Irma Chacn

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.

108 61 3,952 32 h-index g-index citations papers 5,060 6.06 5.6 125 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
108	Model-Free Voltage Calculations for PV-Rich LV Networks: Smart Meter Data and Deep Neural Networks 2021 ,		1
107	Multi-year planning of LV networks with EVs accounting for customers, emissions and techno-economics aspects: A practical and scalable approach. <i>IET Generation, Transmission and Distribution</i> , 2021 , 15, 468-479	2.5	1
106	Quantifying the effects of medium voltageIbw voltage distribution network constraints and distributed energy resource reactive power capabilities on aggregators. <i>IET Generation, Transmission and Distribution</i> , 2021 , 15, 2019-2032	2.5	2
105	. IEEE Transactions on Smart Grid, 2021 , 12, 2929-2940	10.7	2
104	Grid and Market Services From the Edge: Using Operating Envelopes to Unlock Network-Aware Bottom-Up Flexibility. <i>IEEE Power and Energy Magazine</i> , 2021 , 19, 52-62	2.4	7
103	Asset Congestion and Voltage Management in Large-Scale MV-LV Networks With Solar PV. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 4018-4027	7	3
102	Ensuring Distribution Network Integrity Using Dynamic Operating Limits for Prosumers. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3877-3888	10.7	6
101	. IEEE Transactions on Smart Grid, 2020 , 11, 4502-4512	10.7	19
100	CVR and Loss Optimization Through Active Voltage Management: A Trade-off Analysis. <i>IEEE Transactions on Power Delivery</i> , 2020 , 1-1	4.3	5
99	Operating Envelopes for Prosumers in LV Networks: A Weighted Proportional Fairness Approach 2020 ,		3
98	On the Inadequacy of the CVR Factor for Active Schemes. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 1592-1595	4.3	1
97	Bottom-up modeling of residential batteries and their effect on system-level generation cost. <i>Electric Power Systems Research</i> , 2020 , 189, 106711	3.5	3
96	A Review on TSO-DSO Coordination Models and Solution Techniques. <i>Electric Power Systems Research</i> , 2020 , 189, 106659	3.5	33
95	Assessing the effects of DER on voltages using a smart meter-driven three-phase LV feeder model. <i>Electric Power Systems Research</i> , 2020 , 189, 106705	3.5	5
94	Regional-scale allocation of fast charging stations: travel times and distribution system reinforcements. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 4225-4233	2.5	6
93	Integrated MV-LV network modelling for DER studies. <i>CIRED - Open Access Proceedings Journal</i> , 2020 , 2020, 274-277	0.1	0
92	Smart meter-driven estimation of PV hosting capacity. <i>CIRED - Open Access Proceedings Journal</i> , 2020 , 2020, 128-131	0.1	O

91	On the Limitations of Volt-var Control in PV-Rich Residential LV Networks: A UK Case Study 2019,		4
90	Impacts of Price-led Operation of Residential Storage on Distribution Networks: An Australian Case Study 2019 ,		2
89	Adaptive Asset Congestion Management in PV-Rich LV Networks 2019,		1
88	OPF-Based CVR Operation in PV-Rich MVIIV Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2778-2789	7	24
87	Electric Vehicles in Latin America: Slowly but Surely Toward a Clean Transport. <i>IEEE Electrification Magazine</i> , 2019 , 7, 22-32	2.6	5
86	Robust Recovery of Missing Data in Electricity Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 4057-4067	10.7	16
85	Defining Customer Export Limits in PV-Rich Low Voltage Networks. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 87-97	7	17
84	Advanced control of OLTC-enabled LV networks with PV systems and EVs. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 2967-2975	2.5	10
83	Implementable Three-Phase OPF Formulations for MV-LV Distribution Networks: MILP and MIQCP 2019 ,		9
82	Customer-Led Operation of Residential Storage for the Provision of Energy Services 2019 ,		
			4
81	. IEEE Transactions on Power Systems, 2019 , 34, 2378-2389	7	23
81 80		7	
	. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2378-2389 Analytic Considerations and Design Basis for the IEEE Distribution Test Feeders. <i>IEEE Transactions</i>	,	23 180
80	. IEEE Transactions on Power Systems, 2019, 34, 2378-2389 Analytic Considerations and Design Basis for the IEEE Distribution Test Feeders. IEEE Transactions on Power Systems, 2018, 33, 3181-3188 AC OPF for Smart Distribution Networks: An Efficient and Robust Quadratic Approach. IEEE	7	23 180
80 79	. IEEE Transactions on Power Systems, 2019, 34, 2378-2389 Analytic Considerations and Design Basis for the IEEE Distribution Test Feeders. IEEE Transactions on Power Systems, 2018, 33, 3181-3188 AC OPF for Smart Distribution Networks: An Efficient and Robust Quadratic Approach. IEEE Transactions on Smart Grid, 2018, 9, 4613-4623 Voltage-Led Load Management in Whole Distribution Networks. IEEE Transactions on Power	7	23 180 40
80 79 78	. IEEE Transactions on Power Systems, 2019, 34, 2378-2389 Analytic Considerations and Design Basis for the IEEE Distribution Test Feeders. IEEE Transactions on Power Systems, 2018, 33, 3181-3188 AC OPF for Smart Distribution Networks: An Efficient and Robust Quadratic Approach. IEEE Transactions on Smart Grid, 2018, 9, 4613-4623 Voltage-Led Load Management in Whole Distribution Networks. IEEE Transactions on Power Systems, 2018, 33, 1544-1554	7 10.7	23 180 40 19
80 79 78 77	. IEEE Transactions on Power Systems, 2019, 34, 2378-2389 Analytic Considerations and Design Basis for the IEEE Distribution Test Feeders. IEEE Transactions on Power Systems, 2018, 33, 3181-3188 AC OPF for Smart Distribution Networks: An Efficient and Robust Quadratic Approach. IEEE Transactions on Smart Grid, 2018, 9, 4613-4623 Voltage-Led Load Management in Whole Distribution Networks. IEEE Transactions on Power Systems, 2018, 33, 1544-1554 . IEEE Transactions on Power Systems, 2018, 33, 1566-1576 A Voltage Control Scheme for Generation-Dominated Networks to Maximize Power Export. IEEE	7 10.7 7	23 180 40 19 45

73	2018,		11
72	Unlocking CVR Benefits Using Active Voltage Control in LV Networks 2018,		1
71	. IEEE Transactions on Power Systems, 2017 , 32, 4278-4288	7	21
7º	Geo-Information Is Power: Using Geographical Information Systems to Assess Rooftop Photovoltaics in Costa Rica. <i>IEEE Power and Energy Magazine</i> , 2017 , 15, 48-56	2.4	12
69	Unlocking New Sources of Flexibility: CLASS: The World\(\mathbb{W}\)Largest Voltage-Led Load-Management Project. IEEE Power and Energy Magazine, 2017, 15, 52-63	2.4	13
68	HPC-Based Probabilistic Analysis of LV Networks With EVs: Impacts and Control. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 1479-1487	10.7	26
67	Voltage Control in PV-Rich LV Networks Without Remote Monitoring. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 1224-1236	7	34
66	Probabilistic Impact Assessment of Low Carbon Technologies in LV Distribution Systems. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 2192-2203	7	143
65	Optimal Sizing and Control of Energy Storage in Wind Power-Rich Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 2004-2013	7	71
64	Representative Residential LV Feeders: A Case Study for the North West of England. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 348-360	7	35
63	An Improved Three-Phase AMB Distribution System State Estimator. <i>IEEE Transactions on Power Systems</i> , 2016 , 1-1	7	15
62	Recovering missing data via matrix completion in electricity distribution systems 2016,		11
61	Voltage Control of PV-Rich LV Networks: OLTC-Fitted Transformer and Capacitor Banks. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4016-4025	7	79
60	Control of EV Charging Points for Thermal and Voltage Management of LV Networks. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3028-3039	7	76
59	CVR assessment in UK residential LV networks considering customer types 2016,		1
58	Co-simulator of power and communication networks using OpenDSS and OMNeT++ 2016,		6
57	Data analytics in smart distribution networks: Applications and challenges 2016,		4
56	Embracing an Adaptable, Flexible Posture: Ensuring That Future European Distribution Networks Are Ready for More Active Roles. <i>IEEE Power and Energy Magazine</i> , 2016 , 14, 16-28	2.4	28

55	Controlling electric vehicle charging points for congestion management of UK LV networks 2015,		9
54	Increasing the PV hosting capacity of LV networks: OLTC-fitted transformers vs. reinforcements 2015 ,		21
53	Initial assessment of voltage-led demand response from UK residential loads 2015,		10
52	Performance of OLTC-based control strategies for LV networks with photovoltaics 2015,		8
51	Assessing the Potential of Network Reconfiguration to Improve Distributed Generation Hosting Capacity in Active Distribution Systems. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 346-356	7	192
50	Advanced Network Management Systems: A Risk-Based AC OPF Approach. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 409-418	7	46
49	EHP in low voltage networks: Understanding the effects of heat emitters and room temperatures 2015 ,		2
48	Assessing the statistical consistency of the AMB State Estimator in distribution systems 2015,		2
47	On the effects of monitoring and control settings on voltage control in PV-rich LV networks 2015,		8
46	Assessing the effects of load models on MV network losses 2015,		2
45	On the integrated PV hosting capacity of MV and LV distribution networks 2015 ,		10
44	A statistical analysis of EV charging behavior in the UK 2015 ,		35
43	Voltage control in LV networks: An initial investigation 2014 ,		20
42	Assessing the benefits of meshed operation of LV feeders with low carbon technologies 2014,		7
41	Evaluating and planning flexibility in sustainable power systems 2013,		30
40	Estimating the load response to voltage changes at UK primary substations 2013,		11
39	. IEEE Transactions on Power Systems, 2013 , 28, 1493-1502	7	236
38	Evaluating and Planning Flexibility in Sustainable Power Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2013 , 4, 200-209	8.2	172

37	Monte Carlo-based assessment of PV impacts on real UK low voltage networks 2013,		29
36	Assessing the benefits of PV var absorption on the hosting capacity of LV feeders 2013,		8
35	Distribution network management system: An AC OPF approach 2013,		1
34	Smart Decentralized Control of DG for Voltage and Thermal Constraint Management. <i>IEEE Transactions on Power Systems</i> , 2012 , 27, 1637-1645	7	98
33	Flexibility from the demand side 2012 ,		9
32	Learning from residential load data: Impacts on LV network planning and operation 2012,		7
31	Evaluating the profitability of flexibility 2012,		3
30	Hybrid controller of energy storage and renewable DG for congestion management 2012,		1
29	Low-carbon LV networks: Challenges for planning and operation 2012,		11
28	Exploring the use of flexibility indices in low carbon power systems 2012,		6
27	Assessing the contribution of demand side management to power system flexibility 2011,		19
26	Enhanced Utilization of Voltage Control Resources With Distributed Generation. <i>IEEE Transactions on Power Systems</i> , 2011 , 26, 252-260	7	139
25	Minimizing the Reactive Support for Distributed Generation: Enhanced Passive Operation and Smart Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2011 , 26, 2134-2142	7	62
24	Operational windows for decentralized control of renewable DG: Techno-economic trade-offs 2011 ,		1
23	Minimizing Energy Losses: Optimal Accommodation and Smart Operation of Renewable Distributed Generation. <i>IEEE Transactions on Power Systems</i> , 2011 , 26, 198-205	7	265
22	. IEEE Transactions on Power Systems, 2011 , 26, 897-904	7	37
21	2011,		20
20	Minimizing energy losses: Optimal accommodation and smart operation of renewable distributed generation 2011 ,		5

19	Angle constraint active management of distribution networks with wind power 2010,		9
18	Network Distributed Generation Capacity Analysis Using OPF With Voltage Step Constraints. <i>IEEE Transactions on Power Systems</i> , 2010 , 25, 296-304	7	113
17	. IEEE Transactions on Power Systems, 2010 , 25, 575-583	7	45
16	Integrating distributed generation using decentralised voltage regulation 2010,		40
15	Demonstrating the capacity benefits of dynamic ratings in smarter distribution networks 2010,		11
14	Distribution network capacity assessment: Variable DG and active networks 2010,		7
13	DG Impact on Investment Deferral: Network Planning and Security of Supply. <i>IEEE Transactions on Power Systems</i> , 2010 , 25, 1134-1141	7	68
12	Distribution Network Capacity Assessment: Variable DG and Active Networks. <i>IEEE Transactions on Power Systems</i> , 2010 , 25, 87-95	7	246
11	Using AC Optimal Power Flow for DG planning and optimisation 2010,		11
10	Life cycle assessment of the transmission network in Great Britain. <i>Energy Policy</i> , 2010 , 38, 3622-3631	7.2	60
9	Distributed generation and security of supply: Assessing the investment deferral 2009,		4
8	Assessing the strategic benefits of distributed generation ownership for DNOs. <i>IET Generation, Transmission and Distribution</i> , 2009 , 3, 225-236	2.5	70
7	Time-Series-Based Maximization of Distributed Wind Power Generation Integration. <i>IEEE Transactions on Energy Conversion</i> , 2008 , 23, 968-974	5.4	84
6			
Ü	Evaluating Distributed Time-Varying Generation Through a Multiobjective Index. <i>IEEE Transactions on Power Delivery</i> , 2008 , 23, 1132-1138	4.3	103
5		4.3	103
	on Power Delivery, 2008, 23, 1132-1138 Minimal Cross-Subsidies Approach for Loss Allocation in Distribution Networks with Open Access.	4-3	
5	on Power Delivery, 2008, 23, 1132-1138 Minimal Cross-Subsidies Approach for Loss Allocation in Distribution Networks with Open Access. IEEE Power Engineering Society General Meeting, 2007, Evaluating distributed generation impacts with a multiobjective index. IEEE Transactions on Power		1

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