

Gayathri Naidu

List of Publications by Year in descending order

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51
papers

2,590
citations

147726

31
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197736

49
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51
docs citations

51
times ranked

2226
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review on remediation, reuse, and resource recovery from acid mine drainage. <i>Environmental Pollution</i> , 2019, 247, 1110-1124.	3.7	276
2	A review of membrane wettability for the treatment of saline water deploying membrane distillation. <i>Desalination</i> , 2020, 479, 114312.	4.0	177
3	Mining valuable minerals from seawater: a critical review. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 37-53.	1.2	154
4	Organic fouling behavior in direct contact membrane distillation. <i>Desalination</i> , 2014, 347, 230-239.	4.0	134
5	Membrane distillation for wastewater reverse osmosis concentrate treatment with water reuse potential. <i>Journal of Membrane Science</i> , 2017, 524, 565-575.	4.1	122
6	Interaction of humic substances on fouling in membrane distillation for seawater desalination. <i>Chemical Engineering Journal</i> , 2015, 262, 946-957.	6.6	92
7	Hybrid membrane distillation: Resource, nutrient and energy recovery. <i>Journal of Membrane Science</i> , 2020, 599, 117832.	4.1	90
8	Removing nitrate from water using iron-modified Dowex 21K XLT ion exchange resin: Batch and fluidised-bed adsorption studies. <i>Separation and Purification Technology</i> , 2016, 158, 62-70.	3.9	84
9	A review on fouling of membrane distillation. <i>Desalination and Water Treatment</i> , 2016, 57, 10052-10076.	1.0	83
10	Selective sorption of rubidium by potassium cobalt hexacyanoferrate. <i>Separation and Purification Technology</i> , 2016, 163, 238-246.	3.9	79
11	3D printed spacers for organic fouling mitigation in membrane distillation. <i>Journal of Membrane Science</i> , 2019, 581, 331-343.	4.1	73
12	In-depth analyses of organic matters in a full-scale seawater desalination plant and an autopsy of reverse osmosis membrane. <i>Separation and Purification Technology</i> , 2016, 162, 171-179.	3.9	72
13	Rubidium extraction from seawater brine by an integrated membrane distillation-selective sorption system. <i>Water Research</i> , 2017, 123, 321-331.	5.3	70
14	Influence of feed/permeate velocity on scaling development in a direct contact membrane distillation. <i>Separation and Purification Technology</i> , 2014, 125, 291-300.	3.9	66
15	Microbial activity in biofilter used as a pretreatment for seawater desalination. <i>Desalination</i> , 2013, 309, 254-260.	4.0	60
16	Metals Recovery from Seawater Desalination Brines: Technologies, Opportunities, and Challenges. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7704-7712.	3.2	60
17	Experimental comparison of submerged membrane distillation configurations for concentrated brine treatment. <i>Desalination</i> , 2017, 420, 54-62.	4.0	58
18	Rubidium extraction using an organic polymer encapsulated potassium copper hexacyanoferrate sorbent. <i>Chemical Engineering Journal</i> , 2016, 306, 31-42.	6.6	56

#	ARTICLE	IF	CITATIONS
19	Membrane distillation crystallization for brine mining and zero liquid discharge: opportunities, challenges, and recent progress. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1202-1221.	1.2	53
20	Acid mine drainage treatment by integrated submerged membrane distillation-adsorption system. <i>Chemosphere</i> , 2019, 218, 955-965.	4.2	50
21	Experiments and modeling of a vacuum membrane distillation for high saline water. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2174-2183.	2.9	47
22	Recovery of sodium sulfate from seawater brine using fractional submerged membrane distillation crystallizer. <i>Chemosphere</i> , 2020, 238, 124641.	4.2	43
23	Effect of chemical and physical factors on the crystallization of calcium sulfate in seawater reverse osmosis brine. <i>Desalination</i> , 2018, 426, 78-87.	4.0	41
24	Enhancing the performance of membrane distillation and ion-exchange manganese oxide for recovery of water and lithium from seawater. <i>Chemical Engineering Journal</i> , 2020, 396, 125386.	6.6	41
25	Transport phenomena and fouling in vacuum enhanced direct contact membrane distillation: Experimental and modelling. <i>Separation and Purification Technology</i> , 2017, 172, 285-295.	3.9	39
26	Valuable rubidium extraction from potassium reduced seawater brine. <i>Journal of Cleaner Production</i> , 2018, 174, 1079-1088.	4.6	39
27	Submerged membrane adsorption bioreactor as a pretreatment in seawater desalination for biofouling control. <i>Bioresource Technology</i> , 2013, 141, 57-64.	4.8	36
28	Comparison of membrane distillation and freeze crystallizer as alternatives for reverse osmosis concentrate treatment. <i>Desalination</i> , 2018, 427, 10-18.	4.0	36
29	Selective copper recovery by membrane distillation and adsorption system from synthetic acid mine drainage. <i>Chemosphere</i> , 2020, 260, 127528.	4.2	33
30	Application of vacuum membrane distillation for small scale drinking water production. <i>Desalination</i> , 2014, 354, 53-61.	4.0	32
31	Fluoride removal from groundwater using direct contact membrane distillation (DCMD) and vacuum enhanced DCMD (VEDCMD). <i>Separation and Purification Technology</i> , 2017, 180, 125-132.	3.9	31
32	Fractional-submerged membrane distillation crystallizer (F-SMDC) for treatment of high salinity solution. <i>Desalination</i> , 2018, 440, 59-67.	4.0	30
33	Integrated submerged membrane distillation-adsorption system for rubidium recovery. <i>Separation and Purification Technology</i> , 2019, 218, 146-155.	3.9	28
34	A rapid bioluminescence-based test of assimilable organic carbon for seawater. <i>Desalination</i> , 2013, 317, 160-165.	4.0	27
35	Removal of selected pesticides from groundwater by membrane distillation. <i>Environmental Science and Pollution Research</i> , 2018, 25, 20336-20347.	2.7	27
36	Selective copper extraction by multi-modified mesoporous silica material, SBA-15. <i>Science of the Total Environment</i> , 2019, 697, 134070.	3.9	26

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37	Recovery of rare earth elements (Lu, Y) by adsorption using functionalized SBA-15 and MIL-101 (Cr). <i>Chemosphere</i> , 2021, 281, 130869.	4.2	21
38	Bacterial community structure in a biofilter used as a pretreatment for seawater desalination. <i>Ecological Engineering</i> , 2013, 60, 370-381.	1.6	17
39	Advances and challenges in metal ion separation from water. <i>Trends in Chemistry</i> , 2021, 3, 819-831.	4.4	14
40	Recovery of water and valuable metals using low pressure nanofiltration and sequential adsorption from acid mine drainage. <i>Environmental Technology and Innovation</i> , 2022, 28, 102753.	3.0	13
41	Effect of inorganic and organic compounds on the performance of fractional-submerged membrane distillation-crystallizer. <i>Journal of Membrane Science</i> , 2019, 582, 9-19.	4.1	11
42	Rubidium recovery using potassium cobalt hexacyanoferrate sorbent. <i>Desalination and Water Treatment</i> , 2016, 57, 26577-26585.	1.0	10
43	Selective Recovery of Rare Earth Elements from Mine Ore by Cr-MIL Metal-Organic Frameworks. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16896-16904.	3.2	9
44	Continuous and selective copper recovery by multi-modified and granulated SBA-15. <i>Chemosphere</i> , 2021, 271, 129820.	4.2	8
45	Optimizing the performance of sweeping gas membrane distillation for treating naturally heated saline groundwater. <i>Desalination</i> , 2022, 532, 115736.	4.0	7
46	4.3 Membrane Biofouling: Biofouling Assessment and Reduction Strategies in Seawater Reverse Osmosis Desalination. , 2017, , 48-71.		5
47	Fouling study on vacuum-enhanced direct contact membrane distillation for seawater desalination. <i>Desalination and Water Treatment</i> , 2016, 57, 10042-10051.	1.0	4
48	Performance evaluation of carbon nanotube enhanced membranes for SWRO pretreatment application. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 38, 123-131.	2.9	3
49	Proof of concept: Integrated membrane distillation-forward osmosis approaches water production in a low-temperature CO ₂ capture. <i>Environmental Technology and Innovation</i> , 2021, 22, 101508.	3.0	1
50	Performance of flocculation titanium salts for seawater reverse osmosis pretreatment. , 0, 98, 92-97.		1
51	Removing ammonium from contaminated water using Purolite C100E: batch, column, and household filter studies. <i>Environmental Science and Pollution Research</i> , 2022, 29, 16959-16972.	2.7	1