

JosÃ©-Francisco PÃ©rez-Calvo

List of Publications by Year in descending order

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13
papers

454
citations

1162367

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391
citing authors

#	ARTICLE	IF	CITATIONS
1	Techno-economic assessment of post-combustion CO ₂ capture using aqueous piperazine at different flue gas compositions and flowrates via a general optimization methodology. <i>International Journal of Greenhouse Gas Control</i> , 2022, 114, 103587.	2.3	14
2	Rigorous rate-based model for CO ₂ capture via monoethanolamine-based solutions: effect of kinetic models, mass transfer, and holdup correlations on prediction accuracy. <i>Separation Science and Technology</i> , 2021, 56, 1491-1509.	1.3	6
3	Density and Viscosity of Aqueous (Ammonia + Carbon Dioxide) Solutions at Atmospheric Pressure and Temperatures between 278.15 and 318.15 K. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 1787-1801.	1.0	1
4	Postcombustion CO ₂ Capture: A Comparative Techno-Economic Assessment of Three Technologies Using a Solvent, an Adsorbent, and a Membrane. <i>ACS Engineering Au</i> , 2021, 1, 50-72.	2.3	70
5	Optimal design of an MDEA CO_2 capture plant for low-carbon hydrogen production – A rigorous process optimization approach. <i>Separation and Purification Technology</i> , 2021, 279, 119715.	1.9	21
6	Advanced configurations for post-combustion CO ₂ capture processes using an aqueous ammonia solution as absorbent. <i>Separation and Purification Technology</i> , 2021, 274, 118959.	3.9	18
7	A methodology for the heuristic optimization of solvent-based CO ₂ capture processes when applied to new flue gas compositions: A case study of the Chilled Ammonia Process for capture in cement plants. <i>Chemical Engineering Science: X</i> , 2020, 8, 100074.	1.5	3
8	Comparison of Technologies for CO ₂ Capture from Cement Production – Part 1: Technical Evaluation. <i>Energies</i> , 2019, 12, 559.	1.6	137
9	Comparison of Technologies for CO ₂ Capture from Cement Production – Part 2: Cost Analysis. <i>Energies</i> , 2019, 12, 542.	1.6	135
10	On the optimal design of forward osmosis desalination systems with NH ₃ –CO ₂ –H ₂ O solutions. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 811-829.	1.2	7
11	Application of a Chilled Ammonia-based Process for CO ₂ Capture to Cement Plants. <i>Energy Procedia</i> , 2017, 114, 6197-6205.	1.8	12
12	Solid Formation in Ammonia-based Processes for CO ₂ Capture – Turning a Challenge into an Opportunity. <i>Energy Procedia</i> , 2017, 114, 866-872.	1.8	8
13	Determination of kinetics in batch cooling crystallization processes – A sequential parameter estimation approach. <i>AIChE Journal</i> , 2016, 62, 3992-4012.	1.8	18