

Giorgio Dm Micale

List of Publications by Year in descending order

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164
papers

6,904
citations

53660

45
h-index

74018

75
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165
all docs

165
docs citations

165
times ranked

3415
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrodialysis for water desalination: A critical assessment of recent developments on process fundamentals, models and applications. <i>Desalination</i> , 2018, 434, 121-160.	4.0	369
2	Industrial waste heat: Estimation of the technically available resource in the EU per industrial sector, temperature level and country. <i>Applied Thermal Engineering</i> , 2018, 138, 207-216.	3.0	311
3	Numerical prediction of flow fields in baffled stirred vessels: A comparison of alternative modelling approaches. <i>Chemical Engineering Science</i> , 1998, 53, 3653-3684.	1.9	259
4	Electrodialysis Applications in Wastewater Treatment for Environmental Protection and Resources Recovery: A Systematic Review on Progress and Perspectives. <i>Membranes</i> , 2020, 10, 146.	1.4	212
5	Performance of the first reverse electrodialysis pilot plant for power production from saline waters and concentrated brines. <i>Journal of Membrane Science</i> , 2016, 500, 33-45.	4.1	196
6	Development of a Membrane Distillation module for solar energy seawater desalination. <i>Chemical Engineering Research and Design</i> , 2012, 90, 2101-2121.	2.7	163
7	Reverse electrodialysis with saline waters and concentrated brines: A laboratory investigation towards technology scale-up. <i>Journal of Membrane Science</i> , 2015, 492, 9-20.	4.1	160
8	Towards 1 kW power production in a reverse electrodialysis pilot plant with saline waters and concentrated brines. <i>Journal of Membrane Science</i> , 2017, 522, 226-236.	4.1	158
9	Large-eddy simulation of turbulent flow in an unbaffled stirred tank driven by a Rushton turbine. <i>Chemical Engineering Science</i> , 2005, 60, 2303-2316.	1.9	131
10	CFD prediction of concentration polarization phenomena in spacer-filled channels for reverse electrodialysis. <i>Journal of Membrane Science</i> , 2014, 468, 133-148.	4.1	130
11	Analysis of the bubbling behaviour of 2D gas solid fluidized beds. <i>Chemical Engineering Journal</i> , 2008, 140, 398-413.	6.6	129
12	A simulation tool for analysis and design of reverse electrodialysis using concentrated brines. <i>Chemical Engineering Research and Design</i> , 2015, 93, 441-456.	2.7	118
13	Reverse electrodialysis heat engine for sustainable power production. <i>Applied Energy</i> , 2017, 206, 1334-1353.	5.1	115
14	Experiments and CFD Predictions of Solid Particle Distribution in a Vessel Agitated with Four Pitched Blade Turbines. <i>Chemical Engineering Research and Design</i> , 2001, 79, 1005-1010.	2.7	111
15	CFD simulations of dense solid-liquid suspensions in baffled stirred tanks: Prediction of suspension curves. <i>Chemical Engineering Journal</i> , 2011, 178, 324-341.	6.6	98
16	Determination of limiting current density and current efficiency in electrodialysis units. <i>Desalination</i> , 2018, 445, 138-148.	4.0	98
17	Modelling the Reverse ElectroDialysis process with seawater and concentrated brines. <i>Desalination and Water Treatment</i> , 2012, 49, 404-424.	1.0	97
18	Modelling flow and heat transfer in spacer-filled membrane distillation channels using open source CFD code. <i>Desalination</i> , 2013, 311, 103-112.	4.0	95

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19	Flow and mass transfer in spacer-filled channels for reverse electro dialysis: a CFD parametrical study. <i>Journal of Membrane Science</i> , 2016, 497, 300-317.	4.1	94
20	Analysis of the bubbling behaviour of 2D gas solid fluidized beds. <i>Chemical Engineering Journal</i> , 2009, 148, 145-163.	6.6	87
21	A neural network-based optimizing control system for a seawater-desalination solar-powered membrane distillation unit. <i>Computers and Chemical Engineering</i> , 2013, 54, 79-96.	2.0	85
22	Assessment of methodologies and data used to calculate desalination costs. <i>Desalination</i> , 2017, 419, 8-19.	4.0	82
23	CFD Simulation of Particle Distribution in Stirred Vessels. <i>Chemical Engineering Research and Design</i> , 2000, 78, 435-444.	2.7	80
24	CFD Simulation of Particle Suspension Height in Stirred Vessels. <i>Chemical Engineering Research and Design</i> , 2004, 82, 1204-1213.	2.7	79
25	CFD simulations of dense solid-liquid suspensions in baffled stirred tanks: Prediction of the minimum impeller speed for complete suspension. <i>Chemical Engineering Journal</i> , 2012, 193-194, 234-255.	6.6	78
26	CFD simulations of dense solid-liquid suspensions in baffled stirred tanks: Prediction of solid particle distribution. <i>Chemical Engineering Journal</i> , 2013, 223, 875-890.	6.6	76
27	Coupling CFD with a one-dimensional model to predict the performance of reverse electro dialysis stacks. <i>Journal of Membrane Science</i> , 2017, 541, 595-610.	4.1	74
28	Exergy analysis of reverse electro dialysis. <i>Energy Conversion and Management</i> , 2018, 164, 588-602.	4.4	70
29	Dense solid-liquid off-bottom suspension dynamics: Simulation and experiment. <i>Chemical Engineering Research and Design</i> , 2009, 87, 587-597.	2.7	66
30	Particle suspension in top-covered unbaffled tanks. <i>Chemical Engineering Science</i> , 2010, 65, 3001-3008.	1.9	65
31	Reverse electro dialysis with NH_4HCO_3 -water systems for heat-to-power conversion. <i>Energy</i> , 2017, 137, 1293-1307.	4.5	64
32	CFD analysis of the fluid flow behavior in a reverse electro dialysis stack. <i>Desalination and Water Treatment</i> , 2012, 48, 390-403.	1.0	62
33	Exergy analysis and thermoeconomic cost accounting of a Combined Heat and Power steam cycle integrated with a Multi Effect Distillation-Thermal Vapour Compression desalination plant. <i>Energy Conversion and Management</i> , 2017, 149, 950-965.	4.4	60
34	CFD simulation of a membrane distillation module channel. <i>Desalination and Water Treatment</i> , 2009, 6, 177-183.	1.0	56
35	Prediction of flow fields in a dual-impeller stirred vessel. <i>AIChE Journal</i> , 1999, 45, 445-464.	1.8	55
36	A Thermochromic Liquid Crystals Image Analysis technique to investigate temperature polarization in spacer-filled channels for Membrane Distillation. <i>Journal of Membrane Science</i> , 2013, 447, 260-273.	4.1	55

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37	Long-run operation of a reverse electrodialysis system fed with wastewaters. <i>Journal of Environmental Management</i> , 2018, 217, 871-887.	3.8	55
38	CFD modelling of profiled-membrane channels for reverse electrodialysis. <i>Desalination and Water Treatment</i> , 2015, 55, 3404-3423.	1.0	53
39	Assessment of Particle Suspension Conditions in Stirred Vessels by Means of Pressure Gauge Technique. <i>Chemical Engineering Research and Design</i> , 2002, 80, 893-902.	2.7	51
40	Reverse electrodialysis performed at pilot plant scale: Evaluation of redox processes and simultaneous generation of electric energy and treatment of wastewater. <i>Water Research</i> , 2017, 125, 123-131.	5.3	50
41	CFD simulation of channels for direct and reverse electrodialysis. <i>Desalination and Water Treatment</i> , 2012, 48, 370-389.	1.0	49
42	REAPower: use of desalination brine for power production through reverse electrodialysis. <i>Desalination and Water Treatment</i> , 2015, 53, 3161-3169.	1.0	49
43	Multi-physical modelling of reverse electrodialysis. <i>Desalination</i> , 2017, 423, 52-64.	4.0	49
44	Influence of drag and turbulence modelling on CFD predictions of solid liquid suspensions in stirred vessels. <i>Chemical Engineering Research and Design</i> , 2014, 92, 1045-1063.	2.7	48
45	Solid-Liquid Suspensions in Top-Covered Unbaffled Vessels: Influence of Particle Size, Liquid Viscosity, Impeller Size, and Clearance. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9587-9599.	1.8	48
46	Reverse electrodialysis heat engine with multi-effect distillation: Exergy analysis and perspectives. <i>Energy Conversion and Management</i> , 2019, 194, 140-159.	4.4	48
47	Power Consumption in Uncovered Unbaffled Stirred Tanks: Influence of the Viscosity and Flow Regime. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 14998-15005.	1.8	46
48	Particle distribution in dilute solid liquid unbaffled tanks via a novel laser sheet and image analysis based technique. <i>Chemical Engineering Science</i> , 2013, 87, 341-358.	1.9	46
49	Modelling and cost analysis of hybrid systems for seawater desalination: Electromembrane pre-treatments for Reverse Osmosis. <i>Desalination</i> , 2019, 467, 175-195.	4.0	46
50	Towards the first proof of the concept of a Reverse ElectroDialysis - Membrane Distillation Heat Engine. <i>Desalination</i> , 2019, 453, 77-88.	4.0	46
51	A hierarchical model for novel schemes of electrodialysis desalination. <i>Desalination</i> , 2019, 465, 79-93.	4.0	43
52	Thermolytic reverse electrodialysis heat engine: model development, integration and performance analysis. <i>Energy Conversion and Management</i> , 2019, 189, 1-13.	4.4	43
53	Novel solutions for closed-loop reverse electrodialysis: Thermodynamic characterisation and perspective analysis. <i>Energy</i> , 2019, 166, 674-689.	4.5	42
54	Application of reverse electrodialysis to site-specific types of saline solutions: A techno-economic assessment. <i>Energy</i> , 2019, 181, 532-547.	4.5	41

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55	Experimental and computational investigation of heat transfer in channels filled by woven spacers. <i>International Journal of Heat and Mass Transfer</i> , 2017, 104, 163-177.	2.5	40
56	CHP (combined heat and power) retrofit for a large MED-TVC (multiple effect distillation along with) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 options under the current legislative EU framework. <i>Energy</i> , 2016, 115, 1548-1559.	4.5	39
57	Coupling electrodialysis desalination with photovoltaic and wind energy systems for energy storage: Dynamic simulations and control strategy. <i>Energy Conversion and Management</i> , 2020, 216, 112940.	4.4	39
58	Membrane distillation heat transfer enhancement by CFD analysis of internal module geometry. <i>Desalination and Water Treatment</i> , 2011, 25, 195-209.	1.0	38
59	Ionic shortcut currents via manifolds in reverse electrodialysis stacks. <i>Desalination</i> , 2020, 485, 114450.	4.0	38
60	CFD prediction of scalar transport in thin channels for reverse electrodialysis. <i>Desalination and Water Treatment</i> , 2015, 55, 3424-3445.	1.0	36
61	Effect of different aqueous solutions of pure salts and salt mixtures in reverse electrodialysis systems for closed-loop applications. <i>Journal of Membrane Science</i> , 2018, 551, 315-325.	4.1	36
62	Investigation of heat transfer in spacer-filled channels by experiments and direct numerical simulations. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 1190-1205.	2.5	35
63	Boosting the performance of a Reverse Electrodialysis " Multi-Effect Distillation Heat Engine by novel solutions and operating conditions. <i>Applied Energy</i> , 2019, 253, 113489.	5.1	35
64	Integrated production of fresh water, sea salt and magnesium from sea water. <i>Desalination and Water Treatment</i> , 2012, 49, 390-403.	1.0	34
65	On the modelling of an Acid/Base Flow Battery: An innovative electrical energy storage device based on pH and salinity gradients. <i>Applied Energy</i> , 2020, 277, 115576.	5.1	34
66	A critical assessment of desalination operations in Sicily. <i>Desalination</i> , 2005, 182, 1-12.	4.0	33
67	On the bubbling dynamics of binary mixtures of powders in 2D gas-solid fluidized beds. <i>Powder Technology</i> , 2012, 231, 21-34.	2.1	32
68	The first operating thermolytic reverse electrodialysis heat engine. <i>Journal of Membrane Science</i> , 2020, 595, 117522.	4.1	32
69	Pressure drop at low Reynolds numbers in woven-spacer-filled channels for membrane processes: CFD prediction and experimental validation. , 0, 61, 170-182.		32
70	Reactive crystallisation process for magnesium recovery from concentrated brines. <i>Desalination and Water Treatment</i> , 2015, 55, 2377-2388.	1.0	31
71	Performance of a RED system with ammonium hydrogen carbonate solutions. <i>Desalination and Water Treatment</i> , 2016, 57, 23007-23018.	1.0	31
72	On the assessment of power consumption and critical impeller speed in vortexing unbaffled stirred tanks. <i>Chemical Engineering Research and Design</i> , 2017, 123, 99-110.	2.7	31

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73	Effect of ion exchange capacity and water uptake on hydroxide transport in PSU-TMA membranes: A DFT and molecular dynamics study. <i>Journal of Membrane Science</i> , 2020, 599, 117837.	4.1	31
74	On some issues in the computational modelling of spacer-filled channels for membrane distillation. <i>Desalination</i> , 2017, 411, 101-111.	4.0	30
75	Direct numerical simulations of creeping to early turbulent flow in unbaffled and baffled stirred tanks. <i>Chemical Engineering Science</i> , 2018, 192, 161-175.	1.9	30
76	Experimental investigation and modeling of diffusion dialysis for HCl recovery from waste pickling solution. <i>Journal of Environmental Management</i> , 2019, 235, 202-212.	3.8	30
77	Towards the implementation of circular economy in the water softening industry: A technical, economic and environmental analysis. <i>Journal of Cleaner Production</i> , 2020, 255, 120291.	4.6	30
78	A comprehensive multi-scale model for bipolar membrane electrodialysis (BMED). <i>Chemical Engineering Journal</i> , 2022, 437, 135317.	6.6	30
79	Experimental analysis of bubble size distributions in 2D gas fluidized beds. <i>Chemical Engineering Science</i> , 2010, 65, 4782-4791.	1.9	27
80	Performance Analysis of a RED-MED Salinity Gradient Heat Engine. <i>Energies</i> , 2018, 11, 3385.	1.6	27
81	A dynamic model for MED-TVC transient operation. <i>Desalination</i> , 2017, 413, 234-257.	4.0	26
82	Evaluation of the Economic and Environmental Performance of Low-Temperature Heat to Power Conversion using a Reverse Electrodialysis “ Multi-Effect Distillation System. <i>Energies</i> , 2019, 12, 3206.	1.6	26
83	Optimization of net power density in Reverse Electrodialysis. <i>Energy</i> , 2019, 181, 576-588.	4.5	26
84	A pilot-plant for the selective recovery of magnesium and calcium from waste brines. <i>Desalination</i> , 2021, 517, 115231.	4.0	26
85	Analysis and simulation of scale-up potentials in reverse electrodialysis. <i>Desalination and Water Treatment</i> , 2015, 55, 3391-3403.	1.0	25
86	Energy Harvesting by Waste Acid/Base Neutralization via Bipolar Membrane Reverse Electrodialysis. <i>Energies</i> , 2020, 13, 5510.	1.6	25
87	Electrodialysis with asymmetrically profiled membranes: Influence of profiles geometry on desalination performance and limiting current phenomena. <i>Desalination</i> , 2021, 506, 115001.	4.0	25
88	Techno-economic assessment of multi-effect distillation process for the treatment and recycling of ion exchange resin spent brines. <i>Desalination</i> , 2019, 456, 38-52.	4.0	24
89	PLA-based functionally graded laminates for tunable controlled release of carvacrol obtained by combining electrospinning with solvent casting. <i>Reactive and Functional Polymers</i> , 2020, 148, 104490.	2.0	24
90	Water desalination by capacitive electrodialysis: Experiments and modelling. <i>Desalination</i> , 2020, 473, 114150.	4.0	23

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91	Diffusion Dialysis for Separation of Hydrochloric Acid, Iron and Zinc Ions from Highly Concentrated Pickling Solutions. <i>Membranes</i> , 2020, 10, 129.	1.4	23
92	CFD Predictions of Sufficient Suspension Conditions in Solid-Liquid Agitated Tanks. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2012, 13, 427-443.	0.4	21
93	Particle Suspension in Vortexing Unbaffled Stirred Tanks. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7535-7547.	1.8	21
94	An experimental study for the characterization of fluid dynamics and heat transport within the spacer-filled channels of membrane distillation modules. <i>Desalination</i> , 2018, 430, 136-146.	4.0	21
95	Solids Suspension in Three-Phase Stirred Tanks. <i>Chemical Engineering Research and Design</i> , 2000, 78, 319-326.	2.7	20
96	Dense jet modelling applied to the design of dense effluent diffusers. <i>Desalination</i> , 2004, 167, 459-468.	4.0	20
97	Membrane Deformation and Its Effects on Flow and Mass Transfer in the Electromembrane Processes. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1840.	1.8	20
98	An integrated approach for the HCl and metals recovery from waste pickling solutions: pilot plant and design operations. <i>Chemical Engineering Research and Design</i> , 2021, 168, 383-396.	2.7	20
99	Seawater Desalination for Freshwater Production. <i>Green Energy and Technology</i> , 2009, , 1-15.	0.4	19
100	Simulation of a regeneration plant for spent pickling solutions via spray roasting. <i>Desalination and Water Treatment</i> , 2016, 57, 23405-23419.	1.0	18
101	Design of a novel membrane-integrated waste acid recovery process from pickling solution. <i>Journal of Cleaner Production</i> , 2019, 236, 117623.	4.6	18
102	Bipolar membrane reverse electrodialysis for the sustainable recovery of energy from pH gradients of industrial wastewater: Performance prediction by a validated process model. <i>Journal of Environmental Management</i> , 2021, 287, 112319.	3.8	18
103	Vibration-based identification of mechanical properties of orthotropic arbitrarily shaped plates: Numerical and experimental assessment. <i>Composites Part B: Engineering</i> , 2018, 150, 212-225.	5.9	17
104	Combined membrane and thermal desalination processes for the treatment of ion exchange resins spent brine. <i>Applied Energy</i> , 2019, 254, 113699.	5.1	17
105	Techno-economic analysis of integrated processes for the treatment and valorisation of neutral coal mine effluents. <i>Journal of Cleaner Production</i> , 2020, 270, 122472.	4.6	17
106	Reverse electrodialysis. , 2016, , 135-180.		15
107	Eulerian-Lagrangian modeling and computational fluid dynamics simulation of wire mesh demisters in MSF plants. <i>Desalination</i> , 2016, 385, 148-157.	4.0	15
108	Potential applications of salinity gradient power-heat engines for recovering low-temperature waste heat in cogeneration plants. <i>Energy Conversion and Management</i> , 2021, 237, 114135.	4.4	15

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109	CFD simulations of early- to fully-turbulent conditions in unbaffled and baffled vessels stirred by a Rushton turbine. <i>Chemical Engineering Research and Design</i> , 2021, 171, 36-47.	2.7	15
110	Diffusion dialysis for the treatment of H ₂ SO ₄ -CuSO ₄ solutions from electroplating plants: Ions membrane transport characterization and modelling. <i>Separation and Purification Technology</i> , 2021, 266, 118215.	3.9	15
111	A brine evaporative cooler/concentrator for autonomous thermal desalination units. <i>Desalination and Water Treatment</i> , 2011, 31, 269-278.	1.0	14
112	New considerations for modelling a MED-TVC plant under dynamic conditions. <i>Desalination</i> , 2019, 452, 94-113.	4.0	14
113	A Novel Ionic Exchange Membrane Crystallizer to Recover Magnesium Hydroxide from Seawater and Industrial Brines. <i>Membranes</i> , 2020, 10, 303.	1.4	14
114	CFD prediction of flow, heat and mass transfer in woven spacer-filled channels for membrane processes. <i>International Journal of Heat and Mass Transfer</i> , 2021, 173, 121246.	2.5	14
115	Analysis of particles size distributions in Mg(OH) ₂ precipitation from highly concentrated MgCl ₂ solutions. <i>Powder Technology</i> , 2022, 398, 117106.	2.1	14
116	Investigation of flashing phenomena in MSF chambers. <i>Desalination</i> , 2007, 216, 183-195.	4.0	13
117	Assessment of temperature polarization in membrane distillation channels by liquid crystal thermography. <i>Desalination and Water Treatment</i> , 2015, 55, 2747-2765.	1.0	13
118	Salinity gradient energy. , 2016, , 1-17.		13
119	A simulation tool for ion exchange membrane crystallization of magnesium hydroxide from waste brine. <i>Chemical Engineering Research and Design</i> , 2021, 173, 193-205.	2.7	13
120	Towards sustainable production of minerals and chemicals through seawater brine treatment using Eutectic freeze crystallization and Electrodialysis with bipolar membranes. <i>Journal of Cleaner Production</i> , 2022, 368, 133143.	4.6	13
121	Efficiency increase in thermal desalination plants by matching thermal and solar distillation: theoretical analysis. <i>Desalination</i> , 2005, 183, 127-136.	4.0	12
122	Characterization of pressure retarded osmosis lab-scale systems. <i>Desalination and Water Treatment</i> , 2016, 57, 22994-23006.	1.0	12
123	Exergy analysis of electrodialysis for water desalination: Influence of irreversibility sources. <i>Energy Conversion and Management</i> , 2022, 258, 115314.	4.4	11
124	A 2-D model of electrodialysis stacks including the effects of membrane deformation. <i>Desalination</i> , 2021, 500, 114835.	4.0	10
125	A porous media CFD model for the simulation of hemodialysis in hollow fiber membrane modules. <i>Journal of Membrane Science</i> , 2022, 646, 120219.	4.1	10
126	Mass transfer in ducts with transpiring walls. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 1074-1086.	2.5	9

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127	Performance comparison between overlapped and woven spacers for membrane distillation. , 0, 69, 178-189.		9
128	Linear stability analysis of gas-fluidized beds for the prediction of incipient bubbling conditions. Chemical Engineering Journal, 2010, 157, 489-500.	6.6	8
129	Coupling sustainable energy with membrane distillation processes for seawater desalination. , 2010, , .		8
130	Eulerian-Eulerian modelling and computational fluid dynamics simulation of wire mesh demisters in MSF plants. Engineering Computations, 2014, 31, 1242-1260.	0.7	8
131	CFD Investigation of Spacer-Filled Channels for Membrane Distillation. Membranes, 2019, 9, 91.	1.4	8
132	A mathematical tool for describing the behaviour of a dense effluent discharge. Desalination and Water Treatment, 2009, 2, 303-318.	1.0	7
133	Arbitrarily shaped plates analysis via Line Element-Less Method (LEM). Thin-Walled Structures, 2018, 133, 235-248.	2.7	7
134	Pressure-Induced Deformation of Pillar-Type Profiled Membranes and Its Effects on Flow and Mass Transfer. Computation, 2019, 7, 32.	1.0	7
135	Modelling and Simulation of Gas-liquid Hydrodynamics in a Rectangular Air-lift Reactor. International Journal of Chemical Reactor Engineering, 2013, 11, 667-674.	0.6	6
136	CFD prediction of shell-side flow and mass transfer in regular fiber arrays. International Journal of Heat and Mass Transfer, 2021, 168, 120855.	2.5	6
137	Modeling of Magnetic-Field-Assisted Fluidization: Model Development and CFD Simulation of Magnetically Stabilized Fluidized Beds. KONA Powder and Particle Journal, 2015, 32, 217-226.	0.9	5
138	Salinity gradient engines. , 2016, , 219-256.		5
139	Thermodynamic, Exergy, and Thermo-economic analysis of Multiple Effect Distillation Processes. , 2018, , 445-489.		5
140	Fluid-Structure Interaction and Flow Redistribution in Membrane-Bounded Channels. Energies, 2019, 12, 4259.	1.6	5
141	On the Reduction of Power Consumption in Vortexing Unbaffled Bioslurry Reactors. Industrial & Engineering Chemistry Research, 2020, 59, 8037-8045.	1.8	5
142	Dynamic response of equivalent orthotropic plate model for stiffened plate: numerical-experimental assessment. Procedia Engineering, 2017, 199, 1423-1428.	1.2	4
143	Unsteadiness and transition to turbulence in woven spacer filled channels for Membrane Distillation. Journal of Physics: Conference Series, 2017, 796, 012003.	0.3	4
144	Electrodialysis for wastewater treatment-Part I: Fundamentals and municipal effluents. , 2020, , 141-192.		4

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145	Regeneration units for thermolytic salts applications in water & power production: State of the art, experimental and modelling assessment. <i>Desalination</i> , 2021, 504, 114965.	4.0	4
146	A full-atom multiscale modelling for sodium chloride diffusion in anion exchange membranes. <i>Journal of Membrane Science</i> , 2021, 637, 119646.	4.1	4
147	Recovery of zinc from spent pickling solutions by liquid-liquid extraction using TBP. , 0, 157, 110-117.		4
148	Economic Benefits of Waste Pickling Solution Valorization. <i>Membranes</i> , 2022, 12, 114.	1.4	4
149	CFD Modelling of the Demister in the Multi Stage Flash Desalination plant. <i>Computer Aided Chemical Engineering</i> , 2011, , 1618-1622.	0.3	2
150	Reverse Electrodialysis: Applications to Different Case Studies. , 2018, , .		2
151	The REAPower Project. , 2019, , 407-448.		2
152	Electrodialysis for wastewater treatmentâ€™Part II: Industrial effluents. , 2020, , 195-241.		2
153	Some Numerical Remarks on a Meshless Approximation Method. , 2016, , .		1
154	Analysis of Rectangular Orthotropic Membranes for Mechanical Properties Identification through Load-Displacement Data. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, 04021028.	1.6	1
155	Reverse electrodialysis heat engine (REDHE). , 2022, , 127-162.		1
156	DYNAMIC MODELING TOOLS FOR SOLAR POWERED DESALINATION PROCESSES DURING TRANSIENT OPERATIONS. , 2007, , 43-67.		0
157	Gas-Fluidization Characteristics of Binary Mixtures of Particles in 2D Geometry. <i>International Journal of Chemical Reactor Engineering</i> , 2012, 10, .	0.6	0
158	Study of bubbling fluidization dynamics via Digital Image Analysis Technique. , 2008, , .		0
159	Temperature Distribution Analysis in Spacer Filled Channels for Membrane Distillation. , 2012, , .		0
160	Modelling Turbulent Inter-Phase Drag in Mechanically Stirred Solid-Liquid Suspensions. , 2012, , .		0
161	Salinity gradient heat engines: An innovative concept for waste heat valorization. , 2022, , 1-32.		0
162	Salt extraction regeneration technologies. , 2022, , 197-227.		0

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163	Application of computational fluid dynamics technique in membrane distillation processes. , 2022, , 161-208.		0
164	Application of computational fluid dynamics technique in electro dialysis/reverse electro dialysis processes. , 2022, , 81-160.		0