

# Devendra Saroj

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,795  
citations

304602

22  
h-index

276775

41  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2362  
citing authors

#	ARTICLE	IF	CITATIONS
1	Germination and growth of horticultural crops irrigated with reclaimed water after biological treatment and ozonation. <i>Journal of Cleaner Production</i> , 2022, 336, 130173.	4.6	9
2	Practitionersâ€™ Participatory Development of Indicators for Island Community Resilience to Disasters. <i>Sustainability</i> , 2022, 14, 4102.	1.6	0
3	Whose resilience matters? A socio-ecological systems approach to defining and assessing disaster resilience for small islands. <i>Environmental Challenges</i> , 2022, 7, 100511.	2.0	13
4	Transport and deposition of solid phosphorus-based mineral particles in urine diversion systems. <i>Environmental Technology (United Kingdom)</i> , 2022, , 1-34.	1.2	1
5	Evaluation of tire derived rubber (TDR) fixed biofilm reactor (FBR) for remediation of Methylene blue dye from wastewater. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 3627-3640.	1.2	7
6	A Study on removal of Methylene Blue dye by photo catalysis integrated with nanofiltration using statistical and experimental approaches. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 2968-2981.	1.2	19
7	Domestic wastewater treatment efficiency of the pilot-scale trickling biofilter system with variable flow rates and hydraulic retention times. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 972-983.	1.2	0
8	Potential of suspended growth biological processes for mixed wastewater reclamation and reuse in agriculture: challenges and opportunities. <i>Environmental Technology Reviews</i> , 2021, 10, 77-110.	2.1	5
9	Designing a Sustainability Assessment Framework for Selecting Sustainable Wastewater Treatment Technologies in Corporate Asset Decisions. <i>Sustainability</i> , 2021, 13, 3831.	1.6	15
10	The role of ozone combined with UVC/H <sub>2</sub> O <sub>2</sub> process for the tertiary treatment of a real slaughterhouse wastewater. <i>Journal of Environmental Management</i> , 2021, 289, 112480.	3.8	10
11	Chemical composition and source characterization of PM <sub>10</sub> in urban areas of Lahore, Pakistan. <i>Indoor and Built Environment</i> , 2021, 30, 924-937.	1.5	7
12	Simulated Modelling, Design, and Performance Evaluation of a Pilot-Scale Trickling Filter System for Removal of Carbonaceous Pollutants from Domestic Wastewater. <i>Water (Switzerland)</i> , 2021, 13, 3210.	1.2	3
13	Appraisal of suspended growth process for treatment of mixture of simulated petroleum, textile, domestic, agriculture and pharmaceutical wastewater. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 3338-3353.	1.2	7
14	Evaluation of aerobic biological process with post-ozonation for treatment of mixed industrial and domestic wastewater for potential reuse in agriculture. <i>Bioresource Technology</i> , 2020, 318, 124200.	4.8	20
15	A review on advanced physico-chemical and biological textile dye wastewater treatment techniques. <i>Reviews in Environmental Science and Biotechnology</i> , 2020, 19, 543-560.	3.9	262
16	Assessment of the aerobic glass beads fixed biofilm reactor (GBs-FBR) for the treatment of simulated methylene blue wastewater. <i>Scientific Reports</i> , 2020, 10, 20705.	1.6	3
17	Modelling and optimization studies on decolorization of brilliant green dye using integrated nanofiltration and photocatalysis. <i>Sustainable Environment Research</i> , 2020, 30, .	2.1	12
18	Integrated life cycle assessment-analytic hierarchy process (LCA-AHP) with sensitivity analysis of phosphorus recovery from wastewater in Metro Manila. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 778, 012145.	0.3	2

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19	Tertiary treatment of real abattoir wastewater using combined acoustic cavitation and ozonation. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 104986.	3.8	21
20	Assessment of suspended growth biological process for treatment and reuse of mixed wastewater for irrigation of edible crops under hydroponic conditions. <i>Agricultural Water Management</i> , 2020, 231, 106034.	2.4	40
21	Development and application of novel bio-magnetic membrane capsules for the removal of the cationic dye malachite green in wastewater treatment. <i>RSC Advances</i> , 2019, 9, 3625-3646.	1.7	51
22	Phosphorus recovery from wastewater and sludge. <i>MATEC Web of Conferences</i> , 2019, 268, 06016.	0.1	2
23	Appraisal of Cu(II) adsorption by graphene oxide and its modelling via artificial neural network. <i>RSC Advances</i> , 2019, 9, 30240-30248.	1.7	15
24	Encapsulated green magnetic nanoparticles for the removal of toxic Pb <sup>2+</sup> and Cd <sup>2+</sup> from water: Development, characterization and application. <i>Journal of Environmental Management</i> , 2019, 234, 273-289.	3.8	51
25	Investigation of the active biofilm communities on polypropylene filter media in a fixed biofilm reactor for wastewater treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 3264-3275.	1.6	7
26	Water footprint and water pinch analysis techniques for sustainable water management in the brick-manufacturing industry. <i>Journal of Cleaner Production</i> , 2018, 172, 786-794.	4.6	57
27	A multi expert decision support tool for the evaluation of advanced wastewater treatment trains: A novel approach to improve urban sustainability. <i>Environmental Science and Policy</i> , 2018, 90, 1-10.	2.4	20
28	A combined activated sludge-filtration-ozonation process for abattoir wastewater treatment. <i>Journal of Water Process Engineering</i> , 2018, 25, 157-163.	2.6	30
29	Comparison of phosphorus recovery from incinerated sewage sludge ash (ISSA) and pyrolysed sewage sludge char (PSSC). <i>Waste Management</i> , 2017, 60, 201-210.	3.7	78
30	Effect of the chemical composition of filter media on the microbial community in wastewater biofilms at different temperatures. <i>RSC Advances</i> , 2016, 6, 104345-104353.	1.7	23
31	Rejection of Caffeine and Carbamazepine by Surface-Coated PVDF Hollow-Fiber Membrane System. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 2417-2425.	1.8	14
32	Membrane assisted technology appraisal for water reuse applications in South Africa. <i>Urban Water Journal</i> , 2016, 13, 536-552.	1.0	7
33	Disinfection and removal performance for <i>Escherichia coli</i> and heavy metals by silver-modified zeolite in a fixed bed column. <i>Chemical Engineering Journal</i> , 2016, 295, 92-98.	6.6	55
34	Development and testing of surface-based and water-based-diffusion kinetic models for studying hydrolysis and biogas production from cow manure. <i>Renewable Energy</i> , 2016, 86, 1113-1122.	4.3	10
35	Potential of Decentralised Wastewater Treatment Systems Applicable to India. <i>Current World Environment Journal</i> , 2016, 11, 338-350.	0.2	3
36	Membrane reactors for bioethanol production and processing. , 2015, , 313-343.		2

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37	Membrane technologies for municipal wastewater treatment. , 2015, , 443-463.		14
38	Adopting Primary Plastic Trickling Filters as a Solution for Enhanced Nitrification. Water Environment Research, 2015, 87, 80-87.	1.3	7
39	Physiological activities associated with biofilm growth in attached and suspended growth bioreactors under aerobic and anaerobic conditions. Environmental Technology (United Kingdom), 2015, 36, 1657-1671.	1.2	13
40	The effect of activated carbon addition on membrane bioreactor processes for wastewater treatment and reclamation – A critical review. Bioresource Technology, 2015, 185, 399-410.	4.8	163
41	Removal of organic micropollutants using membrane-assisted processes: a review of recent progress. Environmental Technology Reviews, 2015, 4, 17-37.	2.1	70
42	A group decision-making tool for the application of membrane technologies in different water reuse scenarios. Journal of Environmental Management, 2015, 156, 97-108.	3.8	28
43	Evaluation of local and national effects of recovering phosphorus at wastewater treatment plants: Lessons learned from the UK. Resources, Conservation and Recycling, 2015, 105, 347-359.	5.3	18
44	Removal of Escherichia coli and heavy metals from aqueous solutions using silver-modified clinoptilolite. Desalination and Water Treatment, 2015, 55, 777-782.	1.0	2
45	Assessment of biological trickling filter systems with various packing materials for improved wastewater treatment. Environmental Technology (United Kingdom), 2015, 36, 424-434.	1.2	49
46	Appraisal of the tire derived rubber (<sc>TDR</sc>) medium for wastewater treatment under aerobic and anaerobic conditions. Journal of Chemical Technology and Biotechnology, 2014, 89, 587-596.	1.6	12
47	Water – energy – pollution nexus for growing cities. Urban Climate, 2014, 10, 846-853.	2.4	46
48	Silver-modified clinoptilolite for the removal of Escherichia coli and heavy metals from aqueous solutions. Environmental Science and Pollution Research, 2014, 21, 10940-10948.	2.7	35
49	Thermophilic biological nitrogen removal in industrial wastewater treatment. Applied Microbiology and Biotechnology, 2014, 98, 945-956.	1.7	26
50	Development of simplified anaerobic digestion models (SADM's) for studying anaerobic biodegradability and kinetics of complex biomass. Biochemical Engineering Journal, 2013, 79, 84-93.	1.8	27
51	Simultaneous Sludge Disintegration and Carbon Source Generation for Enhanced Biological Phosphorous Removal Using Ozonation. Proceedings of the Water Environment Federation, 2013, 2013, 475-490.	0.0	0
52	Sludge filterability and dewaterability in a membrane bioreactor for municipal wastewater treatment. Desalination, 2010, 250, 660-665.	4.0	11
53	Activated sludge model (ASM) based modelling of membrane bioreactor (MBR) processes: A critical review with special regard to MBR specificities. Water Research, 2010, 44, 4272-4294.	5.3	174
54	Modeling and simulation of membrane bioreactors by incorporating simultaneous storage and growth concept: an especial attention to fouling while modeling the biological process. Desalination, 2008, 221, 475-482.	4.0	27

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55	Subcritical fouling behaviour modelling of membrane bioreactors for municipal wastewater treatment: The prediction of the time to reach critical operating condition. <i>Desalination</i> , 2008, 231, 175-181.	4.0	20
56	Impact of chemical cleaning and air-sparging on the critical and sustainable flux in a flat sheet membrane bioreactor for municipal wastewater treatment. <i>Water Science and Technology</i> , 2008, 57, 1873-1879.	1.2	33
57	Sub-critical fouling in a membrane bioreactor for municipal wastewater treatment: Experimental investigation and mathematical modelling. <i>Water Research</i> , 2007, 41, 3903-3914.	5.3	70
58	Enhancement in mineralization of some natural refractory organic compounds by ozonation-aerobic biodegradation. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 115-127.	1.6	6
59	Treatment of Distillery Spent-Wash by Ozonation and Biodegradation: Significance of pH Reduction and Inorganic Carbon Removal Before Ozonation. <i>Water Environment Research</i> , 2006, 78, 994-1004.	1.3	10
60	Mineralization of some natural refractory organic compounds by biodegradation and ozonation. <i>Water Research</i> , 2005, 39, 1921-1933.	5.3	53