Yann Lemoullec

List of Publications by Year
in descending order

38 papers	1,764 citations	411340 20 h-index	406436 35 g-index
39 all docs	39 docs citations	39 times ranked	1943 citing authors

#	Article	IF	Citations
1	Dynamic modeling of molten salt parabolic trough loop. AIP Conference Proceedings, 2020, , .	0.3	0
2	Dynamic modeling and transient analysis of a recompression supercritical CO2 Brayton cycle. AIP Conference Proceedings, 2020, , .	0.3	3
3	Compartmental Modelling in chemical engineering: A critical review. Chemical Engineering Science, 2019, 210, 115196.	1.9	47
4	Dynamic modeling of 5 MWe supercritical CO2 recompression Brayton cycle. AIP Conference Proceedings, 2018, , .	0.3	6
5	Up-to-date CO2 Capture in Thermal Power Plants. Energy Procedia, 2017, 114, 95-103.	1.8	31
6	Techno-economic Optimization of First Generation Oxy-fired Pulverized-coal Power Plant. Energy Procedia, 2017, 114, 490-500.	1.8	0
7	Solvent regeneration by novel direct non-aqueous gas stripping process for post-combustion CO2 capture. Applied Energy, 2017, 205, 23-32.	5.1	17
8	Process modifications for CO2 capture. , 2016, , 305-340.		5
9	Supercritical CO2 Brayton cycles for coal-fired power plants. Energy, 2016, 103, 758-771.	4.5	245
10	Energy efficiency of a hybrid membrane/condensation process for VOC (Volatile Organic Compounds) recovery from air: A generic approach. Energy, 2016, 95, 291-302.	4.5	140
11	Development of a thermodynamic identification tool for CO₂ capture by chemical absorption. Canadian Journal of Chemical Engineering, 2015, 93, 297-303.	0.9	3
12	Efficiency evaluation procedure of coal-fired power plants with CO2 capture, cogeneration and hybridization. Energy, 2015, 91, 306-323.	4.5	20
13	Towards Second Generation Oxy-pulverized Coal Power Plants: Energy Penalty Reduction Potential of Pressurized Oxy-combustion Systems. Energy Procedia, 2014, 63, 431-439.	1.8	29
14	Experimental Study on the Novel Direct Steam Stripping Process for Postcombustion CO₂ Capture. Industrial & Engineering Chemistry Research, 2014, 53, 18054-18062.	1.8	20
15	Development of a CO2 Capture Process Based on Ammonia Solvent and a Dedicated Composite Hollow Fibre Membrane Contactor. Energy Procedia, 2014, 63, 651-658.	1.8	4
16	Performance assessment of first generation oxy-coal power plants through an exergy-based process integration methodology. Energy, 2014, 69, 272-284.	4.5	34
17	Process modifications for solvent-based post-combustion CO2 capture. International Journal of Greenhouse Gas Control, 2014, 31, 96-112.	2.3	134
18	Solubility and energy analysis for CO2 absorption in piperazine derivatives and their mixtures. International Journal of Greenhouse Gas Control, 2014, 31, 25-32.	2.3	45

#	Article	IF	Citations
19	Performance Simulation of Full-scale Wet Flue Gas Desulfurization for Oxy-coal Combustion. Energy Procedia, 2014, 63, 463-470.	1.8	7
20	Process Modifications for Solvent-based Post Combustion CO2 Capture. Energy Procedia, 2014, 63, 1470-1477.	1.8	13
21	Optimal Integration of the Flue Gas Heat for the Minimization of the Energy Penalty of Oxy-fired Power Plants. Energy Procedia, 2014, 63, 7359-7366.	1.8	2
22	Novel Solvent Regeneration Process through Direct Steam Stripping. Energy Procedia, 2014, 63, 1392-1398.	1.8	7
23	Modeling CO₂ Capture in Amine Solvents: Prediction of Performance and Insights on Limiting Phenomena. Industrial & Engineering Chemistry Research, 2013, 52, 4266-4279.	1.8	33
24	Vacuum Regeneration of Amine Solvent for Post-Combustion Carbon Capture with Compression Train Integration. Energy Procedia, 2013, 37, 1814-1820.	1.8	5
25	Coal Chemical-Looping Combustion for Electricity Generation: Investigation for a 250 MWe Power Plant. Energy Procedia, 2013, 37, 588-597.	1.8	30
26	Conception of a Pulverized Coal Fired Power Plant with Carbon Capture around a Supercritical Carbon Dioxide Brayton Cycle. Energy Procedia, 2013, 37, 1180-1186.	1.8	22
27	A Rigorous Optimization Method of Operating Parameters for Amine-Based CO2 Capture Processes. Energy Procedia, 2013, 37, 1821-1829.	1.8	6
28	Conceptual study of a high efficiency coal-fired power plant with CO2 capture using a supercritical CO2 Brayton cycle. Energy, 2013, 49, 32-46.	4.5	235
29	Hybrid membrane cryogenic process for post-combustion CO2 capture. Journal of Membrane Science, 2012, 415-416, 424-434.	4.1	109
30	Assessment of carbon capture thermodynamic limitation on coal-fired power plant efficiency. International Journal of Greenhouse Gas Control, 2012, 7, 192-201.	2.3	19
31	Wet Industrial Flue Gas Desulfurization Unit: Model Development and Validation on Industrial Data. Industrial & Engineering Chemistry Research, 2011, 50, 7579-7592.	1.8	48
32	Screening of flowsheet modifications for an efficient monoethanolamine (MEA) based post-combustion CO2 capture. International Journal of Greenhouse Gas Control, 2011, 5, 727-740.	2.3	146
33	Activated sludge pilot plant: Comparison between experimental and predicted concentration profiles using three different modelling approaches. Water Research, 2011, 45, 3085-3097.	5.3	36
34	Optimization of MEA based post combustion CO2 capture process: Flowsheeting and energetic integration. Energy Procedia, 2011, 4, 1303-1309.	1.8	31
35	Comparison of systemic, compartmental and CFD modelling approaches: Application to the simulation of a biological reactor of wastewater treatment. Chemical Engineering Science, 2010, 65, 343-350.	1.9	59
36	CFD simulation of the hydrodynamics and reactions in an activated sludge channel reactor of wastewater treatment. Chemical Engineering Science, 2010, 65, 492-498.	1.9	61

#	Article	IF	Citations
37	Flow field and residence time distribution simulation of a cross-flow gasâ€“liquid wastewater treatment reactor using CFD. Chemical Engineering Science, 2008, 63, 2436-2449.	1.9	100
38	A general correlation to predict axial dispersion coefficients in aerated channel reactors. Water Research, 2008, 42, 1767-1777.	5.3	12