

# Charis Demoulias

## List of Publications by Year in descending order

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79  
papers

1,282  
citations

394390

19  
h-index

414395

32  
g-index

79  
all docs

79  
docs citations

79  
times ranked

1217  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ancillary services provision in terminal distribution systems. , 2023, , 411-424.		4
2	A short communication to define the overcurrent protection system of the CIGRE European benchmark distribution networks for RES penetration studies. Electrical Engineering, 2022, 104, 1331-1336.	2.0	3
3	A new perspective on the synchronverter model. International Journal of Electrical Power and Energy Systems, 2022, 140, 108072.	5.5	13
4	Distributed methodology for reactive power support of transmission system. Sustainable Energy, Grids and Networks, 2022, 31, 100753.	3.9	3
5	A Generic Power Flow Algorithm for Unbalanced Islanded Hybrid AC/DC Microgrids. IEEE Transactions on Power Systems, 2021, 36, 1107-1120.	6.5	29
6	Distributed Reactive Power Control Scheme for the Voltage Regulation of Unbalanced LV Grids. IEEE Transactions on Sustainable Energy, 2021, 12, 1301-1310.	8.8	12
7	Energy Management In Converter-Interfaced Renewable Energy Sources Through Ultracapacitors For Provision Of Ancillary Services. , 2021, , .		3
8	Ramp-Rate Control of DRES employing Supercapacitors in Distribution Systems. , 2021, , .		5
9	Two-stage Approach for the Provision of Time-Dependent Flexibility at TSO-DSO Interface. , 2021, , .		1
10	Distributed Methodology for Reactive Power Support of Transmission System. , 2021, , .		1
11	Provision of Primary Frequency Response as Ancillary Service From Active Distribution Networks to the Transmission System. IEEE Transactions on Smart Grid, 2021, 12, 4971-4982.	9.0	12
12	Short-term Energy Recovery Control for Virtual Inertia Provision by Renewable Energy Sources. , 2021, , .		1
13	A Two-Stage Solution to the Bi-Objective Optimal Voltage Regulation Problem. IEEE Transactions on Sustainable Energy, 2020, 11, 928-937.	8.8	18
14	Ancillary Services Offered by Distributed Renewable Energy Sources at the Distribution Grid Level: An Attempt at Proper Definition and Quantification. Applied Sciences (Switzerland), 2020, 10, 7106.	2.5	22
15	Ancillary Services Market Design in Distribution Networks: Review and Identification of Barriers. Energies, 2020, 13, 917.	3.1	81
16	Hybrid multi-agent-based adaptive control scheme for AC microgrids with increased fault-tolerance needs. IET Renewable Power Generation, 2020, 14, 13-26.	3.1	9
17	Provision of inertial response as ancillary service from active distribution networks to the transmission system. IET Generation, Transmission and Distribution, 2020, 14, 5123-5134.	2.5	9
18	Protection philosophy in low short-circuit capacity distribution grids with high penetration of converter-interfaced distributed renewable energy sources. IET Generation, Transmission and Distribution, 2020, 14, 4978-4988.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Ancillary Services in Hybrid AC/DC Low Voltage Distribution Networks. <i>Energies</i> , 2019, 12, 3591.	3.1	6
20	Estimation of Additional PV Converter Losses Operating Under PF $\hat{=}$ 1 Based on Manufacturer's Data at PF = 1. <i>IEEE Transactions on Energy Conversion</i> , 2019, 34, 540-553.	5.2	10
21	Design of Space Microgrid for Manned Lunar Base: Spinning-in Terrestrial Technologies. , 2019, , .		8
22	PWM and FCS-MPC in a Single Phase Converter with L Filter: An Extensive Comparison. , 2019, , .		0
23	A new voltage control scheme for active medium-voltage (MV) networks. <i>Electric Power Systems Research</i> , 2019, 169, 53-64.	3.6	27
24	Power Flow of Islanded AC Microgrids: Revisited. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 3903-3905.	9.0	49
25	A Coordinated Droop Control Strategy for Overvoltage Mitigation in Active Distribution Networks. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 5260-5270.	9.0	38
26	An improved decentralised coordinated control scheme for microgrids with AC-coupled units. , 2018, , .		1
27	A conceptual framework for energy loss minimization in meshed MV networks. , 2018, , .		0
28	Performance of solid-state transformers on voltage regulation of active distribution networks. , 2017, , .		2
29	Fault detection and clearing control strategy in an islanded microgrid with converter-interfaced sources. , 2017, , .		0
30	Analytical evaluation of the annual load duration curve of domestic prosumers. , 2017, , .		2
31	Supercapacitor sizing based on comparative study of PV power smoothing methods. , 2017, , .		9
32	A probabilistic evaluation of voltage control strategies in active MV networks. , 2017, , .		4
33	Analytical calculation of the PV converter efficiency curve at non-unity power factors. , 2017, , .		5
34	Novel hybrid design for microgrid control. , 2017, , .		10
35	A Control Method for Balancing the SoC of Distributed Batteries in Islanded Converter-Interfaced Microgrids. <i>Advances in Power Electronics</i> , 2016, 2016, 1-11.	0.8	5
36	An enhanced decentralized voltage regulation scheme for the reduction of tap changes in HV/MV transformers under high DG penetration. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
37	Long-term evaluation of DRES penetration in LV networks using droop control techniques. , 2016, , .		0
38	Impedance-based adaptive droop method in islanded microgrids with three-phase and single-phase converters for line loss reduction. , 2016, , .		1
39	A Nearly Decentralized Voltage Regulation Algorithm for Loss Minimization in Radial MV Networks With High DG Penetration. IEEE Transactions on Sustainable Energy, 2016, 7, 1430-1439.	8.8	33
40	An adaptive droop control method for balancing the SoC of distributed batteries in AC microgrids. , 2016, , .		14
41	Coordinated phase-based voltage regulation in active unbalanced LV distribution networks. , 2016, , .		0
42	Interconnection of offshore wind farms using variable frequency in offshore AC grids. , 2016, , .		1
43	Frequency-based control of islanded microgrid with renewable energy sources and energy storage. Journal of Modern Power Systems and Clean Energy, 2016, 4, 54-62.	5.4	51
44	A decentralized impedance-based adaptive droop method for power loss reduction in a converter-dominated islanded microgrid. Sustainable Energy, Grids and Networks, 2016, 5, 39-49.	3.9	23
45	A Fault Clearing Method in Converter-Dominated Microgrids With Conventional Protection Means. IEEE Transactions on Power Electronics, 2016, 31, 4628-4640.	7.9	129
46	Reactive power consumption in photovoltaic inverters: a novel configuration for voltage regulation in low-voltage radial feeders with no need for central control. Progress in Photovoltaics: Research and Applications, 2015, 23, 611-619.	8.1	7
47	Voltage dip mitigation capabilities of three-phase damping control strategy. Electric Power Systems Research, 2015, 121, 192-199.	3.6	23
48	Fault ride-through capability of a DFIG in isolated grids employing DVR and supercapacitor energy storage. International Journal of Electrical Power and Energy Systems, 2015, 68, 356-363.	5.5	36
49	A control strategy for enhancing the Fault Ride-Through capability of a microgrid during balanced and unbalanced grid voltage sags. Sustainable Energy, Grids and Networks, 2015, 3, 1-11.	3.9	28
50	A simulation tool for extended distribution grids with controlled distributed generation. , 2015, , .		18
51	An enhanced role for an energy storage system in a microgrid with converter-interfaced sources. Journal of Engineering, 2014, 2014, 618-625.	1.1	14
52	Analytical Calculation of the Electrical Energy Losses on Fixed-Mounted PV Plants. IEEE Transactions on Sustainable Energy, 2014, 5, 1080-1089.	8.8	14
53	A combined fault ride-through and power smoothing control method for full-converter wind turbines employing Supercapacitor Energy Storage System. Electric Power Systems Research, 2014, 106, 62-72.	3.6	65
54	Fault clearing in a converter-dominated microgrid with traditional protection means. , 2014, , .		0

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55	FRT capability of a DFIG in isolated grids with Dynamic Voltage Restorer and Energy Storage. , 2014, , .		4
56	A control strategy for inverter-interfaced microgrids under symmetrical and asymmetrical faults. , 2013, , .		5
57	A decentralized voltage regulation method in low-voltage feeders with PV systems and domestic loads. , 2013, , .		7
58	Fault ride-through capability of a microgrid with wtgs and supercapacitor storage during balanced and unbalanced utility voltage sags. , 2013, , .		14
59	Minimization of Electrical Losses in Two-Axis Tracking PV Systems. IEEE Transactions on Power Delivery, 2013, 28, 2445-2455.	4.3	13
60	A new Fault Ride-Through control method for full-converter wind turbines employing Supercapacitor Energy Storage System. , 2012, , .		6
61	Control of a micro grid supplied by renewable energy sources and storage batteries. , 2012, , .		10
62	Microgrid wireless energy management with energy storage system. , 2012, , .		15
63	Voltage regulation in low-voltage rural feeders with distributed PV systems. , 2011, , .		13
64	Modeling and Field Measurements of Photovoltaic Units Connected to LV Grid. Study of Penetration Scenarios. IEEE Transactions on Power Delivery, 2011, 26, 979-987.	4.3	53
65	A new simple analytical method for calculating the optimum inverter size in grid-connected PV plants. Electric Power Systems Research, 2010, 80, 1197-1204.	3.6	84
66	Analysis of the voltage harmonic distortion at buses feeding office loads. IET Science, Measurement and Technology, 2009, 3, 286-301.	1.6	7
67	Distribution of non-sinusoidal currents in parallel conductors used in three-phase four-wire networks. Electric Power Systems Research, 2009, 79, 766-780.	3.6	9
68	Modeling and measurement of small Photovoltaic systems and penetration scenarios. , 2009, , .		5
69	Influence of metallic trays on the ac resistance and ampacity of low-voltage cables under non-sinusoidal currents. Electric Power Systems Research, 2008, 78, 883-896.	3.6	7
70	Harmonic impact of small photovoltaic systems connected to the LV distribution network. , 2008, , .		49
71	Natural canceling of current harmonics in office loads and its effect upon the transmission capacity of distribution cables. , 2008, , .		1
72	Voltage Harmonic Distortion at Buses Feeding Office Loads. , 2007, , .		0

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73	Voltage Multiple-Zero-Crossings at Buses Feeding Large Triac-Controlled Loads. IEEE Transactions on Industrial Electronics, 2007, 54, 2853-2863.	7.9	8
74	Ampacity of Low-Voltage Power Cables Under Nonsinusoidal Currents. IEEE Transactions on Power Delivery, 2007, 22, 584-594.	4.3	45
75	Harmonics-induced problems in theatrical-lighting installation: Real-case measurements and proposed solutions. , 2005, , .		3
76	Cable Overheating in an Industrial Substation Feeder Due to Untransposed Power Cables - Measurement and Simulation. , 2005, , .		3
77	Electrical transients of wind turbines in a small power grid. IEEE Transactions on Energy Conversion, 1996, 11, 636-642.	5.2	24
78	Transient behaviour and self-excitation of wind-driven induction generator after its disconnection from the power grid. IEEE Transactions on Energy Conversion, 1990, 5, 272-278.	5.2	27
79	Transient forces in three phase gas cables. Archiv Fuer Elektrotechnik, 1985, 68, 241-248.	0.1	2