

Pedro Faria

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.

177
papers

2,460
citations

21
h-index

45
g-index

223
ext. papers

3,147
ext. citations

4
avg, IF

5.58
L-index

#	Paper	IF	Citations
177	Optimal scheduling of a renewable micro-grid in an isolated load area using mixed-integer linear programming. <i>Renewable Energy</i> , 2010 , 35, 151-156	8.1	379
176	Demand response in electrical energy supply: An optimal real time pricing approach. <i>Energy</i> , 2011 , 36, 5374-5384	7.9	219
175	Intelligent Energy Resource Management Considering Vehicle-to-Grid: A Simulated Annealing Approach. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 535-542	10.7	151
174	Day-Ahead Resource Scheduling Including Demand Response for Electric Vehicles. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 596-605	10.7	125
173	Modified Particle Swarm Optimization Applied to Integrated Demand Response and DG Resources Scheduling. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 606-616	10.7	119
172	Evaluation of the electric vehicle impact in the power demand curve in a smart grid environment. <i>Energy Conversion and Management</i> , 2014 , 82, 268-282	10.6	88
171	Incentive-based demand response programs designed by asset-light retail electricity providers for the day-ahead market. <i>Energy</i> , 2015 , 82, 786-799	7.9	73
170	Towards transactive energy systems: An analysis on current trends. <i>Energy Strategy Reviews</i> , 2019 , 26, 100418	9.8	72
169	Distributed generation and demand response dispatch for a virtual power player energy and reserve provision. <i>Renewable Energy</i> , 2014 , 66, 686-695	8.1	64
168	Demand Response Management in Power Systems Using Particle Swarm Optimization. <i>IEEE Intelligent Systems</i> , 2013 , 28, 43-51	4.2	59
167	. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 952-961	11.9	58
166	Distributed energy resources management using plug-in hybrid electric vehicles as a fuel-shifting demand response resource. <i>Energy Conversion and Management</i> , 2015 , 97, 78-93	10.6	50
165	Distributed, Agent-Based Intelligent System for Demand Response Program Simulation in Smart Grids. <i>IEEE Intelligent Systems</i> , 2014 , 29, 56-65	4.2	45
164	Distribution system operation supported by contextual energy resource management based on intelligent SCADA. <i>Renewable Energy</i> , 2013 , 52, 143-153	8.1	42
163	An optimal scheduling problem in distribution networks considering V2G 2011 ,		33
162	Implementation of a Real-Time Microgrid Simulation Platform Based on Centralized and Distributed Management. <i>Energies</i> , 2017 , 10, 806	3.1	32
161	Constrained consumption shifting management in the distributed energy resources scheduling considering demand response. <i>Energy Conversion and Management</i> , 2015 , 93, 309-320	10.6	32

160	Demsi [A demand response simulator in the context of intensive use of distributed generation 2010,		32
159	Demand Response Optimization Using Particle Swarm Algorithm Considering Optimum Battery Energy Storage Schedule in a Residential House. <i>Energies</i> , 2019 , 12, 1645	3.1	27
158	Distributed energy resources management with cyber-physical SCADA in the context of future smart grids 2010,		27
157	Demand Response Programs Design and Use Considering Intensive Penetration of Distributed Generation. <i>Energies</i> , 2015 , 8, 6230-6246	3.1	22
156	Genetic algorithm methodology applied to intelligent house control 2011,		21
155	A Demand Response Approach to Scheduling Constrained Load Shifting. <i>Energies</i> , 2019 , 12, 1752	3.1	19
154	Demand response design and use based on network locational marginal prices. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 61, 180-191	5.1	17
153	2011,		16
152	Demand Response of Residential Houses Equipped with PV-Battery Systems: An Application Study Using Evolutionary Algorithms. <i>Energies</i> , 2020 , 13, 2466	3.1	14
151	Mixed integer non-linear programming and Artificial Neural Network based approach to ancillary services dispatch in competitive electricity markets. <i>Applied Energy</i> , 2013 , 108, 261-270	10.7	14
150	Using data mining techniques to support DR programs definition in smart grids 2011,		14
149	Ant Colony Search algorithm for the optimal power flow problem 2011,		14
148	Agricultural irrigation scheduling for a crop management system considering water and energy use optimization. <i>Energy Reports</i> , 2020 , 6, 133-139	4.6	13
147	2010,		13
146	Distributed Energy Resources Scheduling and Aggregation in the Context of Demand Response Programs. <i>Energies</i> , 2018 , 11, 1987	3.1	13
145	Simulated Annealing metaheuristic to solve the optimal power flow 2011,		12
144	Reschedule of Distributed Energy Resources by an Aggregator for Market Participation. <i>Energies</i> , 2018 , 11, 713	3.1	11
143	The role of demand response in future power systems 2009,		11

142	Application of a Home Energy Management System for Incentive-Based Demand Response Program Implementation 2016 ,		11
141	BRICKS: Building reasoning for intelligent control knowledge-based system. <i>Sustainable Cities and Society</i> , 2020 , 52, 101832	10.1	11
140	Office building participation in demand response programs supported by intelligent lighting management. <i>Energy Informatics</i> , 2018 , 1,	2.8	11
139	Industrial Facility Electricity Consumption Forecast Using Artificial Neural Networks and Incremental Learning. <i>Energies</i> , 2020 , 13, 4774	3.1	10
138	Resource scheduling in residential microgrids considering energy selling to external players 2015 ,		10
137	Rating the Participation in Demand Response Programs for a More Accurate Aggregated Schedule of Consumers after Enrolment Period. <i>Electronics (Switzerland)</i> , 2020 , 9, 349	2.6	9
136	Contextual and environmental awareness laboratory for energy consumption management 2015 ,		9
135	Simulation and control of consumption and generation of hardware resources in microgrid real-time digital simulator 2015 ,		9
134	Demand response programs definition using demand price elasticity to define consumers aggregation for an improved remuneration structure 2013 ,		9
133	Particle swarm optimization applied to integrated demand response resources scheduling 2011 ,		9
132	Ancillary services market clearing simulation: A comparison between deterministic and heuristic methods 2010 ,		9
131	Multi-Period Observation Clustering for Tariff Definition in a Weekly Basis Remuneration of Demand Response. <i>Energies</i> , 2019 , 12, 1248	3.1	9
130	Methods for Aggregation and Remuneration of Distributed Energy Resources. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1283	2.6	9
129	Domestic consumption simulation and management using a continuous consumption management and optimization algorithm 2014 ,		8
128	Intelligent SCADA for Load control 2010 ,		8
127	Ancillary service market simulation 2009 ,		8
126	Smart energy community: A systematic review with metanalysis. <i>Energy Strategy Reviews</i> , 2021 , 36, 100678	7.8	8
125	Application of an optimization-based curtailment service provider in real-time simulation. <i>Energy Informatics</i> , 2018 , 1,	2.8	8

124	SCADA Office Building Implementation in the Context of an Aggregator 2018,		8
123	Energy Analyzer Emulator for Microgrid Implementation and Demonstration and Respective Gateway. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 134-144	4.3	7
122	Demand Response and Distributed Generation Remuneration Approach Considering Planning and Operation Stages. <i>Energies</i> , 2019 , 12, 2721	3.1	7
121	Distributed intelligent management of microgrids using a multi-agent simulation platform 2014,		7
120	Demand response programs definition supported by clustering and classification techniques 2011,		7
119	2009,		7
118	Optimization techniques for power distribution planning with uncertainties: A comparative study 2009,		7
117	Participation of a Smart Community of Consumers in Demand Response Programs 2018,		7
116	Lighting consumption optimization using fish school search algorithm 2017,		6
115	Energy and reserve provision dispatch considering distributed generation and demand response 2012,		6
114	Short-term scheduling considering five-minute and hour-ahead energy resource management 2012,		6
113	Stochastic framework for strategic decision-making of load-serving entities for day-ahead market 2013,		6
112	2010,		6
111	Model for the integration of distributed energy resources in energy markets by an aggregator 2017		6
110	Load Forecasting in an Office Building with Different Data Structure and Learning Parameters. <i>Forecasting</i> , 2021 , 3, 242-254	2.3	6
109	2016,		6
108	Ramping of Demand Response Event with Deploying Distinct Programs by an Aggregator. <i>Energies</i> , 2020 , 13, 1389	3.1	6
107	Real-time simulation of renewable energy transactions in microgrid context using real hardware resources 2016,		5

106	Microgrid demonstration gateway for players communication and load monitoring and management 2016 ,		5
105	Dispatch of distributed energy resources to provide energy and reserve in smart grids using a particle swarm optimization approach 2013 ,		5
104	Consumers performance evaluation of the participation in demand response programs using baseline methods 2013 ,		5
103	Time-horizont distributed energy resources scheduling considering the integration of real-time pricing demand response 2015 ,		5
102	Intelligent energy resource management considering vehicle-to-grid: A Simulated Annealing approach 2012 ,		5
101	Real-time simulation of energy management in a domestic consumer 2013 ,		5
100	Determining the adjustment baseline parameters to define an accurate customer baseline load 2013 ,		5
99	LMP triggered real time demand response events 2011 ,		5
98	Using diverse sensors in load forecasting in an office building to support energy management. <i>Energy Reports</i> , 2020 , 6, 182-187	4.6	5
97	Scheduling of a textile production line integrating PV generation using a genetic algorithm. <i>Energy Reports</i> , 2020 , 6, 148-154	4.6	5
96	Distributed Energy Resource Scheduling with Focus on Demand Response Complex Contracts. <i>Journal of Modern Power Systems and Clean Energy</i> , 2021 , 9, 1172-1182	4	5
95	Use of Sensors and Analyzers Data for Load Forecasting: A Two Stage Approach. <i>Sensors</i> , 2020 , 20,	3.8	4
94	Remuneration structure definition for distributed generation units and demand response participants aggregation 2014 ,		4
93	Reactive power management strategies in future smart grids 2013 ,		4
92	Using baseline methods to identify non-technical losses in the context of smart grids 2013 ,		4
91	SCADA house intelligent management for energy efficiency analysis in domestic consumers 2013 ,		4
90	A data mining framework for electric load profiling 2013 ,		4
89	Rating consumers participation in demand response programs according to previous events. <i>Energy Reports</i> , 2020 , 6, 195-200	4.6	4

88	Demonstration of an Energy Consumption Forecasting System for Energy Management in Buildings. <i>Lecture Notes in Computer Science</i> , 2019 , 462-468	0.9	4
87	Production Line Optimization to Minimize Energy Cost and Participate in Demand Response Events. <i>Energies</i> , 2021 , 14, 462	3.1	4
86	Assessment of Distributed Generation Units Remuneration Using Different Clustering Methods for Aggregation 2018 ,		4
85	A robust model for aggregated bidding of energy storages and wind resources in the joint energy and reserve markets. <i>Energy</i> , 2022 , 238, 121735	7.9	4
84	Demand Response Implementation in an Optimization Based SCADA Model Under Real-Time Pricing Schemes. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 21-29	0.4	3
83	The influence of the consumer modelling approach in demand response programs implementation 2015 ,		3
82	Consumption Optimization in an Office Building Considering Flexible Loads and User Comfort. <i>Sensors</i> , 2020 , 20,	3.8	3
81	Definition of distribution network tariffs considering distribution generation and demand response 2014 ,		3
80	Clustering optimization of distributed energy resources in support of an aggregator 2017 ,		3
79	Remuneration of distributed generation and demand response resources considering scheduling and aggregation 2015 ,		3
78	Load control timescales simulation in a Multi-Agent Smart Grid Platform 2013 ,		3
77	An Aggregation Model for Energy Resources Management and Market Negotiations. <i>Advances in Science, Technology and Engineering Systems</i> , 2018 , 3, 231-237	0.3	3
76	Key performance indicators regarding user comfort for building energy consumption management. <i>Energy Reports</i> , 2020 , 6, 87-92	4.6	3
75	A methodology for energy key performance indicators analysis. <i>Energy Informatics</i> , 2021 , 4,	2.8	3
74	Demand Response in Energy Communities Considering the Share of Photovoltaic Generation from Public Buildings 2019 ,		3
73	Energy Scheduling Using Decision Trees and Emulation: Agriculture Irrigation with Run-of-the-River Hydroelectricity and a PV Case Study. <i>Energies</i> , 2019 , 12, 3987	3.1	3
72	Discussing Different Clustering Methods for the Aggregation of Demand Response and Distributed Generation 2018 ,		3
71	Electric Mobility: An Overview of the Main Aspects Related to the Smart Grid. <i>Electronics (Switzerland)</i> , 2022 , 11, 1311	2.6	3

70	Effects of elasticity parameter definition for real-time pricing remuneration considering different user types. <i>Energy Reports</i> , 2020 , 6, 127-132	4.6	2
69	Air conditioner consumption optimization in an office building considering user comfort. <i>Energy Reports</i> , 2020 , 6, 120-126	4.6	2
68	Real-Time Simulation of a Curtailment Service Provider for Demand Response Participation 2018 ,		2
67	Analysis of consumption data to detect commercial losses using performance evaluation methods in a smart grid 2014 ,		2
66	Modified Particle Swarm Optimization applied to integrated demand response and DG resources scheduling 2014 ,		2
65	Dynamic Approach and Testbed for Small and Medium Players Simulation in Smart Grid Environments. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 31-36		2
64	Quantum Particle Swarm Optimization Applied to Distinct Remuneration Approaches in Demand Response Programs 2015 ,		2
63	Definition of the demand response events duration using differential search algorithm for aggregated consumption shifting and generation scheduling 2015 ,		2
62	A learning algorithm and system approach to address exceptional events in domestic consumption management 2014 ,		2
61	Data mining techniques contributions to support electrical vehicle demand response 2012 ,		2
60	Study of distribution network demand response events in the Portuguese system 2012 ,		2
59	Ancillary services dispatch using Linear Programming and Genetic Algorithm approaches 2010 ,		2
58	Comparison between Deterministic and Meta-heuristic Methods Applied to Ancillary Services Dispatch. <i>Lecture Notes in Computer Science</i> , 2010 , 731-741	0.9	2
57	Clustering Direct Load Control Appliances in the Context of Demand Response Programs in Energy Communities. <i>IFAC-PapersOnLine</i> , 2020 , 53, 12608-12613	0.7	2
56	Energy Resource Scheduling in an Agriculture System Using a Decision Tree Approach 2019 ,		2
55	Short Time Electricity Consumption Forecast in an Industry Facility. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
54	Large-scale optimization of households with photovoltaic-battery system and demand response. <i>IFAC-PapersOnLine</i> , 2020 , 53, 12572-12577	0.7	2
53	Sequential Tasks Shifting for Participation in Demand Response Programs. <i>Energies</i> , 2020 , 13, 4879	3.1	2

52	Constrained Generation Bids in Local Electricity Markets: A Semantic Approach. <i>Energies</i> , 2020 , 13, 3990	3.1	2
51	Allocation of fixed costs considering Distributed Generation and distinct approaches of Demand Response remuneration in distribution networks 2016 ,		2
50	Distribution Network Expansion Planning Considering the Flexibility Value for Distribution System Operator 2019 ,		2
49	MARTINEA Platform for Real-Time Energy Management in Smart Grids. <i>Energies</i> , 2021 , 14, 1820	3.1	2
48	Lighting Consumption Optimization in an Office Building for Demand Response Participation 2018 ,		2
47	Energy-constrained model for scheduling of battery storage systems in joint energy and ancillary service markets based on the energy throughput concept. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 133, 107213	5.1	2
46	Study and analysis of wind curtailment situations and developing an appropriated methodology for its management 2015 ,		1
45	Scheduling and aggregation of distributed generators and consumers participating in demand response programs 2015 ,		1
44	Combining real-time and fixed tariffs in the demand response aggregation and remuneration. <i>Energy Reports</i> , 2020 , 6, 114-119	4.6	1
43	Multi-agent Electricity Markets and Smart Grids Simulation with Connection to Real Physical Resources. <i>Studies in Systems, Decision and Control</i> , 2018 , 305-327	0.8	1
42	Energy Resources Management Enabled by Internet of Things Devices 2019 ,		1
41	Elasticity Parameter Definition and Analysis for Real-Time Pricing Remuneration Basing on Different Users Cases 2019 ,		1
40	A Communication and Resources Management Scheme to Support the Smart Grid Integration of Multiplayers Access to Resources Information. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 11244-11249		1
39	Defining electricity tariffs using the knowledge about the consumers profiles in ELECON project 2013 ,		1
38	Quantum-based particle swarm optimization application to studies of aggregated consumption shifting and generation scheduling in smart grids 2014 ,		1
37	Virtual power players demand response programs management based on locational marginal prices 2012 ,		1
36	ANN-based LMP forecasting in a distribution network with large penetration of DG 2012 ,		1
35	Stochastic short-term incentive-based demand response scheduling of load-serving entities 2013 ,		1

34	2010,			1
33	Combined heat and power and consumption optimization in a SCADA-based system 2012,			1
32	Scheduling of battery energy storages in the joint energy and reserve markets based on the static frequency of power system. <i>Journal of Energy Storage</i> , 2022 , 49, 104115	7.8		1
31	Optimal Distribution Grid Operation Using Demand Response 2020,			1
30	Clustering Support for an Aggregator in a Smart Grid Context. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 156-165	0.4		1
29	A Consumer Trustworthiness Rate for Participation in Demand Response Programs. <i>IFAC-PapersOnLine</i> , 2020 , 53, 12596-12601	0.7		1
28	Online estimation and use of price elasticity of demand for shifting loads through real-time pricing. <i>Energy Reports</i> , 2020 , 6, 93-98	4.6		1
27	Photovoltaic Inverter Scheduler with the Support of Storage Unit to Minimize Electricity Bill. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 63-71	0.4		1
26	Electricity Consumption Forecast in an Industry Facility to Support Production Planning Update in Short Time 2020,			1
25	CO2 Concentration Forecasting in an Office Using Artificial Neural Network 2019,			1
24	Optimizing Lighting in an Office for Demand Response Participation Considering User Preferences 2019,			1
23	PV Generation Forecasting Model for Energy Management in Buildings. <i>Lecture Notes in Computer Science</i> , 2021 , 176-182	0.9		1
22	optimization-Based Home Energy Management System Under Different Electricity Pricing Schemes 2018,			1
21	Electric Water Heater Modelling for Direct Load Control Demand Response 2018,			1
20	Web-based platform for the management of citizen energy communities and their members. <i>Energy Informatics</i> , 2021 , 4,	2.8		1
19	Evaluation Metrics to Assess the Most Suitable Energy Community End-Users to Participate in Demand Response. <i>Energies</i> , 2022 , 15, 2380	3.1		1
18	Application of distinct demand response program during the ramping and sustained response period. <i>Energy Reports</i> , 2022 , 8, 411-416	4.6		0
17	Clustering distributed Energy Storage units for the aggregation of optimized local solar energy. <i>Energy Reports</i> , 2022 , 8, 405-410	4.6		0

16	INTEGRATION OF RENEWABLE ENERGY IN SMART GRID 2020 , 613-773		0
15	Probabilistic Determination of Consumers Response and Consumption Management Strategies in Demand Response Programs		0
14	Study of Multi-Tariff Influence on the Distributed Generation Remuneration. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 14-19	0.4	0
13	Managing Smart City Power Network by Shifting Electricity Consumers Demand. <i>Lecture Notes in Networks and Systems</i> , 2022 , 81-91	0.5	0
12	An Optimization Based Community Model of Consumers and Prosumers: A Real-Time Simulation and Emulation Approach. <i>E3S Web of Conferences</i> , 2021 , 239, 00024	0.5	0
11	A Trustworthy Building Energy Management System to Enable Direct IoT Devices Participation in Demand Response Programs. <i>Electronics (Switzerland)</i> , 2022 , 11, 897	2.6	0
10	ANN Based Support for Distributed Energy Resources Scheduling in Smart Grids. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 3684-3689		
9	Intelligent Energy Resources Management in the Context of Smart Grids. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 12225-12230		
8	Economic Impact of an Optimization-Based SCADA Model for an Office Building. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 166-175	0.4	
7	Key Performance Indicators to Support the Participation in Demand Response Programs: A Testing Framework for End Users. <i>IFAC-PapersOnLine</i> , 2020 , 53, 12602-12607	0.7	
6	Real-Time Emulation and Simulation System of Asynchronous Motor Consumption. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 72-80	0.4	
5	Real-Time Implementation of Demand Response Programs Based on Open ADR Technology. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 345-347	0.4	
4	Lighting Consumption Optimization in a SCADA Model of Office Building Considering User Comfort Level. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 20-28	0.4	
3	Demand Response Programs Management in an Energy Community with Diversity of Appliances. <i>E3S Web of Conferences</i> , 2021 , 239, 00023	0.5	
2	Intelligent Energy-Oriented Home 2021 , 269-289		
1	Intelligent Simulation and Emulation Platform for Energy Management in Buildings and Microgrids. <i>Intelligent Systems Reference Library</i> , 2022 , 167-181	0.8	