

Shobha Muthukumaran

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,921
citations

361296

20
h-index

254106

43
g-index

53
all docs

53
docs citations

53
times ranked

2032
citing authors

#	ARTICLE	IF	CITATIONS
1	Green infrastructure practices for improvement of urban air quality. <i>Urban Forestry and Urban Greening</i> , 2017, 21, 34-47.	2.3	196
2	The optimisation of ultrasonic cleaning procedures for dairy fouled ultrafiltration membranes. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 29-35.	3.8	150
3	The use of ultrasonic cleaning for ultrafiltration membranes in the dairy industry. <i>Separation and Purification Technology</i> , 2004, 39, 99-107.	3.9	147
4	Mechanisms for the ultrasonic enhancement of dairy whey ultrafiltration. <i>Journal of Membrane Science</i> , 2005, 258, 106-114.	4.1	147
5	Effectiveness of green and cool roofs in mitigating urban heat island effects during a heatwave event in the city of Melbourne in southeast Australia. <i>Journal of Cleaner Production</i> , 2018, 197, 393-405.	4.6	146
6	APPLICATION OF ULTRASOUND IN MEMBRANE SEPARATION PROCESSES: A REVIEW. <i>Reviews in Chemical Engineering</i> , 2006, 22, .	2.3	103
7	The application of ultrasound to dairy ultrafiltration: The influence of operating conditions. <i>Journal of Food Engineering</i> , 2007, 81, 364-373.	2.7	86
8	Impact of climate change on urban heat island effect and extreme temperatures: a case study. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 172-186.	1.0	76
9	Quantification of potable water savings by residential water conservation and reuse – A case study. <i>Resources, Conservation and Recycling</i> , 2011, 55, 945-952.	5.3	71
10	Performance evaluation of different ultrafiltration membranes for the reclamation and reuse of secondary effluent. <i>Desalination</i> , 2011, 279, 383-389.	4.0	62
11	Problems in seawater industrial desalination processes and potential sustainable solutions: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2014, 13, 203-214.	3.9	60
12	Effectiveness of vegetated patches as Green Infrastructure in mitigating Urban Heat Island effects during a heatwave event in the city of Melbourne. <i>Weather and Climate Extremes</i> , 2019, 25, 100217.	1.6	51
13	Green Infrastructure as an Urban Heat Island Mitigation Strategy – A Review. <i>Water (Switzerland)</i> , 2020, 12, 3577.	1.2	51
14	Impact of ozonation and biological activated carbon filtration on ceramic membrane fouling. <i>Water Research</i> , 2017, 126, 308-318.	5.3	42
15	Evaluation of polyvinyl alcohol (PVA) loading in the PVA/titanium dioxide (TiO ₂) thin film coating on polyvinylidene fluoride (PVDF) membrane for the removal of textile dyes. <i>Chemosphere</i> , 2020, 257, 127144.	4.2	38
16	Impacts of future urban expansion on urban heat island effects during heatwave events in the city of Melbourne in southeast Australia. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 2586-2602.	1.0	34
17	Organic and nutrient reduction in a fish processing facility – A case study. <i>International Biodeterioration and Biodegradation</i> , 2013, 85, 563-570.	1.9	31
18	Comparison of the effects of ozone, biological activated carbon (BAC) filtration and combined ozone-BAC pre-treatments on the microfiltration of secondary effluent. <i>Separation and Purification Technology</i> , 2019, 215, 308-316.	3.9	31

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19	Multi Criteria Decision Making in Selecting Stormwater Management Green Infrastructure for Industrial areas Part 2: A Case Study with TOPSIS. <i>Water Resources Management</i> , 2018, 32, 4297-4312.	1.9	26
20	An evaluation of the performance of a WRF multi-physics ensemble for heatwave events over the city of Melbourne in southeast Australia. <i>Climate Dynamics</i> , 2018, 50, 2553-2586.	1.7	21
21	Multi Criteria Decision Making in Selecting Stormwater Management Green Infrastructure for Industrial Areas Part 1: Stakeholder Preference Elicitation. <i>Water Resources Management</i> , 2019, 33, 627-639.	1.9	21
22	Comparison of the performance of ceramic microfiltration and ultrafiltration membranes in the reclamation and reuse of secondary wastewater. <i>Desalination and Water Treatment</i> , 2014, 52, 670-677.	1.0	20
23	UV/TiO ₂ photocatalytic oxidation of recalcitrant organic matter: effect of salinity and pH. <i>Water Science and Technology</i> , 2014, 70, 437-443.	1.2	20
24	Mass balance for a novel RO/FO hybrid system in seawater desalination. <i>Journal of Membrane Science</i> , 2016, 501, 199-208.	4.1	20
25	Remediation of poly-and perfluoroalkyl substances (PFAS) contaminated soil using gas fractionation enhanced technology. <i>Science of the Total Environment</i> , 2022, 827, 154310.	3.9	19
26	Optimization of Green Infrastructure Practices in Industrial Areas for Runoff Management: A Review on Issues, Challenges and Opportunities. <i>Water (Switzerland)</i> , 2020, 12, 1024.	1.2	17
27	Polyvinylidene Fluoride and Titanium Dioxide Ultrafiltration Photocatalytic Membrane: Fabrication, Morphology, and Its Application in Textile Wastewater Treatment. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, .	0.7	16
28	Tailoring the Effects of Titanium Dioxide (TiO ₂) and Polyvinyl Alcohol (PVA) in the Separation and Antifouling Performance of Thin-Film Composite Polyvinylidene Fluoride (PVDF) Membrane. <i>Membranes</i> , 2021, 11, 241.	1.4	16
29	Effects of pavement texture and colour on Urban Heat Islands: An experimental study in tropical climate. <i>Urban Climate</i> , 2021, 40, 101024.	2.4	16
30	Optimal Sizing of Green Infrastructure Treatment Trains for Stormwater Management. <i>Water Resources Management</i> , 2016, 30, 5407-5420.	1.9	15
31	Hybrid Processes Combining Photocatalysis and Ceramic Membrane Filtration for Degradation of Humic Acids in Saline Water. <i>Membranes</i> , 2016, 6, 18.	1.4	14
32	Treatment of secondary effluent by sequential combination of photocatalytic oxidation with ceramic membrane filtration. <i>Environmental Science and Pollution Research</i> , 2018, 25, 5191-5202.	2.7	14
33	Ozone combined with ceramic membranes for water treatment: Impact on HO radical formation and mitigation of bromate. <i>Journal of Environmental Management</i> , 2020, 253, 109655.	3.8	14
34	Effect of oxidation with coagulation and ceramic microfiltration pre-treatment on reverse osmosis for desalination of recycled wastewater. <i>Desalination</i> , 2018, 431, 106-118.	4.0	13
35	Functionalized MoS ₂ nanosheets enabled nanofiltration membrane with enhanced permeance and fouling resistance. <i>Environmental Technology and Innovation</i> , 2022, 27, 102719.	3.0	13
36	Comparison between nanofiltration and forward osmosis in the treatment of dye solutions. <i>Desalination and Water Treatment</i> , 2015, 54, 853-861.	1.0	12

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37	2D nanosheet enabled thin film nanocomposite membranes for freshwater production – a review. <i>Materials Advances</i> , 2021, 2, 3519-3537.	2.6	11
38	Recovery of biomethane from a submerged anaerobic membrane bioreactor treating domestic wastewater blended with semi-solid organic wastes discharged from residential establishments. <i>Environmental Technology and Innovation</i> , 2022, 27, 102763.	3.0	8
39	Computing the effective diffusion coefficient of solutes in a multi-salts solutions during forward osmosis (FO) membrane filtration: Experiments and mathematical modelling. <i>Journal of Environmental Management</i> , 2018, 214, 215-223.	3.8	7
40	Technical advances on current research trends and explore the future scope on nutrient recovery from waste-streams: a review and bibliometric analysis from 2000 to 2020. <i>Environmental Science and Pollution Research</i> , 2022, 29, 49632-49650.	2.7	7
41	Comparison of fouling mechanisms in low-pressure membrane (MF/UF) filtration of secondary effluent. <i>Desalination and Water Treatment</i> , 2014, 52, 650-662.	1.0	6
42	Effect of feed temperature and membrane orientation on pre-treatment sludge volume reduction through forward osmosis. <i>Desalination and Water Treatment</i> , 2015, 54, 838-844.	1.0	6
43	Performance of Hybrid Photocatalytic-Ceramic Membrane System for the Treatment of Secondary Effluent. <i>Membranes</i> , 2017, 7, 20.	1.4	6
44	Evaluation of membrane cake fouling mechanism to estimate design parameters of a submerged AnMBR treating high strength industrial wastewater. <i>Journal of Environmental Management</i> , 2022, 301, 113867.	3.8	6
45	A preliminary study on the volume reduction of pre-treatment sludge in seawater desalination by forward osmosis. <i>Desalination and Water Treatment</i> , 2014, 52, 556-563.	1.0	5
46	Performance of reverse osmosis (RO) for water recovery from permeates of membrane bio-reactor (MBR). <i>Desalination and Water Treatment</i> , 2014, 52, 600-611.	1.0	4
47	A hybrid photocatalysis and ceramic membrane filtration process for humic acid degradation: Effect of pore size and transmembrane pressure. , 0, 69, 102-108.		4
48	Modeling water use in schools: A disaggregation approach. <i>Urban Water Journal</i> , 2016, 13, 875-881.	1.0	3
49	Evaluating the Feasibility of Forward Osmosis in Diluting RO Concentrate Using Pretreatment Backwash Water. <i>Membranes</i> , 2020, 10, 35.	1.4	3
50	Investigation of water quality in combined recycled water and stormwater systems. <i>Urban Water Journal</i> , 2018, 15, 478-487.	1.0	1
51	A Study on Pedestrian Pavement Thermal Performance with Reference to Associated Materials. , 2021, , .		1
52	Effect of Hybrid Photocatalysis and Ceramic Membrane Filtration Process for Humic Acid Degradation. , 2019, , 95-113.		0