Sudesh Rathilal

List of Publications by Year
in descending order

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68 papers	1,484 citations	516710 16 h-index	361022 35 g-index
69 all docs	69 docs citations	69 times ranked	1158 citing authors

#	Article	IF	Citations
1	Membrane Technologies in Wastewater Treatment: A Review. Membranes, 2020, 10, 89.	3.0	607
2	Photocatalytic degradation of oily waste and phenol from a local South Africa oil refinery wastewater using response methodology. Scientific Reports, 2020, 10, 8850.	3.3	57
3	Membrane desalination technologies in water treatment: A review. Water Practice and Technology, 2018, 13, 738-752.	2.0	47
4	Coagulation Treatment of Wastewater: Kinetics and Natural Coagulant Evaluation. Molecules, 2021, 26, 698.	3.8	47
5	Fate of COVID-19 Occurrences in Wastewater Systems: Emerging Detection and Treatment Technologiesâ€"A Review. Water (Switzerland), 2020, 12, 2680.	2.7	42
6	The applicability of nanofiltration for the treatment and reuse of textile reactive dye effluent. Water S A, 2015, 41, 398.	0.4	36
7	Comparison of response surface methods for the optimization of an upflow anaerobic sludge blanket for the treatment of slaughterhouse wastewater. Environmental Engineering Research, 2020, 25, 114-122.	2.5	36
8	Removal of COD and SO42â^' from Oil Refinery Wastewater Using a Photo-Catalytic Systemâ€"Comparing TiO2 and Zeolite Efficiencies. Water (Switzerland), 2020, 12, 214.	2.7	35
9	Application of magnetized nanomaterial for textile effluent remediation using response surface methodology. Materials Today: Proceedings, 2021, 38, 700-711.	1.8	24
10	Prospects of Synthesized Magnetic TiO2-Based Membranes for Wastewater Treatment: A Review. Materials, 2021, 14, 3524.	2.9	24
11	Application of Organic Coagulants in Water and Wastewater Treatment. , 0, , .		22
12	Evaluation of different polymeric coagulants for the treatment of oil refinery wastewater. Cogent Engineering, 2020, 7, 1785756.	2.2	21
13	Characteristics of greywater from different sources within households in a community in Durban, South Africa. Journal of Water Reuse and Desalination, 2017, 7, 520-528.	2.3	19
14	Donnan Membrane Process for the Selective Recovery and Removal of Target Metal Ionsâ€"A Mini Review. Membranes, 2021, 11, 358.	3.0	19
15	Kinetics and Nanoparticle Catalytic Enhancement of Biogas Production from Wastewater Using a Magnetized Biochemical Methane Potential (MBMP) System. Catalysts, 2020, 10, 1200.	3.5	18
16	Response Surface Methodology: Photocatalytic Degradation Kinetics of Basic Blue 41 Dye Using Activated Carbon with TiO2. Molecules, 2021, 26, 1068.	3.8	17
17	Membrane Bioreactors for Produced Water Treatment: A Mini-Review. Membranes, 2022, 12, 275.	3.0	17
18	Adsorption and Photocatalytic Mineralization of Bromophenol Blue Dye with TiO2 Modified with Clinoptilolite/Activated Carbon. Catalysts, 2021, 11, 7.	3.5	16

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19	A Review of the Techno-Economic Feasibility of Nanoparticle Application for Wastewater Treatment. Water (Switzerland), 2022, 14, 1550.	2.7	16
20	Synergistic Effect of Magnetite and Bioelectrochemical Systems on Anaerobic Digestion. Bioengineering, 2021, 8, 198.	3.5	15
21	Treatment of industrial mineral oil wastewater â€“ effects of coagulant type and dosage. Water Practice and Technology, 2017, 12, 139-145.	2.0	14
22	Investigation of BTEX compounds adsorption onto polystyrenic resin. South African Journal of Chemical Engineering, 2017, 23, 71-80.	2.4	14
23	Effects of a polymeric organic coagulant for industrial mineral oil wastewater treatment using response surface methodology (RSM). Water S A, 2018, 44, .	0.4	14
24	Synergistic Effects of Magnetic Nanomaterials on Post-Digestate for Biogas Production. Molecules, 2021, 26, 6434.	3.8	13
25	A pilot study into public attitudes and perceptions towards greywater reuse in a low cost housing development in Durban, South Africa. Journal of Water Reuse and Desalination, 2016, 6, 345-354.	2.3	12
26	Fouling mitigation on a woven fibre microfiltration membrane for the treatment of raw water. South African Journal of Chemical Engineering, 2017, 23, 1-9.	2.4	12
27	Removal of Antibiotics During the Anaerobic Digestion of Slaughterhouse Wastewater. International Journal of Sustainable Development and Planning, 2020, 15, 335-342.	0.7	12
28	Optimization of photo-catalytic degradation of oil refinery wastewater using Box-Behnken design. Environmental Engineering Research, 2019, 24, 711-717.	2.5	12
29	Effect of Engineered Biomaterials and Magnetite on Wastewater Treatment: Biogas and Kinetic Evaluation. Polymers, 2021, 13, 4323.	4.5	12
30	Evaluating Pre- and Post-Coagulation Configuration of Dissolved Air Flotation Using Response Surface Methodology. Processes, 2020, 8, 383.	2.8	11
31	Desalination of Municipal Wastewater Using Forward Osmosis. Membranes, 2021, 11, 119.	3.0	11
32	Response Surface Optimization of Biophotocatalytic Degradation of Industrial Wastewater for Bioenergy Recovery. Bioengineering, 2022, 9, 95.	3.5	11
33	Model prediction of coagulation by magnetised rice starch for wastewater treatment using response surface methodology (RSM) with artificial neural network (ANN). Scientific African, 2022, 17, e01282.	1.5	11
34	Treatment of Water and Wastewater for Reuse and Energy Generation-Emerging Technologies. , 0, , .		10
35	Biogas production from wastewater treatment: Evaluating anaerobic and biomagnetic systems. Water-Energy Nexus, 2021, 4, 165-173.	4.0	10
36	Ion Exchange Dialysis for Aluminium Transport through a Face-Centred Central Composite Design Approach. Processes, 2020, 8, 160.	2.8	9

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37	Evaluation of the coagulation floatation process for industrial mineral oil wastewater treatment using response surface methodology (rsm). International Journal of Environmental Impacts Management Mitigation and Recovery, 2018, 1, 491-502.	0.4	9
38	Biophotocatalytic Reduction of CO2 in Anaerobic Biogas Produced from Wastewater Treatment Using an Integrated System. Catalysts, 2022, 12, 76.	3.5	9
39	Response surface optimisation of a magnetic coagulation process for wastewater treatment via Box-Behnken. Materials Today: Proceedings, 2022, 62, S122-S126.	1.8	9
40	Development and evaluation of a small scale water disinfection system. Journal of Water Sanitation and Hygiene for Development, 2016, 6, 389-400.	1.8	8
41	Synthesis and characterization of magnetic nanoparticles: Biocatalytic effects on wastewater treatment. Materials Today: Proceedings, 2022, 62, S79-S84.	1.8	8
42	Effect of an Electromagnetic Field on Anaerobic Digestion: Comparing an Electromagnetic System (ES), a Microbial Electrolysis System (MEC), and a Control with No External Force. Molecules, 2022, 27, 3372.	3.8	8
43	Application of Bioelectrochemical System and Magnetite Nanoparticles on the Anaerobic Digestion of Sewage Sludge: Effect of Electrode Configuration. Catalysts, 2022, 12, 642.	3.5	8
44	Modelling competitive BTEX compounds removal from industrial wastewater in packed-bed columns using polystyrenic resin. Journal of Water Reuse and Desalination, 2018, 8, 372-385.	2.3	7
45	Application of biomagnetic nanoparticles for biostimulation of biogas production from wastewater treatment. Materials Today: Proceedings, 2021, 45, 5214-5220.	1.8	7
46	PRE-TREATMENT OF INDUSTRIAL MINERAL OIL WASTEWATER USING RESPONSE SURFACE METHODOLOGY. WIT Transactions on Ecology and the Environment, 2017, , .	0.0	7
47	Effect of ion exchange dialysis process variables on aluminium permeation using response surface methodology. Environmental Engineering Research, 2020, 25, 714-721.	2.5	7
48	Characterization of South African Brewery Wastewater: Oxidation-Reduction Potential Variation. Water (Switzerland), 2022, 14, 1604.	2.7	7
49	Application of metallic nanoparticles for biogas enhancement using the biomethane potential test. Scientific African, 2021, 12, e00728.	1.5	6
50	Effect of sieve tray hole diameter on the efficiency of a vibrating plate extractor. South African Journal of Chemical Engineering, 2017, 23, 38-41.	2.4	5
51	INVESTIGATING DISSOLVED AIR FLOTATION FACTORS FOR OIL REFINERY WASTEWATER TREATMENT. CBU International Conference Proceedings, 0, 6, 1173-1177.	0.0	5
52	APPLICATION OF RESPONSE SURFACE METHODOLOGY (RSM) - REDUCTION OF INDUSTRIAL WASTEWATER CHEMICAL OXYGEN DEMAND. CBU International Conference Proceedings, 0, 5, 1226-1232.	0.0	5
53	Pilot study of a horizontal roughing filtration system treating greywater generated from a peri-urban community in Durban, South Africa. Journal of Water Reuse and Desalination, 2019, 9, 330-337.	2.3	4
54	Adsorptive removal of veterinary antibiotics from water using an integrated photocatalyst (IPCA). International Journal of Environmental Studies, 2020, 77, 236-254.	1.6	4

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55	ANAEROBIC TREATMENT OF SLAUGHTERHOUSE WASTEWATER: EVALUATING OPERATING CONDITIONS. WIT Transactions on Ecology and the Environment, 2019, , .	0.0	4
56	Sequencing Batch Reactor Performance Evaluation on Orthophosphates and COD Removal from Brewery Wastewater. Fermentation, 2022, 8, 296.	3.0	4
57	Sorption of Perfluorinated and Pharmaceutical Compounds in Plastics: A Molecular Simulation Study. Water (Switzerland), 2022, 14, 1951.	2.7	4
58	Molecular Imprinting Technology: A New Approach for Antibacterial Materials. Environmental and Microbial Biotechnology, 2021, , 393-421.	0.7	3
59	STUDY OF THE START-UP OF AN UPFLOW LABORATORY-SCALE ANAEROBIC SLUDGE BLANKET FOR THE TREATMENT OF SLAUGHTERHOUSE WASTEWATER. WIT Transactions on Ecology and the Environment, 2017, , .	0.0	3
60	Fouling control in a woven fibre microfiltration membrane for water treatment. Environmental Engineering Research, 2019, 24, 418-426.	2.5	3
61	DEGRADATION OF VETERINARY ANTIBIOTICS FROM SLAUGHTERHOUSE WASTEWATER USING TITANIUM DIOXIDE AS A CATALYST. WIT Transactions on Ecology and the Environment, 2018, , .	0.0	3
62	Tapping wastewater resource: why and how?. , 2022, , 125-146.		3
63	Exploring CO2 Bio-Mitigation via a Biophotocatalytic/Biomagnetic System for Wastewater Treatment and Biogas Production. Applied Sciences (Switzerland), 2022, 12, 6840.	2.5	3
64	Fouling and Cleaning in Osmotically Driven Membranes. , 2018, , .		2
65	OPTIMIZATION OF DONNAN DIALYSIS FOR ALUM RECOVERY USING BOX BEHNKEN DESIGN. CBU International Conference Proceedings, 0, 6, 1007-1012.	0.0	2
66	LAB SCALE STUDY OF HRT AND OLR OPTIMIZATION IN A UASB TREATING SLAUGHTERHOUSE WASTEWATER. CBU International Conference Proceedings, 0, 6, 1030-1035.	0.0	2
67	Assessment of Forward Osmosis in PRO Mode during Desalination of a Local Oil Refinery Effluent. Membranes, 2021, 11, 801.	3.0	2
68	Evaluation of flux stabilisation using Bio-UF membrane filter on KZN Rivers, South Africa. Membrane Water Treatment, 2016, 7, 313-325.	0.5	0