

# Mario Russo

## List of Publications by Year in descending order

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52  
papers

794  
citations

759233

12  
h-index

526287

27  
g-index

52  
all docs

52  
docs citations

52  
times ranked

744  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling Guidelines and a Benchmark for Power System Simulation Studies of Three-Phase Single-Stage Photovoltaic Systems. IEEE Transactions on Power Delivery, 2011, 26, 1247-1264.	4.3	301
2	Decentralized Control of Distributed Generation for Voltage Profile Optimization in Smart Feeders. IEEE Transactions on Smart Grid, 2013, 4, 1586-1596.	9.0	70
3	Linear method for steady-state analysis of radial distribution systems. International Journal of Electrical Power and Energy Systems, 2018, 99, 744-755.	5.5	47
4	Zoning Evaluation for Voltage Optimization in Distribution Networks with Distributed Energy Resources. Energies, 2019, 12, 390.	3.1	29
5	An Overview on Functional Integration of Hybrid Renewable Energy Systems in Multi-Energy Buildings. Energies, 2021, 14, 1078.	3.1	29
6	Adaptive Voltage Regulator Design for Synchronous Generator. IEEE Transactions on Energy Conversion, 2008, 23, 946-956.	5.2	26
7	Sensitivity-Based Model of Low Voltage Distribution Systems with Distributed Energy Resources. Energies, 2016, 9, 801.	3.1	26
8	Smart modeling and tools for Distribution System Management and operation. , 2012, , .		24
9	Robust MIMO Design of Decentralized Voltage Controllers of PV Systems in Distribution Networks. IEEE Transactions on Industrial Electronics, 2017, 64, 4610-4620.	7.9	19
10	Nonlinear control design for excitation controller and power system stabilizer. Control Engineering Practice, 2011, 19, 243-251.	5.5	18
11	A Decentralized Approach for Voltage Control by Multiple Distributed Energy Resources. IEEE Transactions on Smart Grid, 2021, 12, 3115-3127.	9.0	14
12	Coordinated Optimization for Zone-Based Voltage Control in Distribution Grids. IEEE Transactions on Industry Applications, 2022, 58, 173-184.	4.9	14
13	A smart device for islanding detection in distribution system operation. Electric Power Systems Research, 2015, 120, 87-95.	3.6	13
14	DistOpt: A Software Framework for Modeling and Evaluating Optimization Problem Solutions in Distributed Environments. Journal of Parallel and Distributed Computing, 2000, 60, 741-763.	4.1	12
15	Decentralized Voltage Control in Active Distribution Systems: Features and Open Issues. Energies, 2021, 14, 2563.	3.1	12
16	Photovoltaic generator modelling to improve numerical robustness of EMT simulation. Electric Power Systems Research, 2012, 83, 136-143.	3.6	11
17	Decentralized voltage control of distributed generation using a distribution system structural MIMO model. Control Engineering Practice, 2016, 47, 81-90.	5.5	11
18	Zoning Evaluation for Voltage Control in Smart Distribution Networks. , 2018, , .		10

#	ARTICLE	IF	CITATIONS
19	A New Protection System for Islanding Detection in LV Distribution Systems. <i>Energies</i> , 2015, 8, 3775-3793.	3.1	9
20	Robust decentralized PI controllers design for voltage regulation in distribution networks with DG. <i>Electric Power Systems Research</i> , 2019, 172, 129-139.	3.6	9
21	Adaptive voltage regulator design for static VAR systems. <i>Control Engineering Practice</i> , 2001, 9, 759-767.	5.5	8
22	Smart DER control for minimizing power losses in distribution feeders. <i>Electric Power Systems Research</i> , 2014, 109, 71-79.	3.6	8
23	Tuning of multivariable PI robust controllers for the decentralized voltage regulation in grid-connected distribution networks with Distributed Generation. <i>International Journal of Dynamics and Control</i> , 2020, 8, 278-290.	2.5	8
24	Design of decentralized robust controller for voltage regulation and stabilization of multimachine power systems. <i>International Journal of Control, Automation and Systems</i> , 2013, 11, 277-285.	2.7	7
25	Islanding detection method based on a Thevenin-like model. <i>IET Generation, Transmission and Distribution</i> , 2015, 9, 1747-1754.	2.5	7
26	Economical considerations about combined cycle power plant control in deregulated markets. <i>International Journal of Electrical Power and Energy Systems</i> , 2006, 28, 284-292.	5.5	6
27	Decentralized Voltage Optimization Based on the Auxiliary Problem Principle in Distribution Networks with DERs. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4509.	2.5	6
28	Decentralised voltage regulation in smart grids using reactive power from renewable DG. , 2012, , .		5
29	Distributed Voltage Optimization based on the Auxiliary Problem Principle in Active Distribution Systems. , 2020, , .		5
30	A simulation tool for voltage control studies in power systems. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2008, 14, 127-145.	2.2	4
31	Hardware-in-the-Loop Validation of Energy Management Systems for Microgrids: A Short Overview and a Case Study. <i>Energies</i> , 2018, 11, 2978.	3.1	4
32	A Procedure to Determine the Droop Constants of Voltage Controllers Coping with Multiple DG Interactions in Active Distribution Systems. <i>Energies</i> , 2020, 13, 1935.	3.1	4
33	A nonlinear control of synchronous generator excitation for voltage regulation in power systems. , 2008, , .		3
34	Enhancing distribution networks to evolve toward smart grids: The voltage control problem. , 2013, , .		3
35	A static-commutated device to contain voltage variations for low-voltage active users. <i>IET Electric Power Applications</i> , 2021, 15, 1095-1110.	1.8	3
36	On the relevance of reliability assessment for wind farm performance evaluation. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
37	Decentralized Voltage Optimization based on Network Partitioning in Distribution Systems with DGs. , 2019, , .		2
38	Zone-Based Voltage Optimization in Distribution Grids with DGs. , 2020, , .		2
39	DSOs and active demand: Address project outcomes and perspectives. , 2013, , .		1
40	Optimal reactive power control of distribution feeders with distributed energy resources: Interaction analysis and validation. , 2014, , .		1
41	Testing New Reactive Power Control of DERs by Real-Time Simulation. International Journal of Emerging Electric Power Systems, 2014, 15, 151-159.	0.8	1
42	Performance of an Adaptive Voltage Regulator Adopting Different Identification Algorithms. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 295-300.	0.4	0
43	NODAL VOLTAGE CONTROL IN POWER SYSTEMS BASED ON THE MODEL-REFERENCE ADAPTIVE APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 103-108.	0.4	0
44	Generalized Minimum Variance Implicit Self-tuning Nodal Voltage Regulation in Power Systems with Pole-assignment Technique. , 2006, , .		0
45	DISCRETE-TIME MODEL REFERENCE ADAPTIVE REGULATION OF NODAL VOLTAGE AMPLITUDE IN POWER SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 107-112.	0.4	0
46	Direct Adaptive Nodal Voltage Regulation in Electrical Power Systems. , 2006, , .		0
47	Robust design of excitation controller for transient stability and voltage regulation in power systems. , 2010, , .		0
48	A straightforward design of decentralized controllers for multimachine power systems. , 2011, , .		0
49	Controller design for voltage regulation and stabilization in multimachine power systems. , 2012, , .		0
50	Performance evaluation of a DG voltage controller for smart grids. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 49-54.	0.4	0
51	Computationally-efficient simulation of electric industrial plants. , 2015, , .		0
52	MIMO design of voltage controllers for distributed generators. , 2016, , .		0