

# R S Singh

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/650009/r-s-singh-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Recent advancements in bioremediation of dye: Current status and challenges. <i>Bioresource Technology</i> , <b>2018</b> , 253, 355-367	11	287
96	Engineered/designer biochar for the removal of phosphate in water and wastewater. <i>Science of the Total Environment</i> , <b>2018</b> , 616-617, 1242-1260	10.2	185
95	Biodegradation of methylene blue dye in a batch and continuous mode using biochar as packing media. <i>Environmental Research</i> , <b>2019</b> , 171, 356-364	7.9	99
94	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> , <b>2018</b> , 252, 37-43	11	84
93	Removal of hydrogen sulfide generated during anaerobic treatment of sulfate-laden wastewater using biochar: Evaluation of efficiency and mechanisms. <i>Bioresource Technology</i> , <b>2017</b> , 234, 115-121	11	82
92	Kinetic analysis reveals bacterial efficacy for biodegradation of chlorpyrifos and its hydrolyzing metabolite TCP. <i>Process Biochemistry</i> , <b>2011</b> , 46, 2130-2136	4.8	82
91	Biofiltration of hydrogen sulfide: Trends and challenges. <i>Journal of Cleaner Production</i> , <b>2018</b> , 187, 131-147	7.3	75
90	Nitrogen-mineralization in dry tropical savanna: Effects of burning and grazing. <i>Soil Biology and Biochemistry</i> , <b>1991</b> , 23, 269-273	7.5	69
89	Performance evaluation of Malathion biodegradation in batch and continuous packed bed bioreactor (PBBR). <i>Bioresource Technology</i> , <b>2017</b> , 227, 56-65	11	60
88	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> , <b>2019</b> , 281, 335-342	11	60
87	Biofiltration of toluene using wood charcoal as the biofilter media. <i>Bioresource Technology</i> , <b>2010</b> , 101, 3947-51	11	60
86	Microbial C, N and P in Dry Tropical Savanna: Effects of Burning and Grazing. <i>Journal of Applied Ecology</i> , <b>1991</b> , 28, 869	5.8	60
85	Biodegradation of chlorpyrifos by <i>Pseudomonas</i> sp. in a continuous packed bed bioreactor. <i>Bioresource Technology</i> , <b>2014</b> , 165, 265-9	11	59
84	Wintertime characteristics of aerosols over middle Indo-Gangetic Plain: Vertical profile, transport and radiative forcing. <i>Atmospheric Research</i> , <b>2017</b> , 183, 268-282	5.4	57
83	Organic aerosols over Indo-Gangetic Plain: Sources, distributions and climatic implications. <i>Atmospheric Environment</i> , <b>2017</b> , 157, 59-74	5.3	52
82	Removal of toluene vapour from air stream using a biofilter packed with polyurethane foam. <i>Chemical Engineering Research and Design</i> , <b>2010</b> , 88, 366-371	5.5	50
81	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> , <b>2017</b> , 242, 92-100	11	49

80	Fireworks induced particle pollution: A spatio-temporal analysis. <i>Atmospheric Research</i> , <b>2016</b> , 180, 78-91	5.4	48
79	Biodegradation of Congo red dye in a moving bed biofilm reactor: Performance evaluation and kinetic modeling. <i>Bioresource Technology</i> , <b>2020</b> , 302, 122811	11	44
78	Kinetic studies on degradation of Reactive Red 120 dye in immobilized packed bed reactor by <i>Bacillus cohnii</i> RAPT1. <i>Bioresource Technology</i> , <b>2016</b> , 213, 39-43	11	37
77	Biofiltration of xylene using wood charcoal as the biofilter media under transient and high loading conditions. <i>Bioresource Technology</i> , <b>2017</b> , 242, 351-358	11	36
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> , <b>2020</b> , 307, 123203	11	36
75	Community structure of methanogenic archaea and methane production associated with compost-treated tropical rice-field soil. <i>FEMS Microbiology Ecology</i> , <b>2012</b> , 82, 118-34	4.3	36
74	Removal of toluene vapour using agro-waste as biofilter media. <i>Bioresource Technology</i> , <b>2006</b> , 97, 2296-301	301	36
73	Degradation kinetics of chlorpyrifos and 3,5,6-trichloro-2-pyridinol (TCP) by fungal communities. <i>Bioresource Technology</i> , <b>2012</b> , 126, 216-23	11	35
72	Kinetics of bio-filtration of trichloroethylene by methanotrophs in presence of methanol. <i>Bioresource Technology</i> , <b>2010</b> , 101, 8119-26	11	34
71	Particulate morphology and elemental characteristics: variability at middle Indo-Gangetic Plain. <i>Journal of Atmospheric Chemistry</i> , <b>2016</b> , 73, 165-179	3.2	31
70	Adsorption of hexavalent chromium from aqueous solution by activated carbon prepared from almond shell: kinetics, equilibrium and thermodynamics study <b>2018</b> , 67, 724-737		31
69	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> , <b>2015</b> , 84, 201-2	12.9	29
68	Removal of Patent Blue (V) Dye Using Indian Bael Shell Biochar: Characterization, Application and Kinetic Studies. <i>Sustainability</i> , <b>2018</b> , 10, 2669	3.6	29
67	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> , <b>2019</b> , 285, 121317	11	27
66	Bio-filters for the Treatment of VOCs and Odors - A Review. <i>Asian Journal of Atmospheric Environment</i> , <b>2017</b> , 11, 139-152	1.3	27
65	Assessment of pesticides removal using two-stage Integrated Aerobic Treatment Plant (IATP) by <i>Bacillus</i> sp. isolated from agricultural field. <i>Bioresource Technology</i> , <b>2017</b> , 242, 45-54	11	26
64	Characterization of bacterial isolates from rubber dump site and their use in biodegradation of isoprene in batch and continuous bioreactors. <i>Bioresource Technology</i> , <b>2015</b> , 188, 84-91	11	26
63	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> , <b>2020</b> , 306, 123177	11	24

62	Effect of winter fire on primary productivity and nutrient concentration of a dry tropical savanna. <i>Plant Ecology</i> , <b>1993</b> , 106, 63-71		23
61	Bio-filtration of trichloroethylene using diazotrophic bacterial community. <i>Bioresource Technology</i> , <b>2010</b> , 101, 2126-33	11	22
60	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> , <b>2017</b> , 113, 95-107	4.3	21
59	Flow visualization in dilute oxide based nanofluid boiling. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 135, 331-344	4.9	20
58	Bistatic measurements for the estimation of rice crop variables using artificial neural network. <i>Advances in Space Research</i> , <b>2015</b> , 55, 1613-1623	2.4	19
57	Source apportionment and health risk assessment of airborne particulates over central Indo-Gangetic Plain. <i>Chemosphere</i> , <b>2020</b> , 257, 127145	8.4	19
56	Biochar for remediation of agrochemicals and synthetic organic dyes from environmental samples: A review.. <i>Chemosphere</i> , <b>2021</b> , 272, 129917	8.4	19
55	Biodegradation of malathion and evaluation of kinetic parameters using three bacterial species. <i>Resource-efficient Technologies</i> , <b>2016</b> , 2, S3-S11	2	19
54	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> , <b>2018</b> , 214, 408-415	7.9	18
53	Temperature control of fermentation bioreactor for ethanol production using IMC-PID controller. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , <b>2019</b> , 22, e00319	5.3	16
52	Separation of Oleoresin from Ginger Rhizome Powder Using Green Processing Technologies. <i>Journal of Food Process Engineering</i> , <b>2015</b> , 38, 107-114	2.4	15
51	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> , <b>2018</b> , 6, 3444-3450	6.8	15
50	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> , <b>2019</b> , 77, 106-112	4.8	15
49	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> , <b>2020</b> , 55, 26-34	2.5	15
48	Reusability of brilliant green dye contaminated wastewater using corncob biochar and : hybrid treatment and kinetic studies. <i>Bioengineered</i> , <b>2020</b> , 11, 743-758	5.7	14
47	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> , <b>2019</b> , 132, 240-248	5.5	13
46	Association of aerosols, trace gases and black carbon with mortality in an urban pollution hotspot over central Indo-Gangetic Plain. <i>Atmospheric Environment</i> , <b>2021</b> , 246, 118088	5.3	13
45	Performance evaluation of an agro waste based biofilter treating toluene vapours. <i>Environmental Technology (United Kingdom)</i> , <b>2006</b> , 27, 349-57	2.6	12

44	Efficacy of <i>Aspergillus</i> sp. for degradation of chlorpyrifos in batch and continuous aerated packed bed bioreactors. <i>Applied Biochemistry and Biotechnology</i> , <b>2015</b> , 175, 16-24	3.2	11
43	Analysis of Metabolites and Carbon Balance in the Biofiltration of Cumene Using Loofa Sponge as Biofilter Media. <i>Applied Biochemistry and Biotechnology</i> , <b>2016</b> , 180, 338-48	3.2	11
42	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> , <b>2013</b> , 57, 972-978	7.5	11
41	Delay in DNB for flow boiling of diluted oxide based nanofluids. <i>Experimental Thermal and Fluid Science</i> , <b>2017</b> , 89, 211-218	3	11
40	Insights into size-segregated particulate chemistry and sources in urban environment over central Indo-Gangetic Plain. <i>Chemosphere</i> , <b>2021</b> , 263, 128030	8.4	11
39	Seasonal inhomogeneity of soot particles over the central Indo-Gangetic Plains, India: Influence of meteorology. <i>Journal of Meteorological Research</i> , <b>2015</b> , 29, 935-949	2.3	10
38	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> , <b>2017</b> , 3, 78-81	2	9
37	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> , <b>2016</b> , 2, S87-S95	2	9
36	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> , <b>2021</b> , 21, 101356	7	9
35	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> , <b>2018</b> , 266, 335-342	11	9
34	Moving bed biofilm reactor with immobilized low-density polyethylene-polypropylene for Congo red dye removal. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 23, 101558	7	9
33	Performance evaluation of a continuous packed bed bioreactor: Bio-kinetics and external mass transfer study. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 201, 110860	7	8
32	Source model estimation of the 2005 Kyushu Earthquake, Japan using Modified Semi Empirical Technique. <i>Journal of Asian Earth Sciences</i> , <b>2017</b> , 147, 240-253	2.8	8
31	Spore detection in aerobic granules by different dipicolinic acid releasing methods. <i>Bioresource Technology</i> , <b>2007</b> , 98, 3164-7	11	8
30	Spectrochemical studies on charge transfer bands due to d0, d5 and d10 ions in a sodium silicate glass. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 1555-1562	4.3	8
29	Construction of biotreatment platforms for aromatic hydrocarbons and their future perspectives. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 416, 125968	12.8	8
28	Construction of integrated system for the treatment of Acid orange 7 dye from wastewater: Optimization and growth kinetic study. <i>Bioresource Technology</i> , <b>2021</b> , 337, 125478	11	7
27	Highly efficient bio-adsorption of Malachite green using Chinese Fan-Palm Biochar ( <i>Livistona chinensis</i> ). <i>Chemosphere</i> , <b>2022</b> , 287, 132282	8.4	7

26	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> , <b>2020</b> , 192, 196-210	3.2	6
25	Substrate inhibition during bio-filtration of TCE using diazotrophic bacterial community. <i>Bioresource Technology</i> , <b>2011</b> , 102, 3561-3	11	6
24	The assessment of dithiocarbamates as extreme pressure lubricant additives. <i>Wear</i> , <b>1980</b> , 64, 33-38	3.5	6
23	Progress in bioremediation of pesticide residues in the environment. <i>Environmental Engineering Research</i> , <b>2021</b> , 26, 200446-0	3.6	5
22	Adsorption of Patent Blue V from Textile Industry Wastewater Using Sterculia alata Fruit Shell Biochar: Evaluation of Efficiency and Mechanisms. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2017	3	5
21	Biodegradation of reactive red 120 in microbial fuel cell by Staphylococcus equorum RAP2: Statistical modelling and process optimization. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 40, 101913	6.7	5
20	Seasonal variations in response of periphytic algal community to nutrient enrichment in the river Ganga (Varanasi, India). <i>Annales De Limnologie</i> , <b>2018</b> , 54, 32	0.7	5
19	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> , <b>2021</b> , 9, 105466	6.8	5
18	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> , <b>2021</b> , 24, 101820	7	5
17	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> , <b>2021</b> , 13, 100620	4.1	4
16	Performance enhancement of IMC-PID controller design for stable and unstable second-order time delay processes. <i>Journal of Central South University</i> , <b>2020</b> , 27, 88-100	2.1	3
15	Thermodynamic activity of cuprous-cupric redox oxides in alkali copper silicate glasses. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 1551-1557	4.3	3
14	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> , <b>2020</b> , 27, 27470-27479	5.1	3
13	Comparison of non-linear, linearized 2nd order and reduced to FOPDT models of CSTR using different tuning methods. <i>Resource-efficient Technologies</i> , <b>2016</b> , 2, S71-S75	2	3
12	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> , <b>2018</b> , 21, 330-344	1.7	3
11	Physico-chemical characteristics of graphite aerosols generated during postulated air ingress accident. <i>Annals of Nuclear Energy</i> , <b>2019</b> , 132, 100-107	1.7	2
10	Crop variables estimation by adaptive neuro-fuzzy inference system using bistatic scatterometer data <b>2015</b> ,		2
9	Moving bed biofilm reactor- (MBBR-) based advanced wastewater treatment technology for the removal of emerging contaminants <b>2022</b> , 349-370		2

8	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> , <b>2022</b> , 351, 126999	11	2
7	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 <b>2020</b> , 53-76		1
6	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> , <b>2021</b> , 48, 101667	4-7	1
5	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> , <b>2021</b> , 35, 285-294	1-7	1
4	Bioremediation of Congo red in an anaerobic moving bed bioreactor: Process optimization and kinetic modeling. <i>Bioresource Technology Reports</i> , <b>2021</b> , 16, 100843	4-1	1
3	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> , <b>2022</b> , 126921	11	1
2	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> , <b>2022</b> , 107936	6-8	0
1	Emission characteristics of ultrafine particles from bare and AlO coated graphite for high temperature applications. <i>Scientific Reports</i> , <b>2020</b> , 10, 14595	4-9	