Luigi Gurreri

List of Publications by Year in descending order

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LUICI CUDDEDI

#	Article	IF	CITATIONS
1	Application of computational fluid dynamics technique in membrane distillation processes. , 2022, , 161-208.		0
2	Coupling of electromembrane processes with reverse osmosis for seawater desalination: Pilot plant demonstration and testing. Desalination, 2022, 526, 115541.	4.0	15
3	A porous media CFD model for the simulation of hemodialysis in hollow fiber membrane modules. Journal of Membrane Science, 2022, 646, 120219.	4.1	10
4	Application of computational fluid dynamics technique in electrodialysis/reverse electrodialysis processes. , 2022, , 81-160.		0
5	Performance Comparison of Alternative Hollow-Fiber Modules for Hemodialysis by Means of a CFD-Based Model. Membranes, 2022, 12, 118.	1.4	6
6	Exergy analysis of electrodialysis for water desalination: Influence of irreversibility sources. Energy Conversion and Management, 2022, 258, 115314.	4.4	11
7	A comprehensive multi-scale model for bipolar membrane electrodialysis (BMED). Chemical Engineering Journal, 2022, 437, 135317.	6.6	30
8	Electromembrane Processes: Experiments and Modelling. Membranes, 2021, 11, 149.	1.4	2
9	A 2-D model of electrodialysis stacks including the effects of membrane deformation. Desalination, 2021, 500, 114835.	4.0	10
10	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
11	Bipolar membrane reverse electrodialysis for the sustainable recovery of energy from pH gradients of industrial wastewater: Performance prediction by a validated process model. Journal of Environmental Management, 2021, 287, 112319.	3.8	18
12	Electrodialysis with asymmetrically profiled membranes: Influence of profiles geometry on desalination performance and limiting current phenomena. Desalination, 2021, 506, 115001.	4.0	25
13	CFD prediction of flow, heat and mass transfer in woven spacer-filled channels for membrane processes. International Journal of Heat and Mass Transfer, 2021, 173, 121246.	2.5	14
14	Water desalination by capacitive electrodialysis: Experiments and modelling. Desalination, 2020, 473, 114150.	4.0	23
15	On the modelling of an Acid/Base Flow Battery: An innovative electrical energy storage device based on pH and salinity gradients. Applied Energy, 2020, 277, 115576.	5.1	34
16	Electrodialysis Applications in Wastewater Treatment for Environmental Protection and Resources Recovery: A Systematic Review on Progress and Perspectives. Membranes, 2020, 10, 146.	1.4	212
17	Energy Harvesting by Waste Acid/Base Neutralization via Bipolar Membrane Reverse Electrodialysis. Energies, 2020, 13, 5510.	1.6	25
18	The Acid–Base Flow Battery: Sustainable Energy Storage via Reversible Water Dissociation with Bipolar Membranes. Membranes, 2020, 10, 409.	1.4	30

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19	Ionic shortcut currents via manifolds in reverse electrodialysis stacks. Desalination, 2020, 485, 114450.	4.0	38
20	Electrodialysis for wastewater treatment—Part I: Fundamentals and municipal effluents. , 2020, , 141-192.		4
21	Pressure-Induced Deformation of Pillar-Type Profiled Membranes and Its Effects on Flow and Mass Transfer. Computation, 2019, 7, 32.	1.0	7
22	Modelling and cost analysis of hybrid systems for seawater desalination: Electromembrane pre-treatments for Reverse Osmosis. Desalination, 2019, 467, 175-195.	4.0	46
23	Fluid–Structure Interaction and Flow Redistribution in Membrane-Bounded Channels. Energies, 2019, 12, 4259.	1.6	5
24	Optimization of net power density in Reverse Electrodialysis. Energy, 2019, 181, 576-588.	4.5	26
25	A hierarchical model for novel schemes of electrodialysis desalination. Desalination, 2019, 465, 79-93.	4.0	43
26	Membrane Deformation and Its Effects on Flow and Mass Transfer in the Electromembrane Processes. International Journal of Molecular Sciences, 2019, 20, 1840.	1.8	20
27	The REAPower Project. , 2019, , 407-448.		2
28	Mass transfer in ducts with transpiring walls. International Journal of Heat and Mass Transfer, 2019, 132, 1074-1086.	2.5	9
29	Electrodialysis for water desalination: A critical assessment of recent developments on process fundamentals, models and applications. Desalination, 2018, 434, 121-160.	4.0	369
30	Determination of limiting current density and current efficiency in electrodialysis units. Desalination, 2018, 445, 138-148.	4.0	98
31	On some issues in the computational modelling of spacer-filled channels for membrane distillation. Desalination, 2017, 411, 101-111.	4.0	30
32	Multi-physical modelling of reverse electrodialysis. Desalination, 2017, 423, 52-64.	4.0	49
33	Coupling CFD with a one-dimensional model to predict the performance of reverse electrodialysis stacks. Journal of Membrane Science, 2017, 541, 595-610.	4.1	74
34	Reverse electrodialysis. , 2016, , 135-180.		15
35	Flow and mass transfer in spacer-filled channels for reverse electrodialysis: a CFD parametrical study. Journal of Membrane Science, 2016, 497, 300-317.	4.1	94
36	Assessment of temperature polarization in membrane distillation channels by liquid crystal thermography. Desalination and Water Treatment, 2015, 55, 2747-2765.	1.0	13

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37	CFD modelling of profiled-membrane channels for reverse electrodialysis. Desalination and Water Treatment, 2015, 55, 3404-3423.	1.0	53
38	CFD prediction of concentration polarization phenomena in spacer-filled channels for reverse electrodialysis. Journal of Membrane Science, 2014, 468, 133-148.	4.1	130
39	CFD analysis of the fluid flow behavior in a reverse electrodialysis stack. Desalination and Water Treatment, 2012, 48, 390-403.	1.0	62
40	Electrochemical abatement of chloroethanes in water: Reduction, oxidation and combined processes. Electrochimica Acta, 2010, 55, 701-708.	2.6	65
41	Pressure drop at low Reynolds numbers in woven-spacer-filled channels for membrane processes: CFD prediction and experimental validation. , 0, 61, 170-182.		32
42	Performance comparison between overlapped and woven spacers for membrane distillation. , 0, 69, 178-189.		9