Joo P S Catalo, Ieee Fellow

List of Publications by Citations

165 papers	4,427 citations	39 h-index	62 g-index
190 ext. papers	5,964 ext. citations	5.7 avg, IF	6.34 L-index

#	Paper	IF	Citations
165	A Review of Smart Cities Based on the Internet of Things Concept. *Energies*, **2017**, 10, 421	3.1	282
164	Smart Household Operation Considering Bi-Directional EV and ESS Utilization by Real-Time Pricing-Based DR. *IEEE Transactions on Smart Grid*, **2015**, 6, 1281-1291	10.7	279
163	Optimal Household Appliances Scheduling Under Day-Ahead Pricing and Load-Shaping Demand Response Strategies. *IEEE Transactions on Industrial Informatics*, **2015**, 11, 1509-1519	11.9	243
162	. *IEEE Transactions on Industry Applications*, **2018**, 54, 1017-1028	4.3	127
161	Coordinated Operation of a Neighborhood of Smart Households Comprising Electric Vehicles, Energy Storage and Distributed Generation. *IEEE Transactions on Smart Grid*, **2016**, 7, 2736-2747	10.7	127
160	Dynamic Price Vector Formation Model-Based Automatic Demand Response Strategy for PV-Assisted EV Charging Stations. *IEEE Transactions on Smart Grid*, **2017**, 8, 2903-2915	10.7	126
159	Optimal Behavior of Electric Vehicle Parking Lots as Demand Response Aggregation Agents. *IEEE Transactions on Smart Grid*, **2016**, 7, 2654-2665	10.7	118
158	Allocation of Plug-In Vehicles' Parking Lots in Distribution Systems Considering Network-Constrained Objectives. *IEEE Transactions on Power Systems*, **2015**, 30, 2643-2656	7	115
157	. *IEEE Transactions on Smart Grid*, **2018**, 9, 6972-6985	10.7	100
156	A Decentralized Renewable Generation Management and Demand Response in Power Distribution Networks. *IEEE Transactions on Sustainable Energy*, **2018**, 9, 1783-1797	8.2	92
155	End-User Comfort Oriented Day-Ahead Planning for Responsive Residential HVAC Demand Aggregation Considering Weather Forecasts. *IEEE Transactions on Smart Grid*, **2017**, 8, 362-372	10.7	89
154	Smart Home Communication Technologies and Applications: Wireless Protocol Assessment for Home Area Network Resources. *Energies*, **2015**, 8, 7279-7311	3.1	83
153	A Decentralized Electricity Market Scheme Enabling Demand Response Deployment. *IEEE Transactions on Power Systems*, **2018**, 33, 4218-4227	7	82
152	Stochastic Modeling of Multienergy Carriers Dependencies in Smart Local Networks With Distributed Energy Resources. *IEEE Transactions on Smart Grid*, **2015**, 6, 1748-1762	10.7	77
151	New Multistage and Stochastic Mathematical Model for Maximizing RES Hosting Capacity—Part I: Problem Formulation. *IEEE Transactions on Sustainable Energy*, **2017**, 8, 304-319	8.2	77
150	Strategic Behavior of Multi-Energy Players in Electricity Markets as Aggregators of Demand Side Resources Using a Bi-Level Approach. *IEEE Transactions on Power Systems*, **2018**, 33, 397-411	7	76
149	Risk-Constrained Offering Strategy for Aggregated Hybrid Power Plant Including Wind Power Producer and Demand Response Provider. *IEEE Transactions on Sustainable Energy*, **2016**, 7, 513-525	8.2	74

148	. *IEEE Transactions on Sustainable Energy*, **2018**, 9, 1041-1050	8.2	68
147	. *IEEE Transactions on Smart Grid*, **2016**, 7, 124-135	10.7	65
146	Dynamic Model, Control and Stability Analysis of MMC in HVDC Transmission Systems. *IEEE Transactions on Power Delivery*, **2017**, 32, 1471-1482	4.3	65
145	Assessing Increased Flexibility of Energy Storage and Demand Response to Accommodate a High Penetration of Renewable Energy Sources. *IEEE Transactions on Sustainable Energy*, **2019**, 10, 659-669	8.2	62
144	. *IEEE Transactions on Sustainable Energy*, **2014**, 5, 1036-1047	8.2	62
143	An Innovative Two-Level Model for Electric Vehicle Parking Lots in Distribution Systems With Renewable Energy. *IEEE Transactions on Smart Grid*, **2018**, 9, 1506-1520	10.7	61
142	Energy Management Strategy in Dynamic Distribution Network Reconfiguration Considering Renewable Energy Resources and Storage. *IEEE Transactions on Sustainable Energy*, **2020**, 11, 662-673	8.2	61
141	. *IEEE Transactions on Industry Applications*, **2019**, 55, 3331-3342	4.3	60
140	Assessment of Demand-Response-Driven Load Pattern Elasticity Using a Combined Approach for Smart Households. *IEEE Transactions on Industrial Informatics*, **2016**, 12, 1529-1539	11.9	60
139	Effect of Loads and Other Key Factors on Oil-Transformer Ageing: Sustainability Benefits and Challenges. *Energies*, **2015**, 8, 12147-12186	3.1	60
138	Model Predictive Control Home Energy Management and Optimization Strategy with Demand Response. *Applied Sciences (Switzerland)*, **2018**, 8, 408	2.6	57
137	. *IEEE Transactions on Power Systems*, **2017**, 32, 2001-2016	7	53
136	. *IEEE Transactions on Sustainable Energy*, **2020**, 11, 3-14	8.2	49
135	Fast Decomposed Energy Flow in Large-Scale Integrated Electricity□Gas□Heat Energy Systems. *IEEE Transactions on Sustainable Energy*, **2018**, 9, 1565-1577	8.2	47
134	Optimal Operation of Energy Hubs Considering Uncertainties and Different Time Resolutions. *IEEE Transactions on Industry Applications*, **2020**, 56, 5543-5552	4.3	43
133	A Multifunction Control Strategy for the Stable Operation of DG Units in Smart Grids. *IEEE Transactions on Smart Grid*, **2015**, 6, 598-607	10.7	42
132	Interdependence between transportation system and power distribution system: a comprehensive review on models and applications. *Journal of Modern Power Systems and Clean Energy*, **2019**, 7, 433-448	4	41
131	Improved EMD-Based Complex Prediction Model for Wind Power Forecasting. *IEEE Transactions on Sustainable Energy*, **2020**, 11, 2790-2802	8.2	41

130	Strategic Offering for a Price-Maker Wind Power Producer in Oligopoly Markets Considering Demand Response Exchange. *IEEE Transactions on Industrial Informatics*, **2015**, 11, 1542-1553	11.9	40
129	Aggregation of Distributed Energy Resources Under the Concept of Multienergy Players in Local Energy Systems. *IEEE Transactions on Sustainable Energy*, **2017**, 8, 1679-1693	8.2	39
128	Optimal Single Wind Hydro-Pump Storage Bidding in Day-Ahead Markets Including Bilateral Contracts. *IEEE Transactions on Sustainable Energy*, **2016**, 7, 1284-1294	8.2	39
127	Combining the Flexibility From Shared Energy Storage Systems and DLC-Based Demand Response of HVAC Units for Distribution System Operation Enhancement. *IEEE Transactions on Sustainable Energy*, **2019**, 10, 137-148	8.2	39
126	Bundled Generation and Transmission Planning Under Demand and Wind Generation Uncertainty Based on a Combination of Robust and Stochastic Optimization. *IEEE Transactions on Sustainable Energy*, **2018**, 9, 1477-1486	8.2	38
125	Risk-Based Distributionally Robust Optimal Gas-Power Flow With Wasserstein Distance. *IEEE Transactions on Power Systems*, **2019**, 34, 2190-2204	7	38
124	. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 1453-1464	8.9	38
123	A Novel Evolutionary-Based Deep Convolutional Neural Network Model for Intelligent Load Forecasting. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 8243-8253	11.9	37
122	A Distributed PV System Capacity Estimation Approach Based on Support Vector Machine with Customer Net Load Curve Features. *Energies*, **2018**, 11, 1750	3.1	36
121	. *IEEE Transactions on Industry Applications*, **2019**, 55, 4441-4450	4.3	30
120	Novel Control Strategy for Modular Multilevel Converters Based on Differential Flatness Theory. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2018**, 6, 888-897	5.6	30
119	Comprehensive Review of the Recent Advances in Industrial and Commercial DR. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 3757-3771	11.9	27
118	Direct Lyapunov Control Technique for the Stable Operation of Multilevel Converter-Based Distributed Generation in Power Grid. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2014**, 2, 931-941	5.6	27
117	Consideration of the Impacts of a Smart Neighborhood Load on Transformer Aging. *IEEE Transactions on Smart Grid*, **2016**, 7, 2793-2802	10.7	25
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115	Security-Constrained Unit Commitment Problem With Transmission Switching Reliability and Dynamic Thermal Line Rating. *IEEE Systems Journal*, **2019**, 13, 3933-3943	4.3	23
114	Network-Constrained Joint Energy and Flexible Ramping Reserve Market Clearing of Power- and Heat-Based Energy Systems: A Two-Stage Hybrid IGDT/Stochastic Framework. *IEEE Systems Journal* , **2021**, 15, 1547-1556	4.3	23
113	Risk-Based Two-Stage Stochastic Optimization Problem of Micro-Grid Operation with Renewables and Incentive-Based Demand Response Programs. *Energies*, **2018**, 11, 610	3.1	21

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110	Self-Scheduling Approach to Coordinating Wind Power Producers With Energy Storage and Demand Response. *IEEE Transactions on Sustainable Energy*, **2020**, 11, 1210-1219	8.2	19
109	A Novel Ensemble Algorithm for Solar Power Forecasting Based on Kernel Density Estimation. *Energies*, **2020**, 13, 216	3.1	18
108	Demand Response-Based Operation Model in Electricity Markets With High Wind Power Penetration. *IEEE Transactions on Sustainable Energy*, **2019**, 10, 918-930	8.2	18
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106	Risk-Averse Optimal Energy and Reserve Scheduling for Virtual Power Plants Incorporating Demand Response Programs. *IEEE Transactions on Smart Grid*, **2021**, 12, 1405-1415	10.7	18
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98	Optimal Day-Ahead Scheduling and Operation of the Prosumer by Considering Corrective Actions Based on Very Short-Term Load Forecasting. *IEEE Access*, **2020**, 8, 83561-83582	3.5	13
97	Synchronous Resonant Control Technique to Address Power Grid Instability Problems Due to High Renewables Penetration. *Energies*, **2018**, 11, 2469	3.1	13
96	Frequency-Domain Decomposition and Deep Learning Based Solar PV Power Ultra-Short-Term Forecasting Model. *IEEE Transactions on Industry Applications*, **2021**, 57, 3282-3295	4.3	12
95	Enhanced Forecasting Approach for Electricity Market Prices and Wind Power Data Series in the Short-Term. *Energies*, **2016**, 9, 693	3.1	12

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93	Optimal placement of battery swap stations in microgrids with micro pumped hydro storage systems, photovoltaic, wind and geothermal distributed generators. *International Journal of Electrical Power and Energy Systems*, **2021**, 125, 106483	5.1	12
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89	The Mutual Impact of Demand Response Programs and Renewable Energies: A Survey. *Energies*, **2017**, 10, 1353	3.1	10
88	A Decentralized Multi-Agent-Based Approach for Low Voltage Microgrid Restoration. *Energies*, **2017**, 10, 1491	3.1	10
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85	Optimal Operation of Electric Vehicle Parking Lots with Rooftop Photovoltaics **2019**,		10
84	Demand-Side Management of Smart Distribution Grids Incorporating Renewable Energy Sources. *Energies*, **2019**, 12, 143	3.1	9
83	A Comprehensive Overview of Dynamic Line Rating Combined with Other Flexibility Options from an Operational Point of View. *Energies*, **2020**, 13, 6563	3.1	9
82	Experimental Results on a Wireless Wattmeter Device for the Integration in Home Energy Management Systems. *Energies*, **2017**, 10, 398	3.1	9
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77	Time-Section Fusion Pattern Classification Based Day-Ahead Solar Irradiance Ensemble Forecasting Model Using Mutual Iterative Optimization. *Energies*, **2018**, 11, 184	3.1	8

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75	Design and Implementation of an Interactive Interface for Demand Response and Home Energy Management Applications. *Applied Sciences (Switzerland)*, **2017**, 7, 641	2.6	7
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73	Optimal Demand Response Strategies to Mitigate Oligopolistic Behavior of Generation Companies Using a Multi-Objective Decision Analysis. *IEEE Transactions on Power Systems*, **2018**, 33, 4264-4274	7	7
72	Control of Modular Multilevel Converters for integration of distributed generation sources into the power grid **2015**,		7
71	Risk-Based Bi-Level Model for Simultaneous Profit Maximization of a Smart Distribution Company and Electric Vehicle Parking Lot Owner. *Energies*, **2017**, 10, 1714	3.1	7
70	Exploiting the Potentials of HVAC Systems in Transactive Energy Markets. *IEEE Transactions on Smart Grid*, **2021**, 12, 4039-4048	10.7	7
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66	Analysis Application of Controllable Load Appliances Management in a Smart Home. *Energies*, **2019**, 12, 3710	3.1	6
65	Smart Wire Placement to Facilitate Large-Scale Wind Energy Integration: An Adaptive Robust Approach. *IEEE Transactions on Sustainable Energy*, **2019**, 10, 1981-1992	8.2	6
64	Risk-Oriented Multi-Area Economic Dispatch Solution With High Penetration of Wind Power Generation and Compressed Air Energy Storage System. *IEEE Transactions on Sustainable Energy*, **2020**, 11, 1569-1578	8.2	6
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57	Multiobjective Optimal Power Flow Using a Semidefinite Programming-Based Model. *IEEE Systems Journal*, **2021**, 15, 158-169	4.3	5
56	Optimal generic energy storage system offering in day-ahead electricity markets **2015**,		4
55	Hybrid evolutionary-adaptive approach to predict electricity prices and wind power in the short-term **2014**,		4
54	Offering Strategy of Thermal-Photovoltaic-Storage Based Generation Company in Day-Ahead Market **2020**, 113-133		4
53	Sky Image Prediction Model Based on Convolutional Auto-Encoder for Minutely Solar PV Power Forecasting. *IEEE Transactions on Industry Applications*, **2021**, 57, 3272-3281	4.3	4
52	Probabilistic Model for Microgrids Optimal Energy Management Considering AC Network Constraints. *IEEE Systems Journal*, **2020**, 14, 2703-2712	4.3	4
51	Extended Kalman Filter-Based Approach for Nodal Pricing in Active Distribution Networks. *IEEE Systems Journal*, **2021**, 15, 487-496	4.3	4
50	Pattern Classification and PSO Optimal Weights Based Sky Images Cloud Motion Speed Calculation Method for Solar PV Power Forecasting **2018**,		4
49	Deep Convolutional Graph Rough Variational Auto-Encoder for Short-Term Photovoltaic Power Forecasting **2021**,		4
48	Novel Hybrid Stochastic-Robust Optimal Trading Strategy for a Demand Response Aggregator in the Wholesale Electricity Market. *IEEE Transactions on Industry Applications*, **2021**, 57, 5488-5498	4.3	4
47	A New Ensemble Reinforcement Learning Strategy for Solar Irradiance Forecasting using Deep Optimized Convolutional Neural Network Models **2021**,		4
46	A New Approach for Grid-Connected Hybrid Renewable Energy System Sizing Considering Harmonic Contents of Smart Home Appliances. *Applied Sciences (Switzerland)*, **2019**, 9, 3941	2.6	3
45	Multifunctional control of an NPC converter for the grid integration of renewable energy sources **2015**,		3
44	Demand Response based Trading Framework in the Presence of Fuel Cells Using Information-Gap Decision Theory **2020**,		3
43	Optimal operation of smart houses by a real-time rolling horizon algorithm **2016**,		3
42	Scenario Based Analysis of an EV Parking Lot Equipped with a Roof-Top PV Unit within Distribution Systems **2018**,		3
41	Energy Hub Design in the Presence of P2G System Considering the Variable Efficiencies of Gas-Fired Converters **2021**,		3

40	Development of a Smart Thermostat Controller for Direct Load Control Based Demand Response Applications **2019**,		2
39	Flexibility-Oriented Scheduling of Microgrids Considering the Risk of Uncertainties **2020**,		2
38	Stochastic Demand Side Management in European Zonal Price Market **2019**,		2
37	Bi-Level Decomposition Approach for Coordinated Planning of an Energy Hub With Gas-Electricity Integrated Systems. *IEEE Systems Journal*, **2021**, 1-11	4.3	2
36	Blockchain-Based Transactive Energy Framework for Connected Virtual Power Plants. *IEEE Transactions on Industry Applications*, **2021**, 1-1	4.3	2
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33	A Linear Multi-Objective Operation Model for Smart Distribution Systems Coordinating Tap-Changers, Photovoltaics and Battery Energy Storage **2018**,		2
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31	Closed loop Aggregated Baseline Load Estimation using Contextual Bandit with Policy Gradient. *IEEE Transactions on Smart Grid*, **2021**, 1-1	10.7	2
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27	Integration of DG sources for compensation of unbalanced loads in the power grid **2015**,		1
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25	EV charging effect on a distribution transformer supplying a factory with local PV generation **2017**,		1
24	A new approach for market power detection in renewable-based electricity markets **2017**,		1
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16	Optimal Battery Storage Arbitrage Considering Degradation Cost in Energy Markets **2020**,		1
15	Analyzing and Quantifying the Intrinsic Distributional Robustness of CVaR Reformulation for Chance-Constrained Stochastic Programs. *IEEE Transactions on Power Systems*, **2020**, 35, 4908-4911	7	1
14	The role of residential HVAC units in demand side flexibility considering end-user comfort **2016**,		1
13	Integrating the PEVs' traffic pattern in parking lots and charging stations in micro multi-energy systems **2016**,		1
12	Application of Opportunistic Information-Gap Decision Theory on Demand Response Aggregator in the Day-Ahead Electricity Market **2019**,		1
11	Control of MMC-Based STATCOM as an Effective Interface between Energy Sources and the Power Grid. *Electronics (Switzerland)*, **2019**, 8, 1264	2.6	1
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7	Demand Response Program Integrated With Electrical Energy Storage Systems for Residential Consumers. *IEEE Systems Journal*, **2022**, 1-12	4.3	1
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1	Large-Scale Grid Integration of Renewable Energy Resources with a Double Synchronous Controller. *Applied Sciences (Switzerland)*, **2019**, 9, 5548	2.6	