Muttucumaru Sivakumar

List of Publications by Year
in descending order

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

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

#	Article	IF	Citations
1	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
2	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
3	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
4	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
5	Enhanced decay of coronaviruses in sewers with domestic wastewater. Science of the Total Environment, 2022, 813, 151919.	3.9	27
6	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
7	Back-estimation of norovirus infections through wastewater-based epidemiology: A systematic review and parameter sensitivity. Water Research, 2022, 219, 118610.	5.3	25
8	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
9	Direct Measurements of Hydrodynamic Forces Induced by Tidal Bores. Water Resources Research, 2021, 57, e2020WR028970.	1.7	4
10	A taxonomy of design factors in constructed wetland-microbial fuel cell performance: A review. Journal of Environmental Management, 2021, 291, 112723.	3.8	20
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	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
13	Geopolymers in construction - recent developments. Construction and Building Materials, 2020, 260, 120472.	3.2	127
14	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
15	Introduction to IACRR and coastal reservoirs (CR). , 2020, , 1-9.		1
16	Water storage and design considerations of coastal reservoirs. , 2020, , 11-32.		0
17	Water quality considerations. , 2020, , 33-59.		1
18	Preliminary feasibility study of coastal reservoirs for Australia. , 2020, , 111-141.		0

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19	An alternative method to solve water scarcity in Adelaide â€“ apply a coastal reservoir strategy in the Lower Lakes. , 2020, , 199-230.		0
20	Solid-flow interactions of a large aspect ratio cylinder in a shallow open channel. Physics of Fluids, 2020, 32, 055108.	1.6	0
21	Re-examining log law velocity profile in smooth open channel flows. Environmental Fluid Mechanics, 2020, 20, 953-986.	0.7	6
22	A contact angle study of different greywater sources with hydrophobic membranes. Water Quality Research Journal of Canada, 2020, 55, 310-326.	1.2	1
23	Flood Mitigation Using an Innovative Flood Control Scheme in a Large Lake: Dongting Lake, China. Applied Sciences (Switzerland), 2019, 9, 2465.	1.3	14
24	MULTI-OBJECTIVE ANALYSIS FOR THE SELECTION OF A SUSTAINABLE GREYWATER TREATMENT SYSTEM. Environmental Engineering and Management Journal, 2019, 18, 159-170.	0.2	1
25	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
26	CHARACTERISTICS OF FLOW PAST A SLENDER, EMERGENT CYLINDER IN SHALLOW OPEN CHANNELS. , 2019, , .		0
27	Application of solar energy in water treatment processes: A review. Desalination, 2018, 428, 116-145.	4.0	220
28	Flow Partitioning in Rectangular Open Channel Flow. Mathematical Problems in Engineering, 2018, 2018, 1-7.	0.6	1
29	SALINITY MODELLING AND MANAGEMENT OF THE LOWER LAKES OF THE MURRAYâ€“DARLING BASIN, AUSTRALIA. , 2018, , .		4
30	Relationship between the synergistic/antagonistic effect of anaerobic co-digestion and organic loading. International Biodeterioration and Biodegradation, 2017, 124, 155-161.	1.9	23
31	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
32	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
33	Assessment of social and environmental impacts of coastal reservoirs. Journal of Sustainable Urbanization Planning and Progress, 2017, 2, 19-26.	0.1	4
34	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
35	Dairy shed effluent treatment and recycling: Effluent characteristics and performance. Journal of Environmental Management, 2016, 180, 133-146.	3.8	17
36	Sustainable Management of Mine Induced Water. , 2016, , 261-286.		0

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37	Brackish water treatment for reuse using vacuum membrane distillation process. Water Science and Technology: Water Supply, 2015, 15, 362-369.	1.0	11
38	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
39	Sustainable solar powered vaccum membrane distillation for water treatment. , 2015, , .		0
40	Experimental Study of Smooth Channel Flow Division Based on Velocity Distribution. Journal of Hydraulic Engineering, 2015, 141, 06014025.	0.7	11
41	Discussion: Prediction of long-term urban stormwater loads at single sites. Water Management, 2014, 167, 482-484.	0.4	2
42	An analytical flux decline model for membrane distillation. Desalination, 2014, 345, 1-12.	4.0	45
43	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
44	Mine Water Treatment Using a Vacuum Membrane Distillation System. APCBEE Procedia, 2013, 5, 157-162.	0.5	34
45	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
46	Prediction of long-term urban stormwater loads at single sites. Water Management, 2013, 166, 81-92.	0.4	4
47	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
48	Analysis and the understanding of fluoride removal mechanisms by an electrocoagulation/flotation (ECF) process. Desalination, 2011, 275, 102-106.	4.0	99
49	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
50	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
51	Optimum number of storms required to derive site mean concentrations at urban catchments. Urban Water Journal, 2009, 6, 107-113.	1.0	5
52	Prediction of Nutrient Concentrations in Urban Storm Water. Journal of Environmental Engineering, ASCE, 2009, 135, 586-594.	0.7	11
53	Fluoride removal by a continuous flow electrocoagulation reactor. Journal of Environmental Management, 2009, 90, 1204-1212.	3.8	152
54	Prediction of heavy metal concentrations in urban stormwater. Water and Environment Journal, 2009, 23, 247-254.	1.0	12

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55	Prediction of urban stormwater quality using artificial neural networks. Environmental Modelling and Software, 2009, 24, 296-302.	1.9	91
56	Review of pollutants removed by electrocoagulation and electrocoagulation/flotation processes. Journal of Environmental Management, 2009, 90, 1663-1679.	3.8	515
57	Denitrification using a monopolar electrocoagulation/flotation (ECF) process. Journal of Environmental Management, 2009, 91, 516-522.	3.8	57
58	Removal of trace organic contaminants by submerged membrane bioreactors. Desalination, 2009, 236, 127-134.	4.0	54
59	Transport and biotransformation of organic carbon and nitrate compounds in unsaturated soil conditions. Water Science and Technology, 2008, 58, 2143-2153.	1.2	3
60	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
61	Dairy shed wastewater treatment and modelling by anaerobic digestion technology. International Journal of Environment and Waste Management, 2007, 1, 321.	0.2	1
62	Mathematical Model to Predict Solids Content of Water Treatment Residuals during Drying. Journal of Environmental Engineering, ASCE, 2007, 133, 165-172.	0.7	2
63	Membrane bioreactor technology for decentralised wastewater treatment and reuse. International Journal of Water, 2007, 3, 368.	0.1	12
64	Dynamic variation of supernatant quality in a dairy shed waste stabilisation pond system. Water Science and Technology, 2007, 55, 245-255.	1.2	44
65	An empirical model for defluoridation by batch monopolar electrocoagulation/flotation (ECF) process. Journal of Hazardous Materials, 2006, 131, 118-125.	6.5	113
66	Wastewater and stormwater minimisation in a coal mine. Journal of Cleaner Production, 2000, 8, 23-34.	4.6	20
67	Application of executive information system to mine site water pollution control. Mine Water and the Environment, 1995, 14, 95.	0.9	0
68	Mine water management and controls in an environmentally sensitive region. Mine Water and the Environment, 1994, 13, 27-39.	0.9	3
69	Mine water effluent quality in the Illawarra region. Mine Water and the Environment, 1992, 11, 1-10.	0.9	2
70	A penalty finite difference model for Navier-Stokes flow problem in sedimentation basins. Advances in Water Resources, 1991, 14, 318-322.	1.7	1
71	Reaeration and Wind Induced Turbulence Shear in a Contained Water Body. , 1984, , 369-377.		7
72	A Model for the Prediction of Keaeration Coefficient in lakes from wind Velocity. Developments in Water Science, 1979, 11, 331-340.	0.1	4

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73	Fluoride, iron and manganese removal from brackish groundwater by solar powered vacuum membrane distillation. , 0, 137, 58-68.		3
74	Simulation of Water and Contaminant Transport Through Vadose Zone - Redistribution System. , 0, , .		1
75	Heat and mass transfer simulation and experimental evaluation of solar powered vacuum membrane. , 0, 59, 31-47.		0
76	Grey water treatment using a solar powered electro-coagulator and vacuum membrane distillation system. , 0, 85, 46-54.		1
77	Heat and mass transfer simulation and experimental evaluation of solar powered vacuum membrane distillation system. , 0, 59, 31-47.		0