

# Irma Chacn

## List of Publications by Citations

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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  
papers

3,952  
citations

32  
h-index

61  
g-index

125  
ext. papers

5,060  
ext. citations

5.6  
avg, IF

6.06  
L-index

#	Paper	IF	Citations
108	Minimizing Energy Losses: Optimal Accommodation and Smart Operation of Renewable Distributed Generation. <i>IEEE Transactions on Power Systems</i> , <b>2011</b> , 26, 198-205	7	265
107	Distribution Network Capacity Assessment: Variable DG and Active Networks. <i>IEEE Transactions on Power Systems</i> , <b>2010</b> , 25, 87-95	7	246
106	. <i>IEEE Transactions on Power Systems</i> , <b>2013</b> , 28, 1493-1502	7	236
105	Evaluating distributed generation impacts with a multiobjective index. <i>IEEE Transactions on Power Delivery</i> , <b>2006</b> , 21, 1452-1458	4.3	222
104	Assessing the Potential of Network Reconfiguration to Improve Distributed Generation Hosting Capacity in Active Distribution Systems. <i>IEEE Transactions on Power Systems</i> , <b>2015</b> , 30, 346-356	7	192
103	Analytic Considerations and Design Basis for the IEEE Distribution Test Feeders. <i>IEEE Transactions on Power Systems</i> , <b>2018</b> , 33, 3181-3188	7	180
102	Evaluating and Planning Flexibility in Sustainable Power Systems. <i>IEEE Transactions on Sustainable Energy</i> , <b>2013</b> , 4, 200-209	8.2	172
101	Probabilistic Impact Assessment of Low Carbon Technologies in LV Distribution Systems. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 31, 2192-2203	7	143
100	Power flow in four-wire distribution networks-general approach. <i>IEEE Transactions on Power Systems</i> , <b>2003</b> , 18, 1283-1290	7	142
99	Enhanced Utilization of Voltage Control Resources With Distributed Generation. <i>IEEE Transactions on Power Systems</i> , <b>2011</b> , 26, 252-260	7	139
98	Network Distributed Generation Capacity Analysis Using OPF With Voltage Step Constraints. <i>IEEE Transactions on Power Systems</i> , <b>2010</b> , 25, 296-304	7	113
97	Evaluating Distributed Time-Varying Generation Through a Multiobjective Index. <i>IEEE Transactions on Power Delivery</i> , <b>2008</b> , 23, 1132-1138	4.3	103
96	Smart Decentralized Control of DG for Voltage and Thermal Constraint Management. <i>IEEE Transactions on Power Systems</i> , <b>2012</b> , 27, 1637-1645	7	98
95	Time-Series-Based Maximization of Distributed Wind Power Generation Integration. <i>IEEE Transactions on Energy Conversion</i> , <b>2008</b> , 23, 968-974	5.4	84
94	Voltage Control of PV-Rich LV Networks: OLTC-Fitted Transformer and Capacitor Banks. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 31, 4016-4025	7	79
93	Control of EV Charging Points for Thermal and Voltage Management of LV Networks. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 31, 3028-3039	7	76
92	Optimal Sizing and Control of Energy Storage in Wind Power-Rich Distribution Networks. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 31, 2004-2013	7	71

91	Assessing the strategic benefits of distributed generation ownership for DNOs. <i>IET Generation, Transmission and Distribution</i> , <b>2009</b> , 3, 225-236	2.5	70
90	DG Impact on Investment Deferral: Network Planning and Security of Supply. <i>IEEE Transactions on Power Systems</i> , <b>2010</b> , 25, 1134-1141	7	68
89	Minimizing the Reactive Support for Distributed Generation: Enhanced Passive Operation and Smart Distribution Networks. <i>IEEE Transactions on Power Systems</i> , <b>2011</b> , 26, 2134-2142	7	62
88	Life cycle assessment of the transmission network in Great Britain. <i>Energy Policy</i> , <b>2010</b> , 38, 3622-3631	7.2	60
87	Advanced Network Management Systems: A Risk-Based AC OPF Approach. <i>IEEE Transactions on Power Systems</i> , <b>2015</b> , 30, 409-418	7	46
86	. <i>IEEE Transactions on Power Systems</i> , <b>2018</b> , 33, 1566-1576	7	45
85	. <i>IEEE Transactions on Power Systems</i> , <b>2010</b> , 25, 575-583	7	45
84	AC OPF for Smart Distribution Networks: An Efficient and Robust Quadratic Approach. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 4613-4623	10.7	40
83	Integrating distributed generation using decentralised voltage regulation <b>2010</b> ,		40
82	. <i>IEEE Transactions on Power Systems</i> , <b>2011</b> , 26, 897-904	7	37
81	Representative Residential LV Feeders: A Case Study for the North West of England. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 31, 348-360	7	35
80	A statistical analysis of EV charging behavior in the UK <b>2015</b> ,		35
79	Voltage Control in PV-Rich LV Networks Without Remote Monitoring. <i>IEEE Transactions on Power Systems</i> , <b>2017</b> , 32, 1224-1236	7	34
78	. <i>IEEE Power and Energy Magazine</i> , <b>2018</b> , 16, 64-76	2.4	34
77	A Review on TSO-DSO Coordination Models and Solution Techniques. <i>Electric Power Systems Research</i> , <b>2020</b> , 189, 106659	3.5	33
76	Evaluating and planning flexibility in sustainable power systems <b>2013</b> ,		30
75	Monte Carlo-based assessment of PV impacts on real UK low voltage networks <b>2013</b> ,		29
74	Embracing an Adaptable, Flexible Posture: Ensuring That Future European Distribution Networks Are Ready for More Active Roles. <i>IEEE Power and Energy Magazine</i> , <b>2016</b> , 14, 16-28	2.4	28

73	HPC-Based Probabilistic Analysis of LV Networks With EVs: Impacts and Control. <i>IEEE Transactions on Smart Grid</i> , <b>2017</b> , 8, 1479-1487	10.7	26
72	OPF-Based CVR Operation in PV-Rich MVLV Distribution Networks. <i>IEEE Transactions on Power Systems</i> , <b>2019</b> , 34, 2778-2789	7	24
71	. <i>IEEE Transactions on Power Systems</i> , <b>2019</b> , 34, 2378-2389	7	23
70	Fault analysis in four-wire distribution networks. <i>IET Generation, Transmission and Distribution</i> , <b>2005</b> , 152, 977		22
69	. <i>IEEE Transactions on Power Systems</i> , <b>2017</b> , 32, 4278-4288	7	21
68	Increasing the PV hosting capacity of LV networks: OLTC-fitted transformers vs. reinforcements <b>2015</b> ,		21
67	Voltage control in LV networks: An initial investigation <b>2014</b> ,		20
66	<b>2011</b> ,		20
65	. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 4502-4512	10.7	19
64	Voltage-Led Load Management in Whole Distribution Networks. <i>IEEE Transactions on Power Systems</i> , <b>2018</b> , 33, 1544-1554	7	19
63	Assessing the contribution of demand side management to power system flexibility <b>2011</b> ,		19
62	Defining Customer Export Limits in PV-Rich Low Voltage Networks. <i>IEEE Transactions on Power Systems</i> , <b>2019</b> , 34, 87-97	7	17
61	Robust Recovery of Missing Data in Electricity Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 4057-4067	10.7	16
60	An Improved Three-Phase AMB Distribution System State Estimator. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 1-1	7	15
59	Power flow in distribution networks with earth return. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2004</b> , 26, 373-380	5.1	14
58	Unlocking New Sources of Flexibility: CLASS: The World's Largest Voltage-Led Load-Management Project. <i>IEEE Power and Energy Magazine</i> , <b>2017</b> , 15, 52-63	2.4	13
57	Geo-Information Is Power: Using Geographical Information Systems to Assess Rooftop Photovoltaics in Costa Rica. <i>IEEE Power and Energy Magazine</i> , <b>2017</b> , 15, 48-56	2.4	12
56	Recovering missing data via matrix completion in electricity distribution systems <b>2016</b> ,		11

55	Estimating the load response to voltage changes at UK primary substations <b>2013,</b>		11
54	Demonstrating the capacity benefits of dynamic ratings in smarter distribution networks <b>2010,</b>		11
53	Using AC Optimal Power Flow for DG planning and optimisation <b>2010,</b>		11
52	Low-carbon LV networks: Challenges for planning and operation <b>2012,</b>		11
51	<b>2018,</b>		11
50	Initial assessment of voltage-led demand response from UK residential loads <b>2015,</b>		10
49	Advanced control of OLTC-enabled LV networks with PV systems and EVs. <i>IET Generation, Transmission and Distribution, 2019, 13, 2967-2975</i>	2.5	10
48	On the integrated PV hosting capacity of MV and LV distribution networks <b>2015,</b>		10
47	Limitations of Residential Storage in PV-Rich Distribution Networks: An Australian Case Study <b>2018,</b>		10
46	Controlling electric vehicle charging points for congestion management of UK LV networks <b>2015,</b>		9
45	Flexibility from the demand side <b>2012,</b>		9
44	Angle constraint active management of distribution networks with wind power <b>2010,</b>		9
43	Implementable Three-Phase OPF Formulations for MV-LV Distribution Networks: MILP and MIQCP <b>2019,</b>		9
42	Performance of OLTC-based control strategies for LV networks with photovoltaics <b>2015,</b>		8
41	On the effects of monitoring and control settings on voltage control in PV-rich LV networks <b>2015,</b>		8
40	Assessing the benefits of PV var absorption on the hosting capacity of LV feeders <b>2013,</b>		8
39	Assessing the benefits of meshed operation of LV feeders with low carbon technologies <b>2014,</b>		7
38	Learning from residential load data: Impacts on LV network planning and operation <b>2012,</b>		7

37	Distribution network capacity assessment: Variable DG and active networks <b>2010</b> ,		7
36	Grid and Market Services From the Edge: Using Operating Envelopes to Unlock Network-Aware Bottom-Up Flexibility. <i>IEEE Power and Energy Magazine</i> , <b>2021</b> , 19, 52-62	2.4	7
35	Exploring the use of flexibility indices in low carbon power systems <b>2012</b> ,		6
34	Regional-scale allocation of fast charging stations: travel times and distribution system reinforcements. <i>IET Generation, Transmission and Distribution</i> , <b>2020</b> , 14, 4225-4233	2.5	6
33	Co-simulator of power and communication networks using OpenDSS and OMNeT++ <b>2016</b> ,		6
32	Ensuring Distribution Network Integrity Using Dynamic Operating Limits for Prosumers. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 12, 3877-3888	10.7	6
31	Electric Vehicles in Latin America: Slowly but Surely Toward a Clean Transport. <i>IEEE Electrification Magazine</i> , <b>2019</b> , 7, 22-32	2.6	5
30	Minimizing energy losses: Optimal accommodation and smart operation of renewable distributed generation <b>2011</b> ,		5
29	CVR and Loss Optimization Through Active Voltage Management: A Trade-off Analysis. <i>IEEE Transactions on Power Delivery</i> , <b>2020</b> , 1-1	4.3	5
28	Assessing the effects of DER on voltages using a smart meter-driven three-phase LV feeder model. <i>Electric Power Systems Research</i> , <b>2020</b> , 189, 106705	3.5	5
27	On the Limitations of Volt-var Control in PV-Rich Residential LV Networks: A UK Case Study <b>2019</b> ,		4
26	Distributed generation and security of supply: Assessing the investment deferral <b>2009</b> ,		4
25	Data analytics in smart distribution networks: Applications and challenges <b>2016</b> ,		4
24	Customer-Led Operation of Residential Storage for the Provision of Energy Services <b>2019</b> ,		4
23	Evaluating the profitability of flexibility <b>2012</b> ,		3
22	Operating Envelopes for Prosumers in LV Networks: A Weighted Proportional Fairness Approach <b>2020</b> ,		3
21	Bottom-up modeling of residential batteries and their effect on system-level generation cost. <i>Electric Power Systems Research</i> , <b>2020</b> , 189, 106711	3.5	3
20	Asset Congestion and Voltage Management in Large-Scale MV-LV Networks With Solar PV. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 36, 4018-4027	7	3

19	Impacts of Price-led Operation of Residential Storage on Distribution Networks: An Australian Case Study <b>2019</b> ,		2
18	A Voltage Control Scheme for Generation-Dominated Networks to Maximize Power Export. <i>IEEE Transactions on Power Systems</i> , <b>2018</b> , 33, 7321-7323	7	2
17	EHP in low voltage networks: Understanding the effects of heat emitters and room temperatures <b>2015</b> ,		2
16	Assessing the statistical consistency of the AMB State Estimator in distribution systems <b>2015</b> ,		2
15	Assessing the effects of load models on MV network losses <b>2015</b> ,		2
14	Quantifying the effects of medium voltage/low voltage distribution network constraints and distributed energy resource reactive power capabilities on aggregators. <i>IET Generation, Transmission and Distribution</i> , <b>2021</b> , 15, 2019-2032	2.5	2
13	. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 12, 2929-2940	10.7	2
12	Adaptive Asset Congestion Management in PV-Rich LV Networks <b>2019</b> ,		1
11	Hybrid controller of energy storage and renewable DG for congestion management <b>2012</b> ,		1
10	Distribution network management system: An AC OPF approach <b>2013</b> ,		1
9	Operational windows for decentralized control of renewable DG: Techno-economic trade-offs <b>2011</b> ,		1
8	Minimal Cross-Subsidies Approach for Loss Allocation in Distribution Networks with Open Access. <i>IEEE Power Engineering Society General Meeting</i> , <b>2007</b> ,		1
7	On the Inadequacy of the CVR Factor for Active Schemes. <i>IEEE Transactions on Power Delivery</i> , <b>2020</b> , 35, 1592-1595	4.3	1
6	Model-Free Voltage Calculations for PV-Rich LV Networks: Smart Meter Data and Deep Neural Networks <b>2021</b> ,		1
5	CVR assessment in UK residential LV networks considering customer types <b>2016</b> ,		1
4	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> , <b>2021</b> , 15, 468-479	2.5	1
3	Unlocking CVR Benefits Using Active Voltage Control in LV Networks <b>2018</b> ,		1
2	Integrated MV-LV network modelling for DER studies. <i>CIREN - Open Access Proceedings Journal</i> , <b>2020</b> , 2020, 274-277	0.1	0

1 Smart meter-driven estimation of PV hosting capacity. *CIREN - Open Access Proceedings Journal*, 2020, 2020, 128-131

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