

Pedro Faria

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.

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	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
176	Application of distinct demand response program during the ramping and sustained response period. <i>Energy Reports</i> , 2022 , 8, 411-416	4.6	0
175	Clustering distributed Energy Storage units for the aggregation of optimized local solar energy. <i>Energy Reports</i> , 2022 , 8, 405-410	4.6	0
174	Managing Smart City Power Network by Shifting Electricity Consumers Demand. <i>Lecture Notes in Networks and Systems</i> , 2022 , 81-91	0.5	0
173	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
172	Intelligent Simulation and Emulation Platform for Energy Management in Buildings and Microgrids. <i>Intelligent Systems Reference Library</i> , 2022 , 167-181	0.8	
171	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
170	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
169	Electric Mobility: An Overview of the Main Aspects Related to the Smart Grid. <i>Electronics (Switzerland)</i> , 2022 , 11, 1311	2.6	3
168	Short Time Electricity Consumption Forecast in an Industry Facility. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
167	Load Forecasting in an Office Building with Different Data Structure and Learning Parameters. <i>Forecasting</i> , 2021 , 3, 242-254	2.3	6
166	A methodology for energy key performance indicators analysis. <i>Energy Informatics</i> , 2021 , 4,	2.8	3
165	Smart energy community: A systematic review with metanalysis. <i>Energy Strategy Reviews</i> , 2021 , 36, 100678	7.8	8
164	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
163	PV Generation Forecasting Model for Energy Management in Buildings. <i>Lecture Notes in Computer Science</i> , 2021 , 176-182	0.9	1
162	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
161	Production Line Optimization to Minimize Energy Cost and Participate in Demand Response Events. <i>Energies</i> , 2021 , 14, 462	3.1	4

160	MARTINEA Platform for Real-Time Energy Management in Smart Grids. <i>Energies</i> , 2021 , 14, 1820	3.1	2
159	Web-based platform for the management of citizen energy communities and their members. <i>Energy Informatics</i> , 2021 , 4,	2.8	1
158	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
157	Demand Response Programs Management in an Energy Community with Diversity of Appliances. <i>E3S Web of Conferences</i> , 2021 , 239, 00023	0.5	
156	Intelligent Energy-Oriented Home 2021 , 269-289		
155	Industrial Facility Electricity Consumption Forecast Using Artificial Neural Networks and Incremental Learning. <i>Energies</i> , 2020 , 13, 4774	3.1	10
154	Combining real-time and fixed tariffs in the demand response aggregation and remuneration. <i>Energy Reports</i> , 2020 , 6, 114-119	4.6	1
153	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
152	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
151	Air conditioner consumption optimization in an office building considering user comfort. <i>Energy Reports</i> , 2020 , 6, 120-126	4.6	2
150	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
149	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
148	Use of Sensors and Analyzers Data for Load Forecasting: A Two Stage Approach. <i>Sensors</i> , 2020 , 20,	3.8	4
147	Consumption Optimization in an Office Building Considering Flexible Loads and User Comfort. <i>Sensors</i> , 2020 , 20,	3.8	3
146	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
145	INTEGRATION OF RENEWABLE ENERGY IN SMART GRID 2020 , 613-773		0
144	Optimal Distribution Grid Operation Using Demand Response 2020 ,		1
143	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	

142	Clustering Support for an Aggregator in a Smart Grid Context. <i>Advances in Intelligent Systems and Computing, 2020</i> , 156-165	0.4	1
141	Study of Multi-Tariff Influence on the Distributed Generation Remuneration. <i>Advances in Intelligent Systems and Computing, 2020</i> , 14-19	0.4	0
140	A Consumer Trustworthiness Rate for Participation in Demand Response Programs. <i>IFAC-PapersOnLine, 2020</i> , 53, 12596-12601	0.7	1
139	Using diverse sensors in load forecasting in an office building to support energy management. <i>Energy Reports, 2020</i> , 6, 182-187	4.6	5
138	Rating consumers participation in demand response programs according to previous events. <i>Energy Reports, 2020</i> , 6, 195-200	4.6	4
137	Online estimation and use of price elasticity of demand for shifting loads through real-time pricing. <i>Energy Reports, 2020</i> , 6, 93-98	4.6	1
136	Key Performance Indicators to Support the Participation in Demand Response Programs:A Testing Framework for End Users. <i>IFAC-PapersOnLine, 2020</i> , 53, 12602-12607	0.7	
135	Scheduling of a textile production line integrating PV generation using a genetic algorithm. <i>Energy Reports, 2020</i> , 6, 148-154	4.6	5
134	Key performance indicators regarding user comfort for building energy consumption management. <i>Energy Reports, 2020</i> , 6, 87-92	4.6	3
133	Large-scale optimization of households with photovoltaic-battery system and demand response. <i>IFAC-PapersOnLine, 2020</i> , 53, 12572-12577	0.7	2
132	Sequential Tasks Shifting for Participation in Demand Response Programs. <i>Energies, 2020</i> , 13, 4879	3.1	2
131	Electricity Consumption Forecast in an Industry Facility to Support Production Planning Update in Short Time 2020 ,		1
130	Constrained Generation Bids in Local Electricity Markets: A Semantic Approach. <i>Energies, 2020</i> , 13, 3990	3.1	2
129	BRICKS: Building reasoning for intelligent control knowledge-based system. <i>Sustainable Cities and Society, 2020</i> , 52, 101832	10.1	11
128	Lighting Consumption Optimization in a SCADA Model of Office Building Considering User Comfort Level. <i>Advances in Intelligent Systems and Computing, 2020</i> , 20-28	0.4	
127	Ramping of Demand Response Event with Deploying Distinct Programs by an Aggregator. <i>Energies, 2020</i> , 13, 1389	3.1	6
126	Demand Response Implementation in an Optimization Based SCADA Model Under Real-Time Pricing Schemes. <i>Advances in Intelligent Systems and Computing, 2019</i> , 21-29	0.4	3
125	Demand Response Optimization Using Particle Swarm Algorithm Considering Optimum Battery Energy Storage Schedule in a Residential House. <i>Energies, 2019</i> , 12, 1645	3.1	27

124	A Demand Response Approach to Scheduling Constrained Load Shifting. <i>Energies</i> , 2019 , 12, 1752	3.1	19
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	Towards transactive energy systems: An analysis on current trends. <i>Energy Strategy Reviews</i> , 2019 , 26, 100418	9.8	72
120	Energy Resources Management Enabled by Internet of Things Devices 2019 ,		1
119	Elasticity Parameter Definition and Analysis for Real-Time Pricing Remuneration Basing on Different Users Cases 2019 ,		1
118	Energy Resource Scheduling in an Agriculture System Using a Decision Tree Approach 2019 ,		2
117	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
116	Multi-Period Observation Clustering for Tariff Definition in a Weekly Basis Remuneration of Demand Response. <i>Energies</i> , 2019 , 12, 1248	3.1	9
115	CO2 Concentration Forecasting in an Office Using Artificial Neural Network 2019 ,		1
114	Optimizing Lighting in an Office for Demand Response Participation Considering User Preferences 2019 ,		1
113	Distribution Network Expansion Planning Considering the Flexibility Value for Distribution System Operator 2019 ,		2
112	Demand Response in Energy Communities Considering the Share of Photovoltaic Generation from Public Buildings 2019 ,		3
111	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
110	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
109	Reschedule of Distributed Energy Resources by an Aggregator for Market Participation. <i>Energies</i> , 2018 , 11, 713	3.1	11
108	Real-Time Simulation of a Curtailment Service Provider for Demand Response Participation 2018 ,		2
107	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

106	Real-Time Emulation and Simulation System of Asynchronous Motor Consumption. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 72-80	0.4	
105	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	
104	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
103	Distributed Energy Resources Scheduling and Aggregation in the Context of Demand Response Programs. <i>Energies</i> , 2018 , 11, 1987	3.1	13
102	Discussing Different Clustering Methods for the Aggregation of Demand Response and Distributed Generation 2018 ,		3
101	Assessment of Distributed Generation Units Remuneration Using Different Clustering Methods for Aggregation 2018 ,		4
100	Application of an optimization-based curtailment service provider in real-time simulation. <i>Energy Informatics</i> , 2018 , 1,	2.8	8
99	Office building participation in demand response programs supported by intelligent lighting management. <i>Energy Informatics</i> , 2018 , 1,	2.8	11
98	Participation of a Smart Community of Consumers in Demand Response Programs 2018 ,		7
97	Lighting Consumption Optimization in an Office Building for Demand Response Participation 2018 ,		2
96	SCADA Office Building Implementation in the Context of an Aggregator 2018 ,		8
95	Methods for Aggregation and Remuneration of Distributed Energy Resources. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1283	2.6	9
94	optimization-Based Home Energy Management System Under Different Electricity Pricing Schemes 2018 ,		1
93	Electric Water Heater Modelling for Direct Load Control Demand Response 2018 ,		1
92	Implementation of a Real-Time Microgrid Simulation Platform Based on Centralized and Distributed Management. <i>Energies</i> , 2017 , 10, 806	3.1	32
91	Lighting consumption optimization using fish school search algorithm 2017 ,		6
90	Clustering optimization of distributed energy resources in support of an aggregator 2017 ,		3
89	Model for the integration of distributed energy resources in energy markets by an aggregator 2017 ,		6

88	Real-time simulation of renewable energy transactions in microgrid context using real hardware resources 2016 ,		5
87	Microgrid demonstration gateway for players communication and load monitoring and management 2016 ,		5
86	2016 ,		6
85	Application of a Home Energy Management System for Incentive-Based Demand Response Program Implementation 2016 ,		11
84	. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 952-961	11.9	58
83	Allocation of fixed costs considering Distributed Generation and distinct approaches of Demand Response remuneration in distribution networks 2016 ,		2
82	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
81	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
80	Study and analysis of wind curtailment situations and developing an appropriated methodology for its management 2015 ,		1
79	The influence of the consumer modelling approach in demand response programs implementation 2015 ,		3
78	Scheduling and aggregation of distributed generators and consumers participating in demand response programs 2015 ,		1
77	Time-horizont distributed energy resources scheduling considering the integration of real-time pricing demand response 2015 ,		5
76	Demand Response Programs Design and Use Considering Intensive Penetration of Distributed Generation. <i>Energies</i> , 2015 , 8, 6230-6246	3.1	22
75	Resource scheduling in residential microgrids considering energy selling to external players 2015 ,		10
74	Contextual and environmental awareness laboratory for energy consumption management 2015 ,		9
73	Quantum Particle Swarm Optimization Applied to Distinct Remuneration Approaches in Demand Response Programs 2015 ,		2
72	Definition of the demand response events duration using differential search algorithm for aggregated consumption shifting and generation scheduling 2015 ,		2
71	Simulation and control of consumption and generation of hardware resources in microgrid real-time digital simulator 2015 ,		9

70	Remuneration of distributed generation and demand response resources considering scheduling and aggregation 2015 ,		3
69	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
68	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
67	Remuneration structure definition for distributed generation units and demand response participants aggregation 2014 ,		4
66	Domestic consumption simulation and management using a continuous consumption management and optimization algorithm 2014 ,		8
65	Analysis of consumption data to detect commercial losses using performance evaluation methods in a smart grid 2014 ,		2
64	Definition of distribution network tariffs considering distribution generation and demand response 2014 ,		3
63	Modified Particle Swarm Optimization applied to integrated demand response and DG resources scheduling 2014 ,		2
62	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
61	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
60	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
59	Distributed intelligent management of microgrids using a multi-agent simulation platform 2014 ,		7
58	Quantum-based particle swarm optimization application to studies of aggregated consumption shifting and generation scheduling in smart grids 2014 ,		1
57	A learning algorithm and system approach to address exceptional events in domestic consumption management 2014 ,		2
56	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
55	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
54	Reactive power management strategies in future smart grids 2013 ,		4
53	Dispatch of distributed energy resources to provide energy and reserve in smart grids using a particle swarm optimization approach 2013 ,		5

52	Demand Response Management in Power Systems Using Particle Swarm Optimization. <i>IEEE Intelligent Systems</i> , 2013 , 28, 43-51	4.2	59
51	Using baseline methods to identify non-technical losses in the context of smart grids 2013 ,		4
50	SCADA house intelligent management for energy efficiency analysis in domestic consumers 2013 ,		4
49	Consumers performance evaluation of the participation in demand response programs using baseline methods 2013 ,		5
48	Defining electricity tariffs using the knowledge about the consumers profiles in ELECON project 2013 ,		1
47	A data mining framework for electric load profiling 2013 ,		4
46	Day-Ahead Resource Scheduling Including Demand Response for Electric Vehicles. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 596-605	10.7	125
45	Distribution system operation supported by contextual energy resource management based on intelligent SCADA. <i>Renewable Energy</i> , 2013 , 52, 143-153	8.1	42
44	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
43	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
42	Demand response programs definition using demand price elasticity to define consumers aggregation for an improved remuneration structure 2013 ,		9
41	Real-time simulation of energy management in a domestic consumer 2013 ,		5
40	Load control timescales simulation in a Multi-Agent Smart Grid Platform 2013 ,		3
39	Determining the adjustment baseline parameters to define an accurate customer baseline load 2013 ,		5
38	Stochastic short-term incentive-based demand response scheduling of load-serving entities 2013 ,		1
37	Stochastic framework for strategic decision-making of load-serving entities for day-ahead market 2013 ,		6
36	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
35	Virtual power players demand response programs management based on locational marginal prices 2012 ,		1

34	ANN-based LMP forecasting in a distribution network with large penetration of DG 2012 ,		1
33	Data mining techniques contributions to support electrical vehicle demand response 2012 ,		2
32	Intelligent energy resource management considering vehicle-to-grid: A Simulated Annealing approach 2012 ,		5
31	Energy and reserve provision dispatch considering distributed generation and demand response 2012 ,		6
30	Short-term scheduling considering five-minute and hour-ahead energy resource management 2012 ,		6
29	Study of distribution network demand response events in the Portuguese system 2012 ,		2
28	Combined heat and power and consumption optimization in a SCADA-based system 2012 ,		1
27	Using data mining techniques to support DR programs definition in smart grids 2011 ,		14
26	Genetic algorithm methodology applied to intelligent house control 2011 ,		21
25	LMP triggered real time demand response events 2011 ,		5
24	Simulated Annealing metaheuristic to solve the optimal power flow 2011 ,		12
23	Particle swarm optimization applied to integrated demand response resources scheduling 2011 ,		9
22	An optimal scheduling problem in distribution networks considering V2G 2011 ,		33
21	2011 ,		16
20	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		
19	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		
18	Demand response in electrical energy supply: An optimal real time pricing approach. <i>Energy</i> , 2011 , 36, 5374-5384	7.9	219
17	Demand response programs definition supported by clustering and classification techniques 2011 ,		7

16	Ant Colony Search algorithm for the optimal power flow problem 2011 ,		14
15	Ancillary services market clearing simulation: A comparison between deterministic and heuristic methods 2010 ,		9
14	2010 ,		13
13	Demsi A demand response simulator in the context of intensive use of distributed generation 2010 ,		32
12	Ancillary services dispatch using Linear Programming and Genetic Algorithm approaches 2010 ,		2
11	2010 ,		1
10	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
9	Distributed energy resources management with cyber-physical SCADA in the context of future smart grids 2010 ,		27
8	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
7	2010 ,		6
6	Intelligent SCADA for Load control 2010 ,		8
5	The role of demand response in future power systems 2009 ,		11
4	Ancillary service market simulation 2009 ,		8
3	2009 ,		7
2	Optimization techniques for power distribution planning with uncertainties: A comparative study 2009 ,		7
1	Probabilistic Determination of Consumers Response and Consumption Management Strategies in Demand Response Programs		0