

Antonio Moreno-Munoz

List of Publications by Year in descending order

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179
papers

2,041
citations

304602

22
h-index

360920

35
g-index

181
all docs

181
docs citations

181
times ranked

1942
citing authors

#	ARTICLE	IF	CITATIONS
1	IoT Cloud-Based Power Quality Extended Functionality for Grid-Interactive Appliance Controllers. IEEE Transactions on Industry Applications, 2022, 58, 3909-3921.	3.3	8
2	Electricity demand during pandemic times: The case of the COVID-19 in Spain. Energy Policy, 2021, 148, 111964.	4.2	160
3	Load Scheduling Strategy to Improve Power Quality in Electric-Boosted Glass Furnaces. IEEE Transactions on Industry Applications, 2021, 57, 953-963.	3.3	3
4	Optimal Schedule for Networked Microgrids Under Deregulated Power Market Environment Using Model Predictive Control. IEEE Transactions on Smart Grid, 2021, 12, 182-191.	6.2	38
5	Microgrids Power Quality Enhancement Using Model Predictive Control. Electronics (Switzerland), 2021, 10, 328.	1.8	13
6	Inequality built into the grid. Nature Energy, 2021, 6, 852-853.	19.8	1
7	Energy Management Expert Assistant, a New Concept. Sensors, 2021, 21, 5915.	2.1	3
8	Detection and Compensation of Current Harmonics in a Microgrid Using an Active Power Filter Supported by an IoT Sensor Network. , 2021, , .		1
9	Interactive visualization of IoT power quality data on mobile devices. , 2021, , .		0
10	A Novel Microgrid Responsive Appliance Controller. , 2020, , .		1
11	Secondary Control for Storage Power Converters in Isolated Nanogrids to Allow Peer-to-Peer Power Sharing. Electronics (Switzerland), 2020, 9, 140.	1.8	7
12	Demand and Storage Management in a Prosumer Nanogrid Based on Energy Forecasting. Electronics (Switzerland), 2020, 9, 363.	1.8	6
13	An IoT Based Mobile Augmented Reality Application for Energy Visualization in Buildings Environments. Applied Sciences (Switzerland), 2020, 10, 600.	1.3	13
14	Power Quality Sensor for Smart Applianceâ€™s Self-Diagnosing Functionality. IEEE Sensors Journal, 2019, 19, 9486-9495.	2.4	10
15	Load Scheduling Approach for Energy Management and Power Quality enhancement in Glass Melting Furnaces. , 2019, , .		3
16	A Novel Direct Load Control Testbed for Smart Appliances. Energies, 2019, 12, 3336.	1.6	8
17	A Memory-Efficient True-RMS Estimator in a Limited-Resources Hardware. Energies, 2019, 12, 1699.	1.6	6
18	Special Issue â€œNanogrids, Microgrids, and the Internet of Things (IoT): Towards the Digital Energy Networkâ€. Energies, 2019, 12, 3878.	1.6	2

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19	Modeling human activity in Spain for different economic sectors: The potential link between occupancy and energy usage. <i>Journal of Cleaner Production</i> , 2018, 183, 1093-1109.	4.6	7
20	A stochastic modelling and simulation approach to heating and cooling electricity consumption in the residential sector. <i>Energy</i> , 2018, 144, 1080-1091.	4.5	24
21	Smart Community Electric Energy Micro-Storage Systems With Active Functions. <i>IEEE Transactions on Industry Applications</i> , 2018, 54, 1975-1982.	3.3	18
22	Flatness-based Adaptive Control of Synchronous Reluctance Machines with Output Feedback. , 2018, , .		2
23	Implementation of an Educational Platform on Power Quality. , 2018, , .		2
24	Educational platform for communications using the MQTT protocol. , 2018, , .		4
25	Novel Internet of Things Platform for In-Building Power Quality Submetering. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1320.	1.3	15
26	An IoT Low-Cost Voltage Sag Detector. , 2018, , .		1
27	Supraharmonics emission from LED lamps: A reduction proposal based on random pulse-width modulation. <i>Electric Power Systems Research</i> , 2018, 164, 11-19.	2.1	13
28	Supraharmonics reduction in LED drivers via random pulse-position modulation. <i>International Journal of Electronics</i> , 2018, 105, 2128-2143.	0.9	3
29	Educational platform for reliability assessment of power quality. , 2018, , .		4
30	Solar PV inverter supraharmonics reduction with random PWM. , 2017, , .		12
31	Development and application of a smart grid test bench. <i>Journal of Cleaner Production</i> , 2017, 162, 45-60.	4.6	13
32	Appliances in the residential sector: Economic impact of harmonic losses. , 2017, , .		0
33	Home Lighting controller based on BLE. , 2017, , .		1
34	Using smart meters data for energy management operations and power quality monitoring in a microgrid. , 2017, , .		30
35	Supraharmonics reduction in NPC inverter with random PWM. , 2017, , .		3
36	Low cost dea"€energizing warning meter algorithm for sensitive loads. , 2017, , .		0

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37	Active, Reactive and Harmonic Control for Distributed Energy Micro-Storage Systems in Smart Communities Homes. Energies, 2017, 10, 448.	1.6	8
38	PV Hosting Capacity Analysis and Enhancement Using High Resolution Stochastic Modeling. Energies, 2017, 10, 1488.	1.6	20
39	Large Scale Grid Integration of Renewable Energy Sources. , 2017, , .		8
40	An Embedded System in Smart Inverters for Power Quality and Safety Functionality. Energies, 2016, 9, 219.	1.6	8
41	Local energy micro-storage systems in smart communities with active, reactive and harmonic control. , 2016, , .		2
42	Causal and Anti-Causal Segmentation of Voltage Dips in Power Distribution Networks. IEEE Latin America Transactions, 2016, 14, 3080-3086.	1.2	3
43	Performance monitoring of a solar photovoltaic power plant using an advanced real-time system. , 2016, , .		4
44	Intelligent Electronic Device for Distributed Energy Resources. IEEE Latin America Transactions, 2016, 14, 3270-3277.	1.2	2
45	Smart community load matching using stochastic demand modeling and historical production data. , 2016, , .		3
46	Influence of photovoltaic installation angles and geographical dispersion in the smoothing of photovoltaic fleet power fluctuations. , 2016, , .		1
47	Influence of data-related factors on the use of IEC 61850 for power utility automation. Electric Power Systems Research, 2016, 133, 269-280.	2.1	11
48	Mobile social media for smart grids customer engagement: Emerging trends and challenges. Renewable and Sustainable Energy Reviews, 2016, 53, 1611-1616.	8.2	84
49	Novel Segmentation Technique for Measured Three-Phase Voltage Dips. Energies, 2015, 8, 8319-8338.	1.6	7
50	Smart metering system for microgrids. , 2015, , .		9
51	Validation of a embeddable voltage phasor magnitude meter for household and commercial environments. , 2015, , .		1
52	Supraharmonics (2 to 150 kHz) and multi-level converters. , 2015, , .		11
53	Analysis of variations in PV production, focussing on storage and dispatchability decisions. , 2015, , .		4
54	Advanced smart metering infrastructure for future smart homes. , 2015, , .		13

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55	Stochastic model for lighting's electricity consumption in the residential sector. Impact of energy saving actions. <i>Energy and Buildings</i> , 2015, 89, 245-259.	3.1	44
56	Supraharmonics from power electronics converters. , 2015, , .		32
57	Harmonic phase angles for a domestic customer with different types of lighting. <i>International Transactions on Electrical Energy Systems</i> , 2015, 25, 1281-1296.	1.2	12
58	Intelligent electronic device for the control of distributed generation. , 2014, , .		3
59	A fast RMS meter for detecting sag events in household environments. , 2014, , .		6
60	Activities related with electricity consumption in the Spanish residential sector: Variations between days of the week, Autonomous Communities and size of towns. <i>Energy and Buildings</i> , 2014, 79, 84-97.	3.1	31
61	Study on harmonic emission of domestic equipment combined with different types of lighting. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 55, 116-127.	3.3	31
62	A novel neural network method for wind speed forecasting using exogenous measurements from agriculture stations. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 55, 295-304.	2.5	25
63	Harmonics from household equipment and different lamp technologies. , 2013, , .		12
64	Energy consumption of audiovisual devices in the residential sector: Economic impact of harmonic losses. <i>Energy</i> , 2013, 60, 292-301.	4.5	23
65	Active functions implementation in smart inverters for distributed energy resources. , 2013, , .		12
66	Low-rate wireless personal area networks applied to street lighting. <i>Lighting Research and Technology</i> , 2013, 45, 90-101.	1.2	5
67	Analysis and modeling of active occupancy of the residential sector in Spain: An indicator of residential electricity consumption. <i>Energy Policy</i> , 2013, 62, 742-751.	4.2	82
68	Higher-order statistics: Discussion and interpretation. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 2816-2827.	2.5	16
69	An application of the spectral kurtosis to characterize power quality events. <i>International Journal of Electrical Power and Energy Systems</i> , 2013, 49, 386-398.	3.3	18
70	Spatial persistence in wind analysis. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013, 119, 48-52.	1.7	8
71	Embedding Synchronized Measurement Technology for Smart Grid Development. <i>IEEE Transactions on Industrial Informatics</i> , 2013, 9, 52-61.	7.2	42
72	Street lamps aggregation analysis through IEC 61000-3-6 approach. , 2013, , .		4

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73	Exogenous Measurements from Basic Meteorological Stations for Wind Speed Forecasting. Energies, 2013, 6, 5807-5825.	1.6	9
74	IEC 61850 GOOSE transfer time measurement in development stage. , 2013, , .		4
75	Power quality events detection using fourth-order spectra. , 2013, , .		1
76	LED street lighting: A power quality comparison among street light technologies. Lighting Research and Technology, 2013, 45, 710-728.	1.2	53
77	Implementation of a Smart Grid Inverter through Embedded Systems. Elektronika Ir Elektrotechnika, 2013, 19, .	0.4	2
78	MCH-R1 Antagonists as Potential Anti-obesity Drugs. Design Strategies and Structure-activity Relationship. Revista Virtual De Quimica, 2013, 5, .	0.1	0
79	Intelligent electronic device for Smart Grid: Statistical approach applied to event detection. , 2012, , .		4
80	HOS-Based Virtual Instrument for Power Quality Assessment. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 1-9.	0.2	1
81	Harmonics from a domestic customer with different lamp technologies. , 2012, , .		12
82	Design of an Intelligent Electronic Device to control a private microgrid. , 2012, , .		6
83	Active occupation profiles in the residential sector in Spain as an indicator of energy consumption. , 2012, , .		3
84	FPGA-based embedded system architecture for power quality measurements. , 2012, , .		7
85	Lighting control system based on DALI and wireless sensor networks. , 2012, , .		13
86	Basic meteorological stations as wind data source: A mesoscalar test. Journal of Wind Engineering and Industrial Aerodynamics, 2012, 107-108, 48-56.	1.7	10
87	A novel virtual instrument for power quality surveillance based in higher-order statistics and case-based reasoning. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1824-1835.	2.5	38
88	Smart Grid Inverter Interface: Statistical approach applied to event detection. , 2012, , .		2
89	In-building lighting management system with wireless communications. , 2012, , .		2
90	Building lighting automation through the integration of DALI with wireless sensor networks. IEEE Transactions on Consumer Electronics, 2012, 58, 47-52.	3.0	55

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91	Platform for Embedded Systems Design in the Smart Grid Framework. Advances in Intelligent and Soft Computing, 2012, , 593-600.	0.2	4
92	Power Quality Analysis Using Higher-Order Statistical Estimators: Characterization of Electrical Sags and Swells. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 22-29.	0.2	1
93	Electromagnetic compatibility test system. , 2011, , .		0
94	HOS-based virtual instrument for power quality assessment. , 2011, , .		3
95	Tracks of power quality transients in high order statistics spaces. , 2011, , .		0
96	Synchronism with Software-Based IEEE 1588–2008 for Smart Grid. , 2011, , .		3
97	HOS and CBR measurement system for PQ assessment. , 2011, , .		1
98	Synchrophasor integration in IEC 61850 standard for SmartGrid and synchronism with PTP-base system. , 2011, , .		5
99	Deterministic Ethernet synchronism with PTP-base system for synchrophasor in Smart Grid. , 2011, , .		4
100	Voltage regulator system based on a PWM AC chopper converter. , 2011, , .		12
101	Harmonic effect in street lighting. , 2011, , .		2
102	Study of harmonic generated by electromagnetic and electronic ballast used in street lighting. , 2011, , .		4
103	Distributed DC-UPS for energy smart buildings. Energy and Buildings, 2011, 43, 93-100.	3.1	15
104	Energy efficiency criteria in uninterruptible power supply selection. Applied Energy, 2011, 88, 1312-1321.	5.1	22
105	Characterization of electrical sags and swells using higher-order statistical estimators. Measurement: Journal of the International Measurement Confederation, 2011, 44, 1453-1460.	2.5	40
106	A novel inference method for local wind conditions using genetic fuzzy systems. Renewable Energy, 2011, 36, 1747-1753.	4.3	9
107	Low-Rate Wireless Personal Area Networks and DALI Protocol Applied to Street Lighting. Lecture Notes in Electrical Engineering, 2011, , 465-472.	0.3	1
108	Characterizing the harmonic attenuation effect of high-pressure sodium lamps. , 2010, , .		8

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109	A web-based distributed measurement system for electrical power quality assessment. Measurement: Journal of the International Measurement Confederation, 2010, 43, 771-780.	2.5	19
110	On-site non-destructive measurement of termite activity using the spectral kurtosis and the discrete wavelet transform. Measurement: Journal of the International Measurement Confederation, 2010, 43, 1472-1488.	2.5	13
111	Improvement of power quality using distributed generation. International Journal of Electrical Power and Energy Systems, 2010, 32, 1069-1076.	3.3	63
112	Grid interconnection of renewable energy sources: Spanish legislation. Energy for Sustainable Development, 2010, 14, 104-109.	2.0	12
113	Automatic classification of Power Quality disturbances via higher-order cumulants and self-organizing networks. , 2010, , .		2
114	A IEEE1588-based system for synchronized PMUs and protective relaying functions. , 2010, , .		2
115	A web-based distributed measurement system for electrical Power Quality monitoring. , 2010, , .		6
116	Embedding measurement in Distribution Automation Systems. , 2010, , .		5
117	Transformerless power line voltage conditioner and regulator based on CA PWM Chopper. , 2010, , .		3
118	Simul-EMI II: An Application to Simulate Electric and Magnetic Phenomena in PCB Designs. Lecture Notes in Computer Science, 2010, , 489-498.	1.0	1
119	Energy supply for sustainable regional development in Cordoba. , 2010, , .		2
120	A experimental IEEE1588-BASED system for synchronized phasor measurement in electric substation. , 2010, , .		2
121	Active learning in power electronics: From classroom to laboratory. , 2010, , .		4
122	Amplitude-frequency classification of Power Quality transients using higher-order cumulants and Self-Organizing Maps. , 2010, , .		0
123	DSP algorithm for the real-time detection of power quality surge transients. , 2009, , .		6
124	Power quality immunity in factory automation. , 2009, , .		7
125	Categorization of minimum error forecasting zones using a geostatistic wind model. , 2009, , .		1
126	DSP algorithm for the real time detection of power quality surge transients. , 2009, , .		5

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127	Higher-order characterization of power quality transients and their classification using competitive layers. , 2009, , .		3
128	Grid interconnection of distributed generation: The Spanish normative. , 2009, , .		5
129	Distributed energy resources interconnection: The Spanish normative. , 2009, , .		3
130	Higher-order characterization of power quality transients and their classification using competitive layers. Measurement: Journal of the International Measurement Confederation, 2009, 42, 478-484.	2.5	24
131	Power quality for energy efficient buildings. , 2009, , .		6
132	Spectral Kurtosis based system for transients' detection: Application to termite targeting. , 2009, , .		1
133	Distributed resources standards: The case of Spain. , 2009, , .		2
134	Power quality and energy efficiency in e-offices. , 2009, , .		1
135	Categorization of minimum error forecasting zones using a geostatistic wind speed model. , 2009, , .		1
136	DSP for the real time detection of power quality surge transients. , 2009, , .		4
137	Hypermedia user-interface integration in distribution power systems SCADA. , 2009, , .		1
138	Hypermedia graphic user interface integration in distribution management systems. , 2009, , .		1
139	Hypermedia user interface integration in distribution management systems. , 2009, , .		0
140	ARIMA vs. Neural networks for wind speed forecasting. , 2009, , .		41
141	Higher-order spectra measurement techniques of termite emissions. A characterization framework. Measurement: Journal of the International Measurement Confederation, 2008, 41, 105-118.	2.5	25
142	Higher-order cumulants and spectral kurtosis for early detection of subterranean termites. Mechanical Systems and Signal Processing, 2008, 22, 279-294.	4.4	43
143	Very short term forecasting of solar radiation. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	29
144	Short term forecasting of solar radiation. , 2008, , .		43

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145	Integrating power quality to automated meter reading. IEEE Industrial Electronics Magazine, 2008, 2, 10-18.	2.3	15
146	Power Quality monitoring integration into distribution automation through the use of AMR. , 2008, , .		0
147	Application of smart sensors to the measurement of power quality. , 2008, , .		5
148	Wireless technology applied to stimulation systems for auditory deficit children. , 2008, , .		2
149	Integration of Power Quality into distribution automation through the use of AMR. , 2008, , .		1
150	Voltage Sag in Highly Automated Factories. , 2008, , .		11
151	An easy and direct method for the synthesis of 1,2,4-triazole derivatives through carboxylic acids and hydrazinophthalazine. Quimica Nova, 2008, 31, 536-538.	0.3	3
152	Higher-order spectral characterization of termite emissions using acoustic emission probes. , 2007, , .		1
153	A practical review on Higher-Order Statistics interpretation. Application to Electrical Transients Characterization. Proc Int Symp Image Signal Process Anal, 2007, , .	0.0	13
154	Subterranean Termite Detection Using the Spectral Kurtosis. , 2007, , .		1
155	Quality standards for "clean" electrical supplies. Facilities, 2007, 25, 61-77.	0.8	7
156	Power line conditioner based on CA PWM Chopper. , 2007, , .		13
157	Automated Meter Reading Systems in Outage Management. , 2007, , .		11
158	Characterization and classification of electrical transients using higher-order statistics and neural networks. , 2007, , .		0
159	A Practical Approach To Higher-Order Statistics. An Application to Electrical Transients Characterization. , 2007, , .		1
160	Electronic Loads and Power-quality. Power Systems, 2007, , 325-352.	0.3	2
161	Analysis of sag compensation with dynamic voltage restorer. , 2006, , .		4
162	Voltage sag in a highly automated plants. , 2006, , .		1

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163	Wavelets and wavelet packets applied to detect and characterize transient alarm signals from termites. <i>Measurement: Journal of the International Measurement Confederation</i> , 2006, 39, 553-564.	2.5	20
164	Characterisation of frequency instability and frequency offset using instruments with incomplete data sheets. <i>Measurement: Journal of the International Measurement Confederation</i> , 2006, 39, 664-673.	2.5	4
165	Power Quality in Clinical Facilities. <i>Journal of Medical Systems</i> , 2006, 30, 71-81.	2.2	3
166	Power quality in high-tech campus: A case study. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2006, 220, 257-269.	0.8	27
167	Power quality in high-tech campus: an exemplary case study. , 2005, , .		3
168	Two Applications for Power Quality Analysis using the Matlab Wavelet Toolbox. <i>Renewable Energy and Power Quality Journal</i> , 2005, 1, 35-39.	0.2	4
169	Synthesis and evaluation of new hydrazide derivatives as neuropeptide Y Y5 receptor antagonists for the treatment of obesity. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 4717-4723.	1.4	12
170	Synthesis and evaluation of new arylsulfonamidomethylcyclohexyl derivatives as human neuropeptide Y Y5 receptor antagonists for the treatment of obesity. <i>European Journal of Medicinal Chemistry</i> , 2004, 39, 49-58.	2.6	9
171	Synthesis of new thiophene and benzo[b]thiophene hydrazide derivatives as human NPY Y5 antagonists. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 597-599.	1.0	17
172	Power Quality in a University Campus: The User's Perspective. <i>Renewable Energy and Power Quality Journal</i> , 2004, 1, 19-24.	0.2	7
173	Hypermedia Design Methodology in World Wide Web Applications. <i>International Journal of Human-Computer Interaction</i> , 2002, 14, 251-270.	3.3	4
174	Power quality in high-tech plants: a case study. , 0, , .		6
175	Study of sag compensation with DVR. , 0, , .		24
176	Voltage sag in a highly automated plants. , 0, , .		3
177	Study of voltage sag in a highly automated plant. , 0, , .		6
178	Analysis of voltage dips in PWM AC-DC converters. , 0, , .		5
179	Emission on the low voltage grid: measurements in an urban area. <i>Renewable Energy and Power Quality Journal</i> , 0, , 745-749.	0.2	0