

# Guido Francesco Frate

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

629  
citations

840119

11  
h-index

794141

19  
g-index

24  
all docs

24  
docs citations

24  
times ranked

394  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carnot battery technology: A state-of-the-art review. <i>Journal of Energy Storage</i> , 2020, 32, 101756.	3.9	137
2	A novel Pumped Thermal Electricity Storage (PTES) system with thermal integration. <i>Applied Thermal Engineering</i> , 2017, 121, 1051-1058.	3.0	87
3	Energy storage for grid-scale applications: Technology review and economic feasibility analysis. <i>Renewable Energy</i> , 2021, 163, 1754-1772.	4.3	70
4	Multi-criteria investigation of a pumped thermal electricity storage (PTES) system with thermal integration and sensible heat storage. <i>Energy Conversion and Management</i> , 2020, 208, 112530.	4.4	66
5	Analysis of suitability ranges of high temperature heat pump working fluids. <i>Applied Thermal Engineering</i> , 2019, 150, 628-640.	3.0	64
6	Rankine Carnot Batteries with the Integration of Thermal Energy Sources: A Review. <i>Energies</i> , 2020, 13, 4766.	1.6	47
7	Multi-Criteria Economic Analysis of a Pumped Thermal Electricity Storage (PTES) With Thermal Integration. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	32
8	Power-to-Gas: Analysis of potential decarbonization of Spanish electrical system in long-term prospective. <i>Energy</i> , 2018, 159, 656-668.	4.5	28
9	Techno-economic sizing of a battery energy storage coupled to a wind farm: an Italian case study. <i>Energy Procedia</i> , 2018, 148, 447-454.	1.8	20
10	Ramp rate abatement for wind power plants: A techno-economic analysis. <i>Applied Energy</i> , 2019, 254, 113600.	5.1	19
11	Impact of wind speed distribution and management strategy on hydrogen production from wind energy. <i>Energy</i> , 2022, 256, 124636.	4.5	14
12	Critical review and economic feasibility analysis of electric energy storage technologies suited for grid scale applications. <i>E3S Web of Conferences</i> , 2019, 137, 01037.	0.2	11
13	Steam expander as a throttling valve replacement in industrial plants: A techno-economic feasibility analysis. <i>Applied Energy</i> , 2019, 238, 11-21.	5.1	11
14	Energy and economic savings through a plant supervised management in large-scale commercial activities. <i>Applied Thermal Engineering</i> , 2018, 141, 269-279.	3.0	8
15	ORC Optimal Design through Clusterization for Waste Heat Recovery in Anaerobic Digestion Plants. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2762.	1.3	5
16	Impact of Forecast Uncertainty on Wind Farm Profitability. <i>Journal of Engineering for Gas Turbines and Power</i> , 2020, 142, .	0.5	5
17	Ramp rate abatement for wind energy integration in microgrids. <i>Energy Procedia</i> , 2019, 159, 292-297.	1.8	2
18	Performance analysis of a Brayton Pumped Thermal Electricity Storage (PTES) with a liquid sensible heat storage. <i>E3S Web of Conferences</i> , 2021, 238, 10007.	0.2	1

#	ARTICLE	IF	CITATIONS
19	Off-Design of a Pumped Thermal Energy Storage Based on Closed Brayton Cycles. , 2021, , .		1
20	Off-Design of a Pumped Thermal Energy Storage Based On Closed Brayton Cycles. Journal of Engineering for Gas Turbines and Power, 2021, , .	0.5	1
21	A simplified model for the prediction of energy consumption in large-scale commercial activities. AIP Conference Proceedings, 2019, , .	0.3	0
22	Mini-grid hybridization and demand side management on non-interconnected small islands: the case study of Ustica, Italy. E3S Web of Conferences, 2021, 238, 02008.	0.2	0
23	Impact of Forecast Uncertainty on Wind Farm Profitability. , 2019, , .		0
24	Feasibility analysis of a hybrid auxiliary power unit for pleasure boats. E3S Web of Conferences, 2020, 197, 05005.	0.2	0