## Giambattista Gruosso

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Model of Photovoltaic Power Plants for Performance Analysis and Production Forecast. IEEE Transactions on Sustainable Energy, 2013, 4, 278-285.	5.9	94
2	Wave energy farm design in real wave climates: the Italian offshore. Energy, 2017, 122, 378-389.	4.5	55
3	Limiting gaming opportunities on incentive-based demand response programs. Applied Energy, 2018, 225, 668-681.	5.1	48
4	Li-Ion Batteries Parameter Estimation With Tiny Neural Networks Embedded on Intelligent IoT Microcontrollers. IEEE Access, 2020, 8, 122135-122146.	2.6	47
5	Integral methods for analysis and design of low-frequency conductive shields. IEEE Transactions on Magnetics, 2003, 39, 2009-2017.	1.2	37
6	Uncertainty-Aware Computational Tools for Power Distribution Networks Including Electrical Vehicle Charging and Load Profiles. IEEE Access, 2019, 7, 9357-9367.	2.6	35
7	A time-of-use pricing strategy for managing electric vehicle clusters. Sustainable Energy, Grids and Networks, 2021, 25, 100411.	2.3	32
8	Probabilistic load flow methodology for distribution networks including loads uncertainty. International Journal of Electrical Power and Energy Systems, 2019, 106, 392-400.	3.3	31
9	Field and Circuit Approaches for Diffusion Phenomena in Magnetic Cores. IEEE Transactions on Magnetics, 2004, 40, 1322-1325.	1.2	30
10	Design of Tubular Permanent Magnet Generators for Vehicle Energy Harvesting by Means of Social Network Optimization. IEEE Transactions on Industrial Electronics, 2018, 65, 1884-1892.	5.2	30
11	Joined Probabilistic Load Flow and Sensitivity Analysis of Distribution Networks Based on Polynomial Chaos Method. IEEE Transactions on Power Systems, 2020, 35, 618-627.	4.6	30
12	Improved Small-Signal Analysis for Circuits Working in Periodic Steady State. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 427-437.	3.5	29
13	Magnetic design optimization and objective function approximation. IEEE Transactions on Magnetics, 2003, 39, 2154-2162.	1.2	27
14	Hardware-in-the-Loop Framework for Validation of Ancillary Service in Microgrids: Feasibility, Problems and Improvement. IEEE Access, 2019, 7, 58104-58112.	2.6	24
15	Periodic noise analysis of electric circuits: Artifacts, singularities and a numerical method. International Journal of Circuit Theory and Applications, 2010, 38, 689-708.	1.3	21
16	Genetic optimisation of radial eddy current couplings. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 767-783.	0.5	20
17	Smart Grid Simulation Including Communication Network: A Hardware in the Loop Approach. IEEE Access, 2019, 7, 90171-90179.	2.6	20
18	Finite formulation of nonlinear magnetostatics with Integral boundary conditions. IEEE Transactions on Magnetics, 2006, 42, 1503-1511.	1.2	19

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19	Optimization of a linear generator for sea-wave energy conversion by means of a hybrid evolutionary algorithm. , 2010, , .		19
20	Data-driven uncertainty analysis of distribution networks including photovoltaic generation. International Journal of Electrical Power and Energy Systems, 2020, 121, 106043.	3.3	19
21	Novel modeling design of three phase tubular permanent magnet linear generator for marine applications. , 2009, , .		18
22	Forecasting of electrical vehicle impact on infrastructure: Markov chains model of charging stations occupation. ETransportation, 2020, 6, 100083.	6.8	17
23	A Virtual Sensor for Electric Vehicles' State of Charge Estimation. Electronics (Switzerland), 2020, 9, 278.	1.8	17
24	Determination of Floquet Exponents for Small-Signal Analysis of Nonlinear Periodic Circuits. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2009, 28, 447-451.	1.9	16
25	Micro-inverter for solar power generation. , 2012, , .		16
26	A time-of-use-based residential electricity demand model for smart grid applications. , 2016, , .		15
27	Dataâ€driven approach to model electrical vehicle charging profile for simulation of grid integration scenarios. IET Electrical Systems in Transportation, 2019, 9, 168-175.	1.5	15
28	A Novel Energy-Efficiency Optimization Approach Based on Driving Patterns Styles and Experimental Tests for Electric Vehicles. Electronics (Switzerland), 2021, 10, 1199.	1.8	15
29	A Boundary Integral Formulation for Eddy Current Problems Based on the Cell Method. IEEE Transactions on Magnetics, 2008, 44, 770-773.	1.2	14
30	Analysis of impact of electrical vehicle charging on low voltage power grid. , 2016, , .		14
31	Power hardware in the loop simulator of photovoltaic plant for smart grid interation analysis. , 2017, , .		14
32	A novel ramp-rate control of grid-tied PV-Battery systems to reduce required battery capacity. Energy, 2020, 210, 118433.	4.5	14
33	Magnetic core model for circuit simulations including losses and hysteresis. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2008, 21, 309-334.	1.2	13
34	FSSA: Fast Steady-State Algorithm for the Analysis of Mixed Analog/Digital Circuits. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2010, 29, 528-537.	1.9	13
35	Two Levels Modeling for the Optimization of Electromagnetic Actuators. IEEE Transactions on Magnetics, 2009, 45, 1724-1727.	1.2	12
36	Robust Harmonic-Probe Method for the Simulation of Oscillators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 2531-2541.	3.5	12

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37	Gaussian Copula Methodology to Model Photovoltaic Generation Uncertainty Correlation in Power Distribution Networks. Energies, 2021, 14, 2349.	1.6	12
38	Dynamic model, parameter extraction, and analysis of two topologies of a tubular linear generator for seawave energy production. , 2014, , .		11
39	A reliable and efficient black box model of SF6 medium voltage circuit breakers. International Journal of Electrical Power and Energy Systems, 2020, 119, 105863.	3.3	11
40	Multiphysics Modeling of Audio Circuits With Nonlinear Transformers. AES: Journal of the Audio Engineering Society, 2021, 69, 374-388.	0.8	11
41	Wave energy production in Italian offshore: Preliminary design of a point absorber with tubular linear generator. , 2013, , .		10
42	Unstructured PEEC formulation by dual discretization. IEEE Microwave and Wireless Components Letters, 2006, 16, 531-533.	2.0	9
43	Identification Method for a Circuit Model of Scalar Static Hysteresis. IEEE Transactions on Magnetics, 2004, 40, 3467-3473.	1.2	8
44	3D source simulation method for static fields in inhomogeneous media. International Journal for Numerical Methods in Engineering, 2007, 70, 1096-1111.	1.5	8
45	Ancillary Service with Grid Connected PV: A Real-Time Hardware-in-the-Loop Approach for Evaluation of Performances. Electronics (Switzerland), 2019, 8, 809.	1.8	8
46	Synthesis of linear actuators. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2001, 20, 713-723.	0.5	7
47	Insulated Joint for Corrosion Protection of Buried Subway Gallery Structure: Consideration on Cable Ground Connection. IEEE Transactions on Power Delivery, 2006, 21, 966-970.	2.9	7
48	An optimized three phase TPM-LiG for marine applications. , 2010, , .		7
49	Modeling and estimating yield and efficiency of photovoltaic solar parks. , 2013, , .		7
50	Object based modelling of hybrid electrical vehicle and power management control. , 2015, , .		7
51	ROBI': A Prototype Mobile Manipulator for Agricultural Applications. Electronics (Switzerland), 2017, 6, 39.	1.8	7
52	Analysis of Electrical Vehicle behavior from real world data: a V2I Architecture. , 2018, , .		7
53	Modeling Photovoltaic Generation Uncertainties for Monte Carlo Method based Probabilistic Load Flow Analysis of Distribution Network. , 2020, , .		7
54	Multidomain modeling of nonlinear electromagnetic circuits using wave digital filters. International Journal of Circuit Theory and Applications, 2022, 50, 539-561.	1.3	7

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55	Towards a comprehensive framework for V2G optimal operation in presence of uncertainty. Sustainable Energy, Grids and Networks, 2022, 31, 100740.	2.3	7
56	Real-time power management strategy in power-split hybrid electric vehicle. , 2014, , .		6
57	Model based design of power management for hybrid electric vehicle. , 2015, , .		6
58	Complex-Array-Operation Newton Solver for Power Grids Simulations. IEEE Access, 2020, 8, 47984-47992.	2.6	6
59	Electric Vehicle Fleets as Balancing Instrument in Micro-Grids. Energies, 2021, 14, 7616.	1.6	6
60	Analysis and Design of a Smart Controller for Managing Penetration of Renewable Energy Including Cybersecurity Issues. Electronics (Switzerland), 2022, 11, 1861.	1.8	6
61	Optimal shielding of low frequency fields. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2004, 23, 173-186.	0.5	5
62	Bio-inspired optimization techniques for wireless energy transfer. , 2010, , .		5
63	Design and simulation of a power management unit in a solar based electric propulsion system. , 2012, , ·		5
64	Towards a nearly optimal synthesis of power bridge commands in the driving of AC motors. , 2012, , .		5
65	ADDA: Almost direct drive architecture for solar high power electrical propulsion in new generation spacecrafts. , 2012, , .		5
66	Probe Based Shooting Method to Find Stable and Unstable Limit Cycles of Strongly Nonlinear High-\$Q\$ Oscillators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1870-1880.	3.5	5
67	A Data Driven Approach to Model Electrical Vehicle Charging Behaviour for Grid Integration Analysis. , 2018, , .		5
68	Hardware in the loop Framework for analysis of Impact of Electrical Vehicle Charging Devices on Distribution network. , 2020, , .		5
69	Interoperability analysis of IEC61850 protocol using an emulated IED in a HIL microgrid testbed. , 2021, ,		5
70	Microcontroller architectures for battery state of charge prediction with tiny neural networks. , 2021, , .		5
71	Adaptive manifoldâ€mapping using multiquadric interpolation applied to linear actuator design. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 225-235.	0.5	4
72	Mechatronic Design of the Sun Tracking System of a Linear Fresnel Reflector Solar Plant. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 248-254.	0.4	4

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73	Sea wave generation: Generator arrays combined with VOC converter for efficient energy conversion in Italian Seas. , 2015, , .		4
74	Reactive Power Injection to Mitigate Frequency Transients Using Grid Connected PV Systems. Energies, 2020, 13, 1998.	1.6	4
75	Energy price forecasting for optimal managing of electric vehicle fleet. IET Electrical Systems in Transportation, 2020, 10, 401-408.	1.5	4
76	Mechatronic model of oscillations in hybrid stepper motors. , 2010, , .		3
77	Comparison among passive and active rectifier for seawave energy production. , 2015, , .		3
78	A Model to Estimate the Impact of Electrical Vehicles Displacement on Medium Voltage Network. , 2018, , .		3
79	State of Charge Estimation of LiFePO4 Battery Used in Electric Vehicles Using Support Vector Regression, PCA and DP Battery Model. , 2019, , .		3
80	Steady State Simulation of Mixed Analog/Digital Circuits. , 2013, , 243-270.		3
81	Magnetostatic solution by hybrid technique and fast multipole method. Physica B: Condensed Matter, 2008, 403, 368-371.	1.3	2
82	Force Computation by Hybrid Cell Method. IEEE Transactions on Magnetics, 2008, 44, 1198-1201.	1.2	2
83	Threeâ€dimensional eddy current analysis in unbounded domains by a DEMâ€BEM formulation. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 460-466.	0.5	2
84	A Probe-Based Harmonic Balance Method to Simulate Coupled Oscillators. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2011, 30, 960-971.	1.9	2
85	Time domain probe insertion to find steady state of strongly nonlinear high-Q oscillators. , 2013, , .		2
86	Spatial interactions among oscillating wave energy converters: Electricity production and power quality issues. , 2016, , .		2
87	Implementation of an IoT Node for Biomedical Applications. , 2018, , .		2
88	Definition and Analysis of an Innovative Ancillary Service for Microgrid Stability Improvement. , 2018, ,		2
89	Proposal for Modeling Electric Vehicle Battery Using Experimental Data and Considering Temperature Effects. , 2019, , .		2
90	A Model of Electric Vehicle Recharge Stations based on Cyclic Markov Chains. , 2019, , .		2

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91	Hardware In the Loop Simulation of a Microgrid: Framework for integration of Different Real Time devices. , 2020, , .		2
92	Li-Ion Batteries Releasable Capacity Estimation with Neural Networks on Intelligent IoT Microcontrollers. , 2020, , .		2
93	Hardware in the Loop Implementation of the Oscillator-based Heart Model: A Framework for Testing Medical Devices. Electronics (Switzerland), 2020, 9, 571.	1.8	2
94	Control Algorithm Extension for Series Power Electronic Converter. , 2021, , .		2
95	Fault Current Limiting Implementation in a Series Power Electronic Converter. , 2021, , .		2
96	Evaluation of Voltage Exposures Due to AC/DC Stray Currents. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	1
97	Investigation of lowâ€frequency behaviour of two surface integral fullâ€Maxwell formulations. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 842-858.	0.5	1
98	Multi-probe harmonic balance method to simulate coupled oscillators. , 2009, , .		1
99	Automated TPM-LiG modeling for WSN subsystems in marine environment. , 2010, , .		1
100	An innovative device for traffic energy harvesting. , 2012, , .		1
101	Power transfer optimization of wireless energy harvesting system. , 2012, , .		1
102	MTFS: Mixed Time–Frequency Method for the Steady-State Analysis of Almost-Periodic Nonlinear Circuits. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2012, 31, 1346-1355.	1.9	1
103	Electrical Unmanned Vehicle Architecture for Precision Farming Applications. , 2017, , .		1
104	A model based approach for the analysis and simulation of a hybrid bus in an urban context. International Journal of Vehicle Performance, 2018, 4, 222.	0.2	1
105	Information Integration Issues for Monitoring Performance Metrics of a Microgrid. , 2018, , .		1
106	Price Based Optimization for Electrical Vehicle Charging Scheduling. , 2019, , .		1
107	Modelling of magnetic components for power electronics: a circuit equivalent approach. , 2019, , .		1
108	A model based approach for the analysis and simulation of a hybrid bus in an urban context. International Journal of Vehicle Performance, 2018, 4, 222.	0.2	1

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109	Modelling of Photovoltaic Systems for Real-Time Hardware Simulation. Lecture Notes in Electrical Engineering, 2020, , 3-15.	0.3	1
110	Study on the Torque-Speed Allocation on PMSM to Improve Energy Efficiency in Electric Vehicles Using Metaheuristic Optimization. , 2021, , .		1
111	Identification and simulation of a circuitâ€based model of magnetic hysteresis. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 534-545.	0.5	0
112	Implementation of a network model of hysteresis. Physica B: Condensed Matter, 2006, 372, 53-56.	1.3	0
113	Evaluation of Voltage Exposures Due to AC/DC Stray Currents. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	0
114	QR factorisation in the shooting method. , 2008, , .		0
115	Coupling of finite formulation with integral techniques. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 37-46.	0.5	0
116	Optimized linear generator for vehicle energy harvesting by social network optimization algorithm. , 2017, , .		0
117	A contract for demand response based on probability of call. , 2018, , .		0
118	Magnetization sources in 3D magnetostatic finite formulation. Revue Internationale De Génie électrique, 2005, 8, 23-33.	0.0	0
119	Piece-Wise Linear (PWL) Probabilistic Analysis of Power Grid with High Penetration PV Integration.	1.6	Ο