Muttucumaru Sivakumar

List of Publications by Year
in descending order

| 77 papers | 2,177 citations | 394286 19 h-index | 233338 45 g-index |

| 79 all docs | 79 docs citations | 79 times ranked | 2495 citing authors |

#	Article	IF	Citations
1	Review of pollutants removed by electrocoagulation and electrocoagulation/flotation processes. Journal of Environmental Management, 2009, 90, 1663-1679.	3.8	515
2	Application of solar energy in water treatment processes: A review. Desalination, 2018, 428, 116-145.	4.0	220
3	Fluoride removal by a continuous flow electrocoagulation reactor. Journal of Environmental Management, 2009, 90, 1204-1212.	3.8	152
4	Effect of mixed liquor pH on the removal of trace organic contaminants in a membrane bioreactor. Bioresource Technology, 2010, 101, 1494-1500.	4.8	135
5	Geopolymers in construction - recent developments. Construction and Building Materials, 2020, 260, 120472.	3.2	127
6	An empirical model for defluoridation by batch monopolar electrocoagulation/flotation (ECF) process. Journal of Hazardous Materials, 2006, 131, 118-125.	6.5	113
7	Analysis and the understanding of fluoride removal mechanisms by an electrocoagulation/flotation (ECF) process. Desalination, 2011, 275, 102-106.	4.0	99
8	Prediction of urban stormwater quality using artificial neural networks. Environmental Modelling and Software, 2009, 24, 296-302.	1.9	91
9	Denitrification using a monopolar electrocoagulation/flotation (ECF) process. Journal of Environmental Management, 2009, 91, 516-522.	3.8	57
10	Removal of trace organic contaminants by submerged membrane bioreactors. Desalination, 2009, 236, 127-134.	4.0	54
11	Data-driven estimation of COVID-19 community prevalence through wastewater-based epidemiology. Science of the Total Environment, 2021, 789, 147947.	3.9	54
12	An analytical flux decline model for membrane distillation. Desalination, 2014, 345, 1-12.	4.0	45
13	A critical review of the symbiotic relationship between constructed wetland and microbial fuel cell for enhancing pollutant removal and energy generation. Journal of Environmental Chemical Engineering, 2021, 9, 105011.	3.3	45
14	Dynamic variation of supernatant quality in a dairy shed waste stabilisation pond system. Water Science and Technology, 2007, 55, 245-255.	1.2	44
15	Mine Water Treatment Using a Vacuum Membrane Distillation System. APCBEE Procedia, 2013, 5, 157-162.	0.5	34
16	Enhanced decay of coronaviruses in sewers with domestic wastewater. Science of the Total Environment, 2022, 813, 151919.	3.9	27
17	Evolutionary Modeling for Streamflow Forecasting with Minimal Datasets: A Case Study in the West Malian River, China. Environmental Engineering Science, 2010, 27, 377-385.	0.8	25
18	Back-estimation of norovirus infections through wastewater-based epidemiology: A systematic review and parameter sensitivity. Water Research, 2022, 219, 118610.	5.3	25

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19	Relationship between the synergistic/antagonistic effect of anaerobic co-digestion and organic loading. International Biodeterioration and Biodegradation, 2017, 124, 155-161.	1.9	23
20	Wastewater and stormwater minimisation in a coal mine. Journal of Cleaner Production, 2000, 8, 23-34.	4.6	20
21	A taxonomy of design factors in constructed wetland-microbial fuel cell performance: A review. Journal of Environmental Management, 2021, 291, 112723.	3.8	20
22	Dairy shed effluent treatment and recycling: Effluent characteristics and performance. Journal of Environmental Management, 2016, 180, 133-146.	3.8	17
23	Decay of four enteric pathogens and implications to wastewater-based epidemiology: Effects of temperature and wastewater dilutions. Science of the Total Environment, 2022, 819, 152000.	3.9	17
24	Flood Mitigation Using an Innovative Flood Control Scheme in a Large Lake: Dongting Lake, China. Applied Sciences (Switzerland), 2019, 9, 2465.	1.3	14
25	Membrane bioreactor technology for decentralised wastewater treatment and reuse. International Journal of Water, 2007, 3, 368.	0.1	12
26	Prediction of heavy metal concentrations in urban stormwater. Water and Environment Journal, 2009, 23, 247-254.	1.0	12
27	Prediction of Nutrient Concentrations in Urban Storm Water. Journal of Environmental Engineering, ASCE, 2009, 135, 586-594.	0.7	11
28	Brackish water treatment for reuse using vacuum membrane distillation process. Water Science and Technology: Water Supply, 2015, 15, 362-369.	1.0	11
29	Experimental Study of Smooth Channel Flow Division Based on Velocity Distribution. Journal of Hydraulic Engineering, 2015, 141, 06014025.	0.7	11
30	Comparison of Artificial Neural Network and Regression Models in the Prediction of Urban Stormwater Quality. Water Environment Research, 2008, 80, 4-9.	1.3	10
31	Analytical performance comparison of four SARS-CoV-2 RT-qPCR primer-probe sets for wastewater samples. Science of the Total Environment, 2022, 806, 150572.	3.9	10
32	A multiple-criteria decision-making model for evaluating sustainability of business enterprises. International Journal of Industrial and Systems Engineering, 2013, 14, 315.	0.1	9
33	Effects of sample size and concentration of seeding in LDA measurements on the velocity bias in open channel flow. Flow Measurement and Instrumentation, 2014, 38, 92-97.	1.0	9
34	Investigation of Velocity Distribution in Open Channel Flows Based on Conditional Average of Turbulent Structures. Mathematical Problems in Engineering, 2017, 2017, 1-9.	0.6	9
35	Enhancing integrated denitrifying anaerobic methane oxidation and Anammox processes for nitrogen and methane removal: A review. Critical Reviews in Environmental Science and Technology, 2023, 53, 390-415.	6.6	9
36	Evolutionary Algorithm for Water Storage Forecasting Response to Climate Change with Small Data Sets: The Wolonghu Wetland, China. Environmental Engineering Science, 2012, 29, 814-820.	0.8	8

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37	Investigating an Innovative Sea-Based Strategy to Mitigate Coastal City Flood Disasters and Its Feasibility Study for Brisbane, Australia. Water (Switzerland), 2020, 12, 2744.	1.2	7
38	Reaeration and Wind Induced Turbulence Shear in a Contained Water Body. , 1984, , 369-377.		7
39	Three-Dimensional Velocity Distribution in Straight Smooth Channels Modeled by Modified Log-Law. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	6
40	Re-examining log law velocity profile in smooth open channel flows. Environmental Fluid Mechanics, 2020, 20, 953-986.	0.7	6
41	Optimum number of storms required to derive site mean concentrations at urban catchments. Urban Water Journal, 2009, 6, 107-113.	1.0	5
42	A Model for the Prediction of Keaeration Coefficient in lakes from wind Velocity. Developments in Water Science, 1979, 11, 331-340.	0.1	4
43	Prediction of long-term urban stormwater loads at single sites. Water Management, 2013, 166, 81-92.	0.4	4
44	Direct Measurements of Hydrodynamic Forces Induced by Tidal Bores. Water Resources Research, 2021, 57, e2020WR028970.	1.7	4
45	SALINITY MODELLING AND MANAGEMENT OF THE LOWER LAKES OF THE MURRAYâ€"DARLING BASIN, AUSTRALIA. , 2018, , .		4
46	Assessment of social and environmental impacts of coastal reservoirs. Journal of Sustainable Urbanization Planning and Progress, 2017, 2, 19-26.	0.1	4
47	Mine water management and controls in an environmentally sensitive region. Mine Water and the Environment, 1994, 13, 27-39.	0.9	3
48	Transport and biotransformation of organic carbon and nitrate compounds in unsaturated soil conditions. Water Science and Technology, 2008, 58, 2143-2153.	1.2	3
49	FOULING AND WETTING STUDIES RELATING TO THE VACUUM MEMBRANE DISTILLATION PROCESS FOR BRACKISH AND GREY WATER TREATMENT. Journal of Porous Media, 2017, 20, 531-547.	1.0	3
50	Fluoride, iron and manganese removal from brackish groundwater by solar powered vacuum membrane distillation. , 0, 137, 58-68.		3
51	Mine water effluent quality in the Illawarra region. Mine Water and the Environment, 1992, 11, 1-10.	0.9	2
52	Mathematical Model to Predict Solids Content of Water Treatment Residuals during Drying. Journal of Environmental Engineering, ASCE, 2007, 133, 165-172.	0.7	2
53	Discussion: Prediction of long-term urban stormwater loads at single sites. Water Management, 2014, 167, 482-484.	0.4	2
54	Energy evaluation and treatment efficiency of vacuum membrane distillation for brackish water desalination. Journal of Water Reuse and Desalination, 2015, 5, 119-131.	1.2	2

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55	A coastal reservoir for Greater Sydney water supply in Shoalhaven river â€" a preliminary study. Water Science and Technology: Water Supply, 2022, 22, 4457-4476.	1.0	2
56	A penalty finite difference model for Navier-Stokes flow problem in sedimentation basins. Advances in Water Resources, 1991, 14, 318-322.	1.7	1
57	Dairy shed wastewater treatment and modelling by anaerobic digestion technology. International Journal of Environment and Waste Management, 2007, 1, 321.	0.2	1
58	Flow Partitioning in Rectangular Open Channel Flow. Mathematical Problems in Engineering, 2018, 2018, 1-7.	0.6	1
59	Introduction to IACRR and coastal reservoirs (CR). , 2020, , 1-9.		1
60	Water quality considerations. , 2020, , 33-59.		1
61	Simulation of Water and Contaminant Transport Through Vadose Zone - Redistribution System. , 0, , .		1
62	Grey water treatment using a solar powered electro-coagulator and vacuum membrane distillation system. , 0, 85, 46-54.		1
63	MULTI-OBJECTIVE ANALYSIS FOR THE SELECTION OF A SUSTAINABLE GREYWATER TREATMENT SYSTEM. Environmental Engineering and Management Journal, 2019, 18, 159-170.	0.2	1
64	Development and evaluation of a novel geopolymer based on basalt rock waste and ground granulated blast furnace slag. Australian Journal of Civil Engineering, 2022, 20, 424-443.	0.6	1
65	A contact angle study of different greywater sources with hydrophobic membranes. Water Quality Research Journal of Canada, 2020, 55, 310-326.	1.2	1
66	Application of executive information system to mine site water pollution control. Mine Water and the Environment, 1995, 14, 95.	0.9	0
67	Sustainable solar powered vaccum membrane distillation for water treatment. , 2015, , .		0
68	Water storage and design considerations of coastal reservoirs. , 2020, , 11-32.		0
69	Preliminary feasibility study of coastal reservoirs for Australia. , 2020, , 111-141.		0
70	An alternative method to solve water scarcity in Adelaide â€" apply a coastal reservoir strategy in the Lower Lakes. , 2020, , 199-230.		0
71	Solid-flow interactions of a large aspect ratio cylinder in a shallow open channel. Physics of Fluids, 2020, 32, 055108.	1.6	0
72	Heat and mass transfer simulation and experimental evaluation of solar powered vacuum membrane. , 0, 59, 31-47.		0

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73	Sustainable Management of Mine Induced Water. , 2016, , 261-286.		0
74	Heat and mass transfer simulation and experimental evaluation of solar powered vacuum membrane distillation system. , 0, 59, 31-47.		0
75	Decentralized Net-Zero Greywater Reuse for Blue Infrastructure of a Regenerative House. International Journal of Sustainable Energy Development, 2017, 6, 324-333.	0.4	0
76	Strategic Analysis on the Potential of Coastal Reservoirs in Reshaping Indian Coastal Economic Corridor. International Journal of Ocean and Coastal Engineering, 2019, 02, 1940003.	0.3	0
77	CHARACTERISTICS OF FLOW PAST A SLENDER, EMERGENT CYLINDER IN SHALLOW OPEN CHANNELS. , 2019, , .		0