

Raquel Salcedo-DÃ-az

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

621
citations

623734

14
h-index

580821

25
g-index

31
all docs

31
docs citations

31
times ranked

635
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-objective optimization of solar Rankine cycles coupled with reverse osmosis desalination considering economic and life cycle environmental concerns. <i>Desalination</i> , 2012, 286, 358-371.	8.2	106
2	Shale gas flowback water desalination: Single vs multiple-effect evaporation with vapor recompression cycle and thermal integration. <i>Desalination</i> , 2017, 404, 230-248.	8.2	76
3	Water Network Optimization with Wastewater Regeneration Models. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 17680-17695.	3.7	51
4	Visualization and modeling of the polarization layer in crossflow reverse osmosis in a slit-type channel. <i>Journal of Membrane Science</i> , 2014, 456, 21-30.	8.2	40
5	Optimal Pretreatment System of Flowback Water from Shale Gas Production. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4386-4398.	3.7	34
6	Optimization of multistage membrane distillation system for treating shale gas produced water. <i>Desalination</i> , 2019, 460, 15-27.	8.2	32
7	Process optimization for zero-liquid discharge desalination of shale gas flowback water under uncertainty. <i>Journal of Cleaner Production</i> , 2017, 164, 1219-1238.	9.3	31
8	Systematic Tools for the Conceptual Design of Inherently Safer Chemical Processes. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7301-7313.	3.7	28
9	Experimental study of concentration polarization in a crossflow reverse osmosis system using Digital Holographic Interferometry. <i>Desalination</i> , 2010, 257, 36-45.	8.2	26
10	Measurements by holographic interferometry of concentration profiles in dead-end ultrafiltration of polyethylene glycol solutions. <i>Journal of Membrane Science</i> , 2004, 229, 187-197.	8.2	25
11	Holistic Planning Model for Sustainable Water Management in the Shale Gas Industry. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 13131-13143.	3.7	22
12	Visualization and modelling of the polarization layer and a reversible adsorption process in PEG-10000 dead-end ultrafiltration. <i>Journal of Membrane Science</i> , 2009, 342, 279-290.	8.2	20
13	Measurement of Concentration Profiles by Holographic Interferometry and Modelling in Unstirred Batch Reverse Osmosis. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 7219-7231.	3.7	16
14	Diffusion studies in polarized reverse osmosis processes by holographic interferometry. <i>Optics and Lasers in Engineering</i> , 2008, 46, 877-887.	3.8	15
15	Thermo-economic and environmental optimization of a solar-driven zero-liquid discharge system for shale gas wastewater desalination. <i>Desalination</i> , 2021, 511, 115098.	8.2	13
16	A cooperative game strategy for designing sustainable supply chains under the emissions trading system. <i>Journal of Cleaner Production</i> , 2021, 285, 124845.	9.3	12
17	Economic and environmental strategic water management in the shale gas industry: Application of cooperative game theory. <i>AIChE Journal</i> , 2019, 65, e16725.	3.6	10
18	Velocity profiles and circulation in Stefan-diffusion. <i>Chemical Engineering Science</i> , 2008, 63, 4685-4693.	3.8	9

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19	Multistage Membrane Distillation for the Treatment of Shale Gas Flowback Water: Multi-Objective Optimization under Uncertainty. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 571-576.	0.5	8
20	Buoyancy Effects in Dead-End Reverse Osmosis: Visualization by Holographic Interferometry. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 1794-1802.	3.7	6
21	Optimal Design of a Hybrid Membrane System Combining Reverse and Forward Osmosis for Seawater Desalination. <i>Computer Aided Chemical Engineering</i> , 2014, , 1399-1404.	0.5	6
22	Multi-Objective Optimization of Renewable Energy-Driven Desalination Systems. <i>Computer Aided Chemical Engineering</i> , 2017, , 499-504.	0.5	6
23	Incorporating CO ₂ emission trading in the optimal design and planning of chemical supply chain networks under uncertainty. <i>Computer Aided Chemical Engineering</i> , 2012, 30, 127-131.	0.5	5
24	Combining Forward and Reverse Osmosis for Shale Gas Wastewater Treatment to Minimize Cost and Freshwater Consumption. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 2725-2730.	0.5	5
25	Optimal Shale Gas Flowback Water Desalination under Correlated Data Uncertainty. <i>Computer Aided Chemical Engineering</i> , 2017, , 943-948.	0.5	5
26	Optimization of solar assisted reverse osmosis plants considering economic and environmental concerns. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1296-1300.	0.5	4
27	Digital holographic interferometry visualization of PEG-10000 accumulation on an acetate cellulose membrane: assessment of polarization layer and adsorption phenomenon. <i>Desalination and Water Treatment</i> , 2012, 42, 49-56.	1.0	4
28	Buoyancy effect on the ultrafiltration of PEG 10,000. Visualization by digital holographic interferometry. <i>AIChE Journal</i> , 2012, 58, 3810-3817.	3.6	2
29	Handling of Uncertainty in Life Cycle Inventory by Correlated Multivariate Lognormal Distributions: Application to the Design of Supply Chain Networks. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 1075-1080.	0.5	2
30	Systematic Methods for Inherently Safer Process Design: Comparison among Inherent Safety Indexes by Dimensionality Reduction. <i>Computer Aided Chemical Engineering</i> , 2017, , 1237-1242.	0.5	2
31	Digital holographic interferometry visualization of PEG-10000 accumulation on an acetate cellulose membrane: assessment of polarization layer and adsorption phenomenon. , 0, 42, 49-56.		0