2022, , 349-370.		2
97	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
98	The Biodegradation of 4-Chlorophenol in a Moving Bed Biofilm Reactor Using Response Surface Methodology: Effect of Biogenic Substrate and Kinetic Evaluation. <i>Applied Biochemistry and Biotechnology</i> , 2023, 195, 5280-5298.	1.4	1
99	Emission characteristics of ultrafine particles from bare and Al <sub>2</sub> O <sub>3</sub> coated graphite for high temperature applications. <i>Scientific Reports</i> , 2020, 10, 14595.	1.6	0