# Devendra Saroj

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | A review on advanced physico-chemical and biological textile dye wastewater treatment techniques. Reviews in Environmental Science and Biotechnology, 2020, 19, 543-560. | 3.9 | 262 |
| 2 | 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 |
| 3 | The effect of activated carbon addition on membrane bioreactor processes for wastewater treatment and reclamation â€“ A critical review. Bioresource Technology, 2015, 185, 399-410. | 4.8 | 163 |
| 4 | Comparison of phosphorus recovery from incinerated sewage sludge ash (ISSA) and pyrolysed sewage sludge char (PSSC). Waste Management, 2017, 60, 201-210. | 3.7 | 78 |
| 5 | Sub-critical fouling in a membrane bioreactor for municipal wastewater treatment: Experimental investigation and mathematical modelling. Water Research, 2007, 41, 3903-3914. | 5.3 | 70 |
| 6 | Removal of organic micropollutants using membrane-assisted processes: a review of recent progress. Environmental Technology Reviews, 2015, 4, 17-37. | 2.1 | 70 |
| 7 | Water footprint and water pinch analysis techniques for sustainable water management in the brick-manufacturing industry. Journal of Cleaner Production, 2018, 172, 786-794. | 4.6 | 57 |
| 8 | Disinfection and removal performance for Escherichia coli and heavy metals by silver-modified zeolite in a fixed bed column. Chemical Engineering Journal, 2016, 295, 92-98. | 6.6 | 55 |
| 9 | Mineralization of some natural refractory organic compounds by biodegradation and ozonation. Water Research, 2005, 39, 1921-1933. | 5.3 | 53 |
| 10 | Development and application of novel bio-magnetic membrane capsules for the removal of the cationic dye malachite green in wastewater treatment. RSC Advances, 2019, 9, 3625-3646. | 1.7 | 51 |
| 11 | Encapsulated green magnetic nanoparticles for the removal of toxic Pb2+ and Cd2+ from water: Development, characterization and application. Journal of Environmental Management, 2019, 234, 273-289. | 3.8 | 51 |
| 12 | 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 |
| 13 | Waterâ€“energyâ€“pollution nexus for growing cities. Urban Climate, 2014, 10, 846-853. | 2.4 | 46 |
| 14 | Assessment of suspended growth biological process for treatment and reuse of mixed wastewater for irrigation of edible crops under hydroponic conditions. Agricultural Water Management, 2020, 231, 106034. | 2.4 | 40 |
| 15 | 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 |
| 16 | Impact of chemical cleaning and air-sparging on the critical and sustainable flux in a flat sheet membrane bioreactor for municipal wastewater treatment. Water Science and Technology, 2008, 57, 1873-1879. | 1.2 | 33 |
| 17 | A combined activated sludge-filtration-ozonation process for abattoir wastewater treatment. Journal of Water Process Engineering, 2018, 25, 157-163. | 2.6 | 30 |
| 18 | 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 |

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|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | Thermophilic biological nitrogen removal in industrial wastewater treatment. Applied Microbiology and Biotechnology, 2014, 98, 945-956. | 1.7 | 26 |
| 22 | Effect of the chemical composition of filter media on the microbial community in wastewater biofilms at different temperatures. RSC Advances, 2016, 6, 104345-104353. | 1.7 | 23 |
| 23 | Tertiary treatment of real abattoir wastewater using combined acoustic cavitation and ozonation. Ultrasonics Sonochemistry, 2020, 64, 104986. | 3.8 | 21 |
| 24 | Subcritical fouling behaviour modelling of membrane bioreactors for municipal wastewater treatment: The prediction of the time to reach critical operating condition. Desalination, 2008, 231, 175-181. | 4.0 | 20 |
| 25 | A multi expert decision support tool for the evaluation of advanced wastewater treatment trains: A novel approach to improve urban sustainability. Environmental Science and Policy, 2018, 90, 1-10. | 2.4 | 20 |
| 26 | Evaluation of aerobic biological process with post-ozonation for treatment of mixed industrial and domestic wastewater for potential reuse in agriculture. Bioresource Technology, 2020, 318, 124200. | 4.8 | 20 |
| 27 | A Study on removal of Methylene Blue dye by photo catalysis integrated with nanofiltration using statistical and experimental approaches. Environmental Technology (United Kingdom), 2021, 42, 2968-2981. | 1.2 | 19 |
| 28 | 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 |
| 29 | Appraisal of Cu(<scp>ii</scp>) adsorption by graphene oxide and its modelling via artificial neural network. RSC Advances, 2019, 9, 30240-30248. | 1.7 | 15 |
| 30 | Designing a Sustainability Assessment Framework for Selecting Sustainable Wastewater Treatment Technologies in Corporate Asset Decisions. Sustainability, 2021, 13, 3831. | 1.6 | 15 |
| 31 | Membrane technologies forÂmunicipal wastewater treatment. , 2015, , 443-463. | | 14 |
| 32 | Rejection of Caffeine and Carbamazepine by Surface-Coated PVDF Hollow-Fiber Membrane System. Industrial & Engineering Chemistry Research, 2016, 55, 2417-2425. | 1.8 | 14 |
| 33 | 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 |
| 34 | Whose resilience matters? A socio-ecological systems approach to defining and assessing disaster resilience for small islands. Environmental Challenges, 2022, 7, 100511. | 2.0 | 13 |
| 35 | Appraisal of the tire derived rubber (<scp>TDR</scp>) medium for wastewater treatment under aerobic and anaerobic conditions. Journal of Chemical Technology and Biotechnology, 2014, 89, 587-596. | 1.6 | 12 |
| 36 | Modelling and optimization studies on decolorization of brilliant green dye using integrated nanofiltration and photocatalysis. Sustainable Environment Research, 2020, 30, . | 2.1 | 12 |

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| 37 | Sludge filterability and dewaterability in a membrane bioreactor for municipal wastewater treatment. Desalination, 2010, 250, 660-665. | 4.0 | 11 |
| 38 | Treatment of Distillery Spent-Wash by Ozonation and Biodegradation: Significance of pH Reduction and Inorganic Carbon Removal Before Ozonation. Water Environment Research, 2006, 78, 994-1004. | 1.3 | 10 |
| 39 | Development and testing of surface-based and water-based-diffusion kinetic models for studying hydrolysis and biogas production from cow manure. Renewable Energy, 2016, 86, 1113-1122. | 4.3 | 10 |
| 40 | The role of ozone combined with UVC/H2O2 process for the tertiary treatment of a real slaughterhouse wastewater. Journal of Environmental Management, 2021, 289, 112480. | 3.8 | 10 |
| 41 | Germination and growth of horticultural crops irrigated with reclaimed water after biological treatment and ozonation. Journal of Cleaner Production, 2022, 336, 130173. | 4.6 | 9 |
| 42 | Adopting Primary Plastic Trickling Filters as a Solution for Enhanced Nitrification. Water Environment Research, 2015, 87, 80-87. | 1.3 | 7 |
| 43 | Membrane assisted technology appraisal for water reuse applications in South Africa. Urban Water Journal, 2016, 13, 536-552. | 1.0 | 7 |
| 44 | Investigation of the active biofilm communities on polypropylene filter media in a fixed biofilm reactor for wastewater treatment. Journal of Chemical Technology and Biotechnology, 2018, 93, 3264-3275. | 1.6 | 7 |
| 45 | Appraisal of suspended growth process for treatment of mixture of simulated petroleum, textile, domestic, agriculture and pharmaceutical wastewater. Environmental Technology (United Kingdom), 2020, 41, 3338-3353. | 1.2 | 7 |
| 46 | Evaluation of tire derived rubber (TDR) fixed biofilm reactor (FBR) for remediation of Methylene blue dye from wastewater. Environmental Technology (United Kingdom), 2021, 42, 3627-3640. | 1.2 | 7 |
| 47 | Chemical composition and source characterization of PM<sub>10</sub> in urban areas of Lahore, Pakistan. Indoor and Built Environment, 2021, 30, 924-937. | 1.5 | 7 |
| 48 | Enhancement in mineralization of some natural refractory organic compounds by ozonation-aerobic biodegradation. Journal of Chemical Technology and Biotechnology, 2006, 81, 115-127. | 1.6 | 6 |
| 49 | Potential of suspended growth biological processes for mixed wastewater reclamation and reuse in agriculture: challenges and opportunities. Environmental Technology Reviews, 2021, 10, 77-110. | 2.1 | 5 |
| 50 | Assessment of the aerobic glass beads fixed biofilm reactor (GBs-FBR) for the treatment of simulated methylene blue wastewater. Scientific Reports, 2020, 10, 20705. | 1.6 | 3 |
| 51 | Potential of Decentralised Wastewater Treatment Systems Applicable to India. Current World Environment Journal, 2016, 11, 338-350. | 0.2 | 3 |
| 52 | Simulated Modelling, Design, and Performance Evaluation of a Pilot-Scale Trickling Filter System for Removal of Carbonaceous Pollutants from Domestic Wastewater. Water (Switzerland), 2021, 13, 3210. | 1.2 | 3 |
| 53 | Membrane reactors for bioethanol production and processing. , 2015, , 313-343. | | 2 |
| 54 | Removal ofEscherichia coliand heavy metals from aqueous solutions using silver-modified clinoptilolite. Desalination and Water Treatment, 2015, 55, 777-782. | 1.0 | 2 |

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|---|---|---|---|
| 55 | Phosphorus recovery from wastewater and sludge. MATEC Web of Conferences, 2019, 268, 06016. | 0.1 | 2 |
| 56 | Integrated life cycle assessment-analytic hierarchy process (LCA-AHP) with sensitivity analysis of phosphorus recovery from wastewater in Metro Manila. IOP Conference Series: Materials Science and Engineering, 2020, 778, 012145. | 0.3 | 2 |
| 57 | Transport and deposition of solid phosphorus-based mineral particles in urine diversion systems. Environmental Technology (United Kingdom), 2022, , 1-34. | 1.2 | 1 |
| 58 | 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 |
| 59 | Domestic wastewater treatment efficiency of the pilot-scale trickling biofilter system with variable flow rates and hydraulic retention times. Environmental Technology (United Kingdom), 2021, 42, 972-983. | 1.2 | 0 |
| 60 | Practitionersâ€™ Participatory Development of Indicators for Island Community Resilience to Disasters. Sustainability, 2022, 14, 4102. | 1.6 | 0 |