

Manuele Gatti

List of Publications by Year in descending order

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26
papers

662
citations

623699

14
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642715

23
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26
all docs

26
docs citations

26
times ranked

600
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic analysis and numerical optimization of the NET Power oxy-combustion cycle. Applied Energy, 2016, 178, 505-526.	10.1	132
2	Techno-economic analysis of calcium looping processes for low CO ₂ emission cement plants. International Journal of Greenhouse Gas Control, 2019, 82, 244-260.	4.6	104
3	Review, modeling, Heat Integration, and improved schemes of Rectisol®-based processes for CO ₂ capture. Applied Thermal Engineering, 2014, 70, 1123-1140.	6.0	91
4	Process integration study of tail-end Ca-Looping process for CO ₂ capture in cement plants. International Journal of Greenhouse Gas Control, 2017, 67, 71-92.	4.6	42
5	Supercritical pressure–density–temperature measurements on CO ₂ –N ₂ , CO ₂ –O ₂ and CO ₂ –Ar binary mixtures. Journal of Supercritical Fluids, 2012, 61, 34-43.	3.2	37
6	Integration of Ca-Looping Systems for CO ₂ Capture in Cement Plants. Energy Procedia, 2017, 114, 6206-6214.	1.8	31
7	Thermodynamic Optimization and Part-load Analysis of the NET Power Cycle. Energy Procedia, 2017, 114, 551-560.	1.8	28
8	Assessing the potential of molten carbonate fuel cell-based schemes for carbon capture in natural gas-fired combined cycle power plants. Journal of Power Sources, 2020, 448, 227223.	7.8	28
9	Biomethane liquefaction: A systematic comparative analysis of refrigeration technologies. Applied Thermal Engineering, 2019, 158, 113815.	6.0	24
10	Numerical optimization of steam cycles and steam generators designs for coal to FT plants. Chemical Engineering Research and Design, 2013, 91, 1467-1482.	5.6	20
11	Biogas upgrading by amine scrubbing: solvent comparison between MDEA and MDEA/MEA blend. Energy Procedia, 2018, 148, 970-977.	1.8	19
12	Preliminary Performance and Cost Evaluation of Four Alternative Technologies for Post-Combustion CO ₂ Capture in Natural Gas-Fired Power Plants. Energies, 2020, 13, 543.	3.1	19
13	Solid oxide semi-closed CO ₂ cycle: A hybrid power cycle with 75% net efficiency and zero emissions. Applied Energy, 2021, 290, 116711.	10.1	17
14	Techno-economic optimization and off-design analysis of CO ₂ purification units for cement plants with oxyfuel-based CO ₂ capture. International Journal of Greenhouse Gas Control, 2022, 115, 103591.	4.6	15
15	Process selection, modelling and optimization of a water scrubbing process for energy-self-sufficient biogas upgrading plants. Sustainable Energy Technologies and Assessments, 2018, 27, 63-73.	2.7	14
16	Multi-objective Optimization of a Rectisol® Process. Computer Aided Chemical Engineering, 2014, , 1249-1254.	0.5	10
17	Evaluation of Five Alternative CO ₂ Capture Technologies with Insights to Inform Further Development. Energy Procedia, 2017, 114, 2599-2610.	1.8	9
18	Bench-scale experimental tests and data analysis on CO ₂ capture with potassium proline solutions for combined cycle decarbonization. International Journal of Greenhouse Gas Control, 2020, 93, 102881.	4.6	5

#	ARTICLE	IF	CITATIONS
19	Bench-Scale Absorption Testing of Aqueous Potassium Lysinate as a New Solvent for CO ₂ Capture in Natural Gas-Fired Power Plants. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103268.	4.6	5
20	Density and Viscosity Measurements and Modeling of CO ₂ -Loaded and Unloaded Aqueous Solutions of Potassium Lysinate. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 4460-4475.	1.9	5
21	Design Criteria and Optimization of Heat Recovery Steam Cycles for High-Efficiency, Coal-Fired, Fischer-Tropsch Plants. , 2012, , .		3
22	A Code for the Preliminary Design of Cooled Supercritical CO ₂ Turbines and Application to the Allam Cycle. <i>Journal of Engineering for Gas Turbines and Power</i> , 2022, 144, .	1.1	2
23	Multi-objective optimization of the water scrubbing process for biogas upgrading. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 2551-2556.	0.5	1
24	Optimization of semi-permeable membrane systems for biogas upgrading. <i>Computer Aided Chemical Engineering</i> , 2019, , 1693-1698.	0.5	1
25	Comparative Analysis of the Oxyfuel and Calcium Looping Processes for Low-Carbon Cement Production. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
26	Numerical Optimization of Steam Cycles and Steam Generators Designs for a Coal to FT plant. <i>Computer Aided Chemical Engineering</i> , 2012, , 297-301.	0.5	0