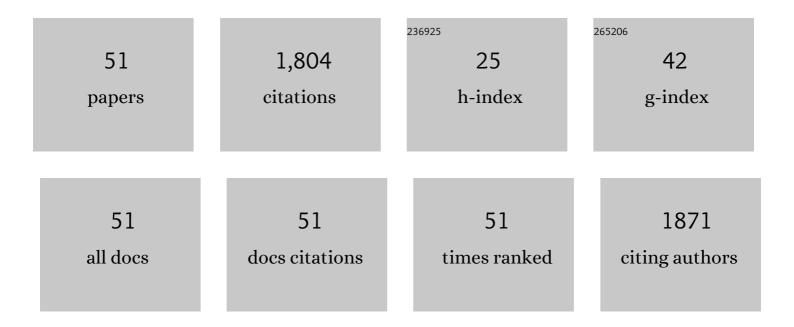
## Giorgio Cau

List of Publications by Year in descending order

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GIORCIO CALL

#	Article	lF	CITATIONS
1	Energy management strategy based on short-term generation scheduling for a renewable microgrid using a hydrogen storage system. Energy Conversion and Management, 2014, 87, 820-831.	9.2	206
2	Real-time integration of optimal generation scheduling with MPC for the energy management of a renewable hydrogen-based microgrid. Applied Energy, 2016, 166, 96-106.	10.1	154
3	A comparison between CFD simulation and experimental investigation of a packed-bed thermal energy storage system. Applied Thermal Engineering, 2016, 98, 1263-1272.	6.0	104
4	Comparison of Medium-size Concentrating Solar Power Plants based on Parabolic Trough and Linear Fresnel Collectors. Energy Procedia, 2014, 45, 101-110.	1.8	99
5	CO2-free coal-fired power generation by partial oxy-fuel and post-combustion CO2 capture: Techno-economic analysis. Fuel, 2018, 214, 423-435.	6.4	78
6	Techno-economic comparison between different technologies for CO2-free power generation from coal. Applied Energy, 2017, 193, 426-439.	10.1	76
7	Performance assessment of Adiabatic Compressed Air Energy Storage (A-CAES) power plants integrated with packed-bed thermocline storage systems. Energy Conversion and Management, 2017, 151, 343-356.	9.2	69
8	Performance evaluation of small size externally fired gas turbine (EFGT) power plants integrated with direct biomass dryers. Energy, 2006, 31, 1459-1471.	8.8	68
9	Assessment of integrated energy systems for the production and use of renewable methanol by water electrolysis and CO2 hydrogenation. Fuel, 2021, 285, 119160.	6.4	66
10	Numerical Investigation of a Packed Bed Thermal Energy Storage System with Different Heat Transfer Fluids. Energy Procedia, 2014, 45, 598-607.	1.8	65
11	Comparative performance assessment of USC and IGCC power plants integrated with CO2 capture systems. Fuel, 2014, 116, 820-833.	6.4	59
12	Exergetic and integrated exergoeconomic assessments of a hybrid solar-biomass organic Rankine cycle cogeneration plant. Energy Conversion and Management, 2020, 215, 112905.	9.2	46
13	Performance and cost assessment of Integrated Solar Combined Cycle Systems (ISCCSs) using CO2 as heat transfer fluid. Solar Energy, 2012, 86, 2975-2985.	6.1	43
14	Biomass retrofit for existing solar organic Rankine cycle power plants: Conceptual hybridization strategy and techno-economic assessment. Energy Conversion and Management, 2019, 196, 831-845.	9.2	41
15	Performance evaluation of chemically recuperated gas turbine (CRGT) power plants fuelled by di-methyl-ether (DME). Energy, 2006, 31, 1446-1458.	8.8	39
16	Energy and economic analysis of concentrating solar power plants based on parabolic trough and linear Fresnel collectors. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2015, 229, 677-688.	1.4	37
17	A Study of a Packed-bed Thermal Energy Storage Device: Test Rig, Experimental and Numerical Results. Energy Procedia, 2015, 81, 987-994.	1.8	35
18	Performance assessment of USC power plants integrated with CCS and concentrating solar collectors. Energy Conversion and Management, 2014, 88, 973-984.	9.2	34

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#	Article	IF	CITATIONS
19	Modified auxiliary exergy costing in advanced exergoeconomic analysis applied to a hybrid solar-biomass organic Rankine cycle plant. Applied Energy, 2020, 268, 114888.	10.1	34
20	Energy and cost analysis of small-size integrated coal gasification and syngas storage power plants. Energy Conversion and Management, 2012, 56, 121-129.	9.2	31
21	CO2 Emissions Reduction From Coal-Fired Power Generation: A Techno-Economic Comparison. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	31
22	Comparison of three different approaches for the optimization of the CSP plant scheduling. Solar Energy, 2017, 150, 463-476.	6.1	31
23	Experimental and Numerical Research Activity on a Packed Bed TES System. Energies, 2016, 9, 758.	3.1	29
24	The Ottana solar facility: dispatchable power from small-scale CSP plants based on ORC systems. Renewable Energy, 2020, 147, 2932-2943.	8.9	29
25	Impacts of Renewable Energy Resources on Effectiveness of Grid-Integrated Systems: Succinct Review of Current Challenges and Potential Solution Strategies. Energies, 2020, 13, 4856.	3.1	29
26	A steady state model for predicting performance of small-scale up-draft coal gasifiers. Fuel, 2015, 152, 3-12.	6.4	27
27	Thermo-economic evaluation of actively selected siloxane mixtures in a hybrid solar-biomass organic Rankine cycle power plant. Applied Thermal Engineering, 2020, 165, 114607.	6.0	25
28	Modeling and Simulation of an Isolated Hybrid Micro-grid with Hydrogen Production and Storage. Energy Procedia, 2014, 45, 12-21.	1.8	21
29	Use of weather forecast for increasing the self-consumption rate of home solar systems: An Italian case study. Applied Energy, 2018, 212, 746-758.	10.1	21
30	Experimental investigation of a packed bed thermal energy storage system. Journal of Physics: Conference Series, 2015, 655, 012018.	0.4	20
31	Multi-objective thermo-economic optimization of biomass retrofit for an existing solar organic Rankine cycle power plant based on NSGA-II. Energy Reports, 2020, 6, 136-145.	5.1	19
32	A Pilot Power Plant Based on Concentrating Solar and Energy Storage Technologies for Improving Electricity Dispatch. Energy Procedia, 2015, 81, 165-172.	1.8	16
33	Comparison between experimental and numerical results of a packed-bed thermal energy storage system in continuous operation. Energy Procedia, 2018, 148, 234-241.	1.8	16
34	Thermocline vs. twoâ€ŧank direct thermal storage system for concentrating solar power plants: A comparative technoâ€economic assessment. International Journal of Energy Research, 2021, 45, 17721-17737.	4.5	14
35	Pumped thermal energy storage systems integrated with a concentrating solar power section: Conceptual design and performance evaluation. Energy, 2022, 247, 123516.	8.8	14
36	Small-scale CSP plant coupled with an ORC system for providing dispatchable power: the Ottana Solar Facility. Energy Procedia, 2017, 129, 708-715.	1.8	13

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#	Article	IF	CITATIONS
37	Optimal Integration of Hydrogen-Based Energy Storage Systems in Photovoltaic Microgrids: A Techno-Economic Assessment. Energies, 2020, 13, 4149.	3.1	13
38	Performance evaluation of high-sulphur coal-fired USC plant integrated with SNOX and CO2 capture sections. Applied Thermal Engineering, 2015, 74, 136-145.	6.0	11
39	Performance Assessment of Semi-Closed Chemically Recuperated Gas Turbine Systems. , 2000, , .		10
40	Thermodynamic and environmental assessment of integrated gasification and methanol synthesis (IGMS) energy systems with CO2 removal. Energy Conversion and Management, 1997, 38, S179-S186.	9.2	9
41	Performance of Zero Emissions Integrated Gasification Hydrogen Combustion (ZE-IGHC) Power Plants With CO2 Removal. , 2001, , .		5
42	Techno-economic comparison of different thermal energy storage technologies for medium-scale CSP plants. AIP Conference Proceedings, 2019, , .	0.4	4
43	Numerical Investigation on a Packed-Bed LHTES System Integrated into a Micro Electrical and Thermal Grid. Energies, 2020, 13, 2018.	3.1	4
44	Performance Assessment of Low-Temperature A-CAES (Adiabatic Compressed Air Energy Storage) Plants. Journal of Thermal Science, 2022, 31, 1279-1292.	1.9	4
45	Integration of Combined Cycle Power Plants and Parabolic Solar Troughs Using CO2 as Heat Transfer Fluid. , 2010, , .		2
46	Performance evaluation of an integrated energy system for the production and use of renewable methanol via water electrolysis and CO2 hydrogenation. AIP Conference Proceedings, 2019, , .	0.4	2
47	Solar-Assisted Ultra-supercritical Steam Power Plants with Carbon Capture and Storage. , 2016, , 933-947.		1
48	Comparative Analysis of Hydrogen Combustion Power Plants Integrated With Coal Gasification and CO2 Removal. , 2006, , .		0
49	Energy and Cost Analysis of Small Size CHP Coal Gasification Plants Integrated With Syngas Storage Systems. , 2012, , .		0
50	Modeling, Optimization and Testing of Thermal Energy Storage Systems and Their Integration in Energy Conversion Processes. Energies, 2022, 15, 1121.	3.1	0
51	Integration of pumped thermal energy storage systems based on Brayton cycle with CSP plants. , 2022, ,		0