Paolo Chiesa

List of Publications by Year
in descending order

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55 papers	2,991 citations	257101 24 h-index	161609 54 g-index
57 all docs	57 docs citations	57 times ranked	2026 citing authors

#	Article	IF	Citations
1	A Code for the Preliminary Design of Cooled Supercritical CO2 Turbines and Application to the Allam Cycle. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	0.5	2
2	Experimental characterisation of CO2Â+ÂC6F6 mixture: Thermal stability and vapour liquid equilibrium test for its application in transcritical power cycle. Applied Thermal Engineering, 2022, 212, 118520.	3.0	11
3	Finding synergy between renewables and coal: Flexible power and hydrogen production from advanced IGCC plants with integrated CO2 capture. Energy Conversion and Management, 2021, 231, 113866.	4.4	23
4	Integration of gas switching combustion and membrane reactors for exceeding 50% efficiency in flexible IGCC plants with near-zero CO2 emissions. Energy Conversion and Management: X, 2020, 7, 100050.	0.9	2
5	Oxygen Transport Membranes for Efficient Glass Melting. Membranes, 2020, 10, 442.	1.4	6
6	Experimental and analytical procedure for the characterization of innovative working fluids for power plants applications. Applied Thermal Engineering, 2020, 178, 115513.	3.0	21
7	Integration of chemical looping combustion for cost-effective CO2 capture from state-of-the-art natural gas combined cycles. Energy Conversion and Management: X, 2020, 7, 100044.	0.9	17
8	New experimental VLE data for the binary mixture of carbon dioxideÂ+ perfluorohexane (CO2Â+ C6F14) from 273â€¯K to 333â€¯K. Fluid Phase Equilibria, 2019, 498, 94-103.	1.4	7
9	Sizing and operating units for the purification and compression of CO2-based streams: The impact of thermodynamic model accuracy. Journal of Supercritical Fluids, 2018, 140, 336-347.	1.6	7
10	Integration of chemical looping oxygen production and chemical looping combustion in integrated gasification combined cycles. Fuel, 2018, 220, 725-743.	3.4	24
11	Economic assessment of chemical looping oxygen production and chemical looping combustion in integrated gasification combined cycles. International Journal of Greenhouse Gas Control, 2018, 78, 354-363.	2.3	16
12	Optimization of a Gas Switching Combustion process through advanced heat management strategies. Applied Energy, 2017, 185, 1459-1470.	5.1	17
13	Measurement and prediction of multi-property data of CO2-N2-O2-CH4 mixtures with the â€œPeng-RobinsonÂ+Âresidual Helmholtz energy-basedâ€•model. Fluid Phase Equilibria, 2017, 437, 166-180.	1.4	16
14	Optimizing Thermodynamic Models: The Relevance of Molar Fraction Uncertainties. Journal of Chemical & Engineering Data, 2017, 62, 825-832.	1.0	9
15	Modeling the Thermodynamics of Fluids Treated by CO₂ Capture Processes with Pengâ€“Robinson + Residual Helmholtz Energy-Based Mixing Rules. Industrial & Engineering Chemistry Research, 2017, 56, 2259-2276.	1.8	17
16	Application of an integrated lumped parameter-CFD approach to evaluate the ejector-driven anode recirculation in a PEM fuel cell system. Applied Thermal Engineering, 2017, 121, 628-651.	3.0	75
17	Thermodynamic assessment of the swing adsorption reactor cluster (SARC) concept for post-combustion CO 2 capture. International Journal of Greenhouse Gas Control, 2017, 60, 74-92.	2.3	25
18	COMPOSITE: A Concept for High Efficiency Power Production with Integrated CO2 Capture from Solid Fuels. Energy Procedia, 2017, 114, 539-550.	1.8	3

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19	Economic assessment of packed bed chemical looping combustion and suitable benchmarks. International Journal of Greenhouse Gas Control, 2017, 64, 223-233.	2.3	20
20	Simulation of Oxygen Transport Membranes for CPO Reactors in Small-scale Hydrogen or Syngas Production Applications. Energy Procedia, 2017, 142, 1589-1594.	1.8	5
21	Predicting the ultimate potential of natural gas SOFC power cycles with CO 2 capture â€“ Part A: Methodology and reference cases. Journal of Power Sources, 2016, 324, 598-614.	4.0	62
22	Predicting the ultimate potential of natural gas SOFC power cycles with CO2 capture â€“ Part B: Applications. Journal of Power Sources, 2016, 325, 194-208.	4.0	40
23	VLE properties of CO2 â€“ Based binary systems containing N2, O2 and Ar: Experimental measurements and modelling results with advanced cubic equations of state. Fluid Phase Equilibria, 2016, 428, 18-31.	1.4	47
24	High fidelity model of the oxygen flux across ion transport membrane reactor: Mechanism characterization using experimental data. Energy, 2016, 96, 127-141.	4.5	8
25	Thermal Stability Analysis of Perfluorohexane. Energy Procedia, 2015, 75, 1575-1582.	1.8	14
26	Reactor design and operation strategies for a large-scale packed-bed CLC power plant with coal syngas. International Journal of Greenhouse Gas Control, 2015, 36, 34-50.	2.3	53
27	Energy analysis of two stage packed-bed chemical looping combustion configurations for integrated gasification combined cycles. Energy, 2015, 85, 489-502.	4.5	35
28	Boosting the IGCLC process efficiency by optimizing the desulfurization step. Applied Energy, 2015, 157, 422-432.	5.1	11
29	Integration of a Gas Switching Combustion (GSC) system in integrated gasification combined cycles. International Journal of Greenhouse Gas Control, 2015, 42, 340-356.	2.3	26
30	An Integrated Lumped Parameter-CFD approach for off-design ejector performance evaluation. Energy Conversion and Management, 2015, 105, 697-715.	4.4	92
31	Using Hydrogen as Gas Turbine Fuel: Premixed Versus Diffusive Flame Combustors. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	0.5	51
32	Economic analysis of CO2 capture from natural gas combined cycles using Molten Carbonate Fuel Cells. Applied Energy, 2014, 130, 562-573.	5.1	115
33	Process design of a hydrogen production plant from natural gas with CO2 capture based on a novel Ca/Cu chemical loop. Applied Energy, 2014, 114, 192-208.	5.1	84
34	Comparison on process efficiency for CLC of syngas operated in packed bed and fluidized bed reactors. International Journal of Greenhouse Gas Control, 2014, 28, 65-78.	2.3	68
35	Vapour â€“ Liquid Equilibrium Measurements of CO2 based Mixtures: Experimental Apparatus and Testing Procedures. Energy Procedia, 2014, 45, 1215-1224.	1.8	12
36	Integration of coal gasification and packed bed CLC for high efficiency and near-zero emission power generation. International Journal of Greenhouse Gas Control, 2014, 27, 28-41.	2.3	72

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37	Efficient low CO2 emissions power generation by mixed conducting membranes. Energy Procedia, 2013, 37, 905-913.	1.8	21
38	Dense Membranes for Oxygen and Hydrogen Separation (DEMOYS): Project Overview and First Results. Energy Procedia, 2013, 37, 1030-1038.	1.8	11
39	Investigation of heat management for CLC of syngas in packed bed reactors. Chemical Engineering Journal, 2013, 225, 174-191.	6.6	67
40	Numerical optimization of steam cycles and steam generators designs for coal to FT plants. Chemical Engineering Research and Design, 2013, 91, 1467-1482.	2.7	20
41	Integration of Coal Gasification and Packed Bed CLC process for High Efficiency and Near-zero Emission Power Generation. Energy Procedia, 2013, 37, 662-670.	1.8	16
42	CO2 Separation From Combined Cycles Using Molten Carbonate Fuel Cells. Journal of Fuel Cell Science and Technology, 2012, 9, .	0.8	13
43	CO2 cryogenic separation from combined cycles integrated with molten carbonate fuel cells. International Journal of Hydrogen Energy, 2011, 36, 10355-10365.	3.8	105
44	Application of MCFCs for active CO2 capture within natural gas combined cycles. Energy Procedia, 2011, 4, 1235-1242.	1.8	21
45	CO2 capture from combined cycles integrated with Molten Carbonate Fuel Cells. International Journal of Greenhouse Gas Control, 2010, 4, 441-451.	2.3	139
46	Pre-combustion CO2 capture from natural gas power plants, with ATR and MDEA processes. International Journal of Greenhouse Gas Control, 2010, 4, 785-797.	2.3	90
47	A novel system for the production of pure hydrogen from natural gas based on solid oxide fuel cellâ€“solid oxide electrolyzer. International Journal of Hydrogen Energy, 2010, 35, 12680-12687.	3.8	32
48	Advanced technologies for syngas and hydrogen (H 2) production from fossil-fuel feedstocks in power plants. , 2010, , 383-411.		4
49	Three-reactors chemical looping process for hydrogen production. International Journal of Hydrogen Energy, 2008, 33, 2233-2245.	3.8	205
50	Carbon-Free Hydrogen and Electricity From Coal: Options for Syngas Cooling in Systems Using a Hydrogen Separation Membrane Reactor. Journal of Engineering for Gas Turbines and Power, 2008, 130, .	0.5	10
51	CO2 Sequestration From IGCC Power Plants by Means of Metallic Membranes. Journal of Engineering for Gas Turbines and Power, 2007, 129, 123-134.	0.5	53
52	Co-production of hydrogen, electricity and CO from coal with commercially ready technology. Part B: Economic analysis. International Journal of Hydrogen Energy, 2005, 30, 769-784.	3.8	269
53	Co-production of hydrogen, electricity and CO from coal with commercially ready technology. Part A: Performance and emissions. International Journal of Hydrogen Energy, 2005, 30, 747-767.	3.8	329
54	Using Hydrogen as Gas Turbine Fuel. Journal of Engineering for Gas Turbines and Power, 2005, 127, 73-80.	0.5	325

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55	A Thermodynamic Analysis of Different Options to Break 60% Electric Efficiency in Combined Cycle Power Plants. Journal of Engineering for Gas Turbines and Power, 2004, 126, 770-785.	0.5	146