

Gaetano Zizzo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

1,337
citations

16
h-index

35
g-index

100
ext. papers

1,770
ext. citations

4.3
avg, IF

4.95
L-index

#	Paper	IF	Citations
87	A Methodology for Exploiting Smart Prosumers' Flexibility in a Bottom-Up Aggregation Process. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 430	2.6	0
86	Frequency Dynamics in Fully Non-Synchronous Electrical Grids: A Case Study of an Existing Island. <i>Energies</i> , 2022 , 15, 2220	3.1	3
85	Generalized power-angle control for grid-forming converters: A structural analysis. <i>Sustainable Energy, Grids and Networks</i> , 2022 , 31, 100696	3.6	0
84	Grid-forming converters. A critical review of pilot projects and demonstrators. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 165, 112551	16.2	3
83	Transient Electrical Behaviour of the TF Superconducting Coils of Divertor Tokamak Test Facility During a Fast Discharge. <i>IEEE Transactions on Applied Superconductivity</i> , 2022 , 1-1	1.8	0
82	Grid Stability Improvement Using Synthetic Inertia by Battery Energy Storage Systems in Small Islands. <i>Energy</i> , 2022 , 124456	7.9	3
81	Transient DC-Arc Voltage Model in the Hybrid Switch of the DTT Fast Discharge Unit 2021 ,		1
80	Sustainable Energy Supply in Vietnam. <i>UNIPA Springer Series</i> , 2021 , 97-108	0.1	
79	Safety Protocols for Forensic Inspections in the Time of COVID-19: An Approach to Protect Practitioners. <i>IEEE Industry Applications Magazine</i> , 2021 , 2-6	0.6	
78	Analysis and Simulations of the Primary Frequency Control during a System Split in Continental Europe Power System. <i>Energies</i> , 2021 , 14, 1456	3.1	7
77	Forensic Inspections in the Time of Covid-19 2021 ,		1
76	A Methodology for Protection of Trees Against Lightning Strikes as a Measure to Prevent Fires and Loss of Human Life. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 3538-3544	4.3	1
75	A Comparison of Special Bonding Techniques for Transmission and Distribution Cables Under Normal and Fault Conditions. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 101-109	4.3	0
74	Solar-assisted heat pumps systems for domestic hot water production in small energy communities. <i>Solar Energy</i> , 2021 , 217, 113-133	6.8	7
73	An Original Control Strategy of Storage Systems for the Frequency Stability of Autonomous Grids with Renewable Power Generation. <i>Energies</i> , 2021 , 14, 4391	3.1	
72	Design optimization for the quench protection of DTT's superconducting toroidal field magnets. <i>Fusion Engineering and Design</i> , 2021 , 172, 112748	1.7	3
71	Frequency dynamics of power systems with temporally distributed disturbances. <i>Sustainable Energy, Grids and Networks</i> , 2021 , 28, 100536	3.6	0

70	Effects of COVID19 pandemic on the Italian power system and possible countermeasures. <i>Electric Power Systems Research</i> , 2021 , 201, 107514	3.5	3
69	Effect of Demand Side Management on the Operation of PV-Integrated Distribution Systems. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7551	2.6	0
68	. <i>IEEE Transactions on Industry Applications</i> , 2020 , 1-1	4.3	12
67	Real-Time Minimization Power Losses by Driven Primary Regulation in Islanded Microgrids. <i>Energies</i> , 2020 , 13, 451	3.1	3
66	Forensic Analysis of Fire in a Substation of a Commercial Center. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 3218-3223	4.3	3
65	Blockchain for power systems: Current trends and future applications. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 119, 109585	16.2	68
64	A Model for Assessing the Magnitude and Distribution of Sheath Currents in Medium and High-Voltage Cable Lines. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 6250-6257	4.3	4
63	A Model for the Study of Sheath Currents in Medium Voltage Cables for Industrial Application 2020 ,		3
62	Evaluation of the Administrative Phase-Out of Coal Power Plants on the Italian Electricity Market. <i>Energies</i> , 2020 , 13, 4596	3.1	0
61	A Review of Health Assessment Techniques for Distribution Transformers in Smart Distribution Grids. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8115	2.6	10
60	Conceptual Design and Modeling of the Toroidal Field Coils Circuit of DTT 2020 ,		3
59	A Comparison of Special Bonding Techniques for Transmission and Distribution Cables 2020 ,		1
58	A methodology for evaluating the flexibility potential of domestic air-conditioning systems 2020 ,		1
57	Evaluation of the optimal renewable electricity mix for Lampedusa island: The adoption of a technical and economical methodology. <i>Journal of Cleaner Production</i> , 2020 , 263, 121404	10.3	22
56	Electrical Safety of Resonant Grounding 2019 ,		2
55	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 4483-4489	4.3	9
54	Inter-area oscillations in the 500-kV Vietnamese power system 2019 ,		1
53	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 7310-7319	4.3	39

52	Transitions from grid-connected to island operation of Smart Microgrids 2019 ,		1
51	A Simplified Analytical Approach for Optimal Planning of Distributed Generation in Electrical Distribution Networks. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5446	2.6	24
50	Fall of Potential Measurement of the Earth Resistance in Urban Environments: Accuracy Evaluation. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 2337-2346	4.3	2
49	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 1126-1134	4.3	7
48	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 1208-1213	4.3	13
47	A Technical Approach to the Energy Blockchain in Microgrids. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 4792-4803	11.9	118
46	Building Automation and Control Systems and Electrical Distribution Grids: A Study on the Effects of Loads Control Logics on Power Losses and Peaks. <i>Energies</i> , 2018 , 11, 667	3.1	10
45	Methodologies for the Exploitation of Existing Energy Corridors. GIS Analysis and DTR Applications. <i>Energies</i> , 2018 , 11, 979	3.1	5
44	How Decarbonization, Digitalization and Decentralization are changing key power infrastructures. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 93, 483-498	16.2	106
43	New Energy Corridors in the Euro-Mediterranean Area: The Pivotal Role of Sicily. <i>Energies</i> , 2018 , 11, 1415	5.1	9
42	Technical Rules for Connecting PV Systems to the Distribution Grid: A Critical Comparison of the Italian and Vietnamese Frameworks 2018 ,		2
41	Driven Primary Regulation for Minimum Power Losses Operation in Islanded Microgrids. <i>Energies</i> , 2018 , 11, 2890	3.1	12
40	On the Distribution of Lightning Current among Interconnected Grounding Systems in Medium Voltage Grids. <i>Energies</i> , 2018 , 11, 771	3.1	8
39	Urban Energy Hubs and Microgrids: Smart Energy Planning for Cities 2017 , 129-175		0
38	Green Data Centres integration in smart grids: New frontiers for ancillary service provision. <i>Electric Power Systems Research</i> , 2017 , 148, 59-73	3.5	5
37	A distributed minimum losses optimal power flow for islanded microgrids. <i>Electric Power Systems Research</i> , 2017 , 152, 271-283	3.5	16
36	Influence of LV Neutral Grounding on Global Earthing Systems. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 22-31	4.3	6
35	Overgrid: A Fully Distributed Demand Response Architecture Based on Overlay Networks. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017 , 14, 471-481	4.9	29

34	A New Platform for Automatic Bottom-Up Electric Load Aggregation. <i>Energies</i> , 2017 , 10, 1682	3.1	7
33	Currents Distribution During a Fault in an MV Network: Methods and Measurements. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 4585-4593	4.3	13
32	On multi-objective optimal reconfiguration of MV networks in presence of different grounding. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2016 , 7, 97-105	3.7	5
31	Frequency stability in microgrid: control strategies and analysis of BESS aging effects 2016 ,		5
30	A Novel Operating Strategy for Customer-Side Energy Storages in Presence of Dynamic Electricity Prices. <i>Intelligent Industrial Systems</i> , 2015 , 1, 233-244		8
29	Designing an Energy Management System for smart houses 2015 ,		2
28	Smart city and public lighting 2015 ,		10
27	A method for the evaluation of fault current distribution in complex high voltage networks. <i>Electric Power Systems Research</i> , 2015 , 126, 100-110	3.5	4
26	An algorithm for simulating end-user behaviour in a real time pricing market 2015 ,		1
25	. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 2540-2550	8.9	54
24	Critical assessment of support for the evolution of photovoltaics and feed-in tariff(s) in Italy. <i>Sustainable Energy Technologies and Assessments</i> , 2015 , 9, 95-104	4.7	37
23	Impact of building automation control systems and technical building management systems on the energy performance class of residential buildings: An Italian case study. <i>Energy and Buildings</i> , 2014 , 69, 33-40	7	65
22	Managing electrical energy storage systems and shiftable loads with an innovative approach in energy districts 2014 ,		7
21	An analysis of feedin tariffs for solar PV in six representative countries of the European Union. <i>Solar Energy</i> , 2014 , 107, 530-542	6.8	138
20	Mixed heuristic-non linear optimization of energy management for hydrogen storage-based multi carrier hubs 2014 ,		4
19	An optimization approach for efficient management of EV parking lots with batteries recharging facilities. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2013 , 4, 641-649	3.7	31
18	2013 ,		3
17	A Self-Adapting Approach for Forecast-Less Scheduling of Electrical Energy Storage Systems in a Liberalized Energy Market. <i>Energies</i> , 2013 , 6, 5738-5759	3.1	21

16	Smart renewable generation for an islanded system. Technical and economic issues of future scenarios. <i>Energy</i> , 2012 , 39, 196-204	7.9	73
15	A new representation of energy storage systems operation using Fourier theory in optimal smart grids management 2012 ,		3
14	A simple unsynchronized two-end algorithm for faults location and identification in electrical distribution systems. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2012 , 31, 636-655	0.7	2
13	Transition of a distribution system towards an active network. Part II: Economical analysis of selected scenario 2011 ,		14
12	Transition of a distribution system towards an active network. Part I: Preliminary design and scenario perspectives 2011 ,		18
11	The New Course of FITs Mechanism for PV Systems in Italy: Novelties, Strong Points and Criticalities 2011 ,		3
10	A New Meta-Heuristic Multi-Objective Approach For Optimal Dispatch of Dispersed and Renewable Generating Units in Power Distribution Systems 2011 , 162-181		2
9	Dynamics photovoltaic generators: Technical aspects and economical valuation 2010 ,		14
8	A Double-Shell Design Approach for Multiobjective Optimal Design of Microgrids. <i>Smart Innovation, Systems and Technologies</i> , 2010 , 65-73	0.5	
7	Considering safety issues in minimum losses reconfiguration for MV distribution networks. <i>European Transactions on Electrical Power</i> , 2009 , 19, 642-654		10
6	Comparative analysis of different supporting measures for the production of electrical energy by solar PV and Wind systems: Four representative European cases. <i>Solar Energy</i> , 2009 , 83, 287-297	6.8	147
5	A new model for a safety analysis in a system of earthing systems interconnected through bare-buried conductors. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2009 , 28, 412-436	0.7	10
4	A Method to Evaluate Voltages to Earth During an Earth Fault in an HV Network in a System of Interconnected Earth Electrodes of MV/LV Substations. <i>IEEE Transactions on Power Delivery</i> , 2008 , 23, 1763-1772	4.3	14
3	Analysis of interconnected earthing systems of MV/LV substations in urban areas 2008 ,		14
2	Optimal Sizing and Siting of Distributed Energy Resources Considering Public and Private Incentive Policies. <i>Lecture Notes in Computer Science</i> , 2008 , 570-579	0.9	2
1	A mathematical approach for studying interconnected earthing systems inside MV networks. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2007 , 26, 1364-1391	0.7	7