Stefano Consonni

List of Publications by Year
in descending order

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45 papers	2,151 citations	257101 24 h-index	395343 33 g-index
45 all docs	45 docs citations	45 times ranked	1857 citing authors

#	Article	IF	Citations
1	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
2	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
3	A gasification-based biorefinery for the pulp and paper industry. Chemical Engineering Research and Design, 2009, 87, 1293-1317.	2.7	117
4	Waste gasification vs. conventional Waste-To-Energy: A comparative evaluation of two commercial technologies. Waste Management, 2012, 32, 653-666.	3.7	116
5	Co-production of decarbonized synfuels and electricity from coal + biomass with CO₂capture and storage: an Illinois case study. Energy and Environmental Science, 2010, 3, 28-42.	15.6	106
6	Techno-economic analysis of calcium looping processes for low CO2 emission cement plants. International Journal of Greenhouse Gas Control, 2019, 82, 244-260.	2.3	104
7	Review, modeling, Heat Integration, and improved schemes of RectisolÂ®-based processes for CO2 capture. Applied Thermal Engineering, 2014, 70, 1123-1140.	3.0	91
8	Shell coal IGCCS with carbon capture: Conventional gas quench vs. innovative configurations. Applied Energy, 2011, 88, 3978-3989.	5.1	79
9	Chemical-Looping Combustion for Combined Cycles With CO2 Capture. Journal of Engineering for Gas Turbines and Power, 2006, 128, 525-534.	0.5	76
10	The Calcium Looping Process for Low CO2 Emission Cement and Power. Energy Procedia, 2013, 37, 7091-7099.	1.8	75
11	Comparison of coal IGCC with and without CO2 capture and storage: Shell gasification with standard vs. partial water quench. Energy Procedia, 2009, 1, 607-614.	1.8	71
12	Decarbonized hydrogen and electricity from natural gas. International Journal of Hydrogen Energy, 2005, 30, 701-718.	3.8	56
13	Material and energy recovery in integrated waste management systems: Project overview and main results. Waste Management, 2011, 31, 2057-2065.	3.7	56
14	Numerical optimization of heat recovery steam cycles: Mathematical model, two-stage algorithm and applications. Computers and Chemical Engineering, 2011, 35, 2799-2823.	2.0	45
15	Natural Gas Fired Combined Cycles With Low CO2 Emissions. Journal of Engineering for Gas Turbines and Power, 2000, 122, 429-436.	0.5	39
16	Design and performance evaluation of a waste-to-energy plant integrated with a combined cycle. Energy, 2010, 35, 786-793.	4.5	39
17	Material and energy recovery in integrated waste management systems: The potential for energy recovery. Waste Management, 2011, 31, 2074-2084.	3.7	39
18	Supercritical pressureâ€“densityâ€“temperature measurements on CO2â€“N2, CO2â€“O2 and CO2â€–Ar binary mixtures. Journal of Supercritical Fluids, 2012, 61, 34-43.	1.6	37

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19	Number concentration and chemical composition of ultrafine and nanoparticles from WTE (waste to) Tj ETQq1 1 0.784314 rgBT /Ove	3.9	35
20	Numerical optimization of Combined Heat and Power Organic Rankine Cycles â€“ Part A: Design optimization. Energy, 2015, 90, 310-328.	4.5	35
21	Preliminary Economics of Black Liquor Gasifier/Gas Turbine Cogeneration at Pulp and Paper Mills. Journal of Engineering for Gas Turbines and Power, 2000, 122, 255-261.	0.5	33
22	Molten Carbonate Fuel Cells retrofits for CO2 capture and enhanced energy production in the steel industry. International Journal of Greenhouse Gas Control, 2019, 88, 195-208.	2.3	32
23	The Calcium Looping Process for Low CO2 Emission Cement Plants. Energy Procedia, 2014, 61, 500-503.	1.8	30
24	Off-design performance of integrated waste-to-energy, combined cycle plants. Applied Thermal Engineering, 2007, 27, 712-721.	3.0	28
25	Predicting the Ultimate Performance of Advanced Power Cycles Based on Very High Temperature Gas Turbine Engines. , 1993, , .		25
26	Application of Molten Carbonate Fuel Cells in Cement Plants for CO2 Capture and Clean Power Generation. Energy Procedia, 2014, 63, 6517-6526.	1.8	23
27	Molten Carbonate Fuel Cells for Retrofitting Postcombustion CO2 Capture in Coal and Natural Gas Power Plants. Journal of Electrochemical Energy Conversion and Storage, 2018, 15, .	1.1	22
28	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
29	Preliminary Performance and Cost Evaluation of Four Alternative Technologies for Post-Combustion CO2 Capture in Natural Gas-Fired Power Plants. Energies, 2020, 13, 543.	1.6	19
30	Low-carbon hydrogen via integration of steam methane reforming with molten carbonate fuel cells at low fuel utilization. Advances in Applied Energy, 2021, 2, 100010.	6.6	16
31	The Zero Waste utopia and the role of waste-to-energy. Waste Management and Research, 2020, 38, 481-484.	2.2	13
32	A comparative analysis of IGCCs with CO2 sequestration. , 1999, , 107-112.		13
33	Vapour â€“ Liquid Equilibrium Measurements of CO2 based Mixtures: Experimental Apparatus and Testing Procedures. Energy Procedia, 2014, 45, 1215-1224.	1.8	12
34	Multi-objective Optimization of a RectisolÂ® Process. Computer Aided Chemical Engineering, 2014, , 1249-1254.	0.3	10
35	Shift Reactors and Physical Absorption for Low-CO2 Emission IGCCs. , 1998, , .		9
36	Externally Fired Combined Cycles (EFCC): Part A â€" Thermodynamics and Technological Issues. , 1996, , .		7

#	Article	IF	Citations
37	Combined Cycles for High Performance, Low Cost, Low Environmental Impact Waste-to-Energy Systems. , 2000, , .		7
38	Natural Gas Fired Combined Cycles With Low CO2 Emissions. , 1999, , .		5
39	Municipal Solid Waste to Energy Technology. , 2017, , 389-401.		4
40	Externally Fired Combined Cycles (EFCC): Part B â€" Alternative Configurations and Cost Projections. , 1996, , .		3
41	Design Criteria and Optimization of Heat Recovery Steam Cycles for High-Efficiency, Coal-Fired, Fischer-Tropsch Plants. , 2012, , .		3
42	Shell Gasifier-Based Coal IGCC With CO2 Capture: Partial Water Quench vs. Novel Water-Gas Shift. , 2010, , .		2
43	Hot showers for ethanol rich countries. Energy, 1990, 15, 821-829.	4.5	1
44	Thermodynamic, Economic and Environmental Benefits of the Integration Between Oil Refineries and IGCCs. , 2001, , .		0
45	Numerical Optimization of Steam Cycles and Steam Generators Designs for a Coal to FT plant. Computer Aided Chemical Engineering, 2012, , 297-301.	0.3	0