Jose A Afonso

List of Publications by Year
in descending order

60	377	1039406 9	1058022 14
papers	citations	h-index	g-index

66	66	66	403
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vehicle Electrification: New Challenges and Opportunities for Smart Grids. Energies, 2019, 12, 118.	1.6	36
2	Performance Evaluation of Bluetooth Low Energy for High Data Rate Body Area Networks. Wireless Personal Communications, 2016, 90, 121-141.	1.8	31
3	MAC Protocol for Low-Power Real-Time Wireless Sensing and Actuation. , 2006, , .		29
4	An Energy Management Platform for Public Buildings. Electronics (Switzerland), 2018, 7, 294.	1.8	22
5	IoT and Blockchain Paradigms for EV Charging System. Energies, 2019, 12, 2987.	1.6	19
6	An Enhanced Reservation-Based MAC Protocol for IEEE 802.15.4 Networks. Sensors, 2011, 11, 3852-3873.	2.1	16
7	Mobile Cockpit System for Enhanced Electric Bicycle Use. IEEE Transactions on Industrial Informatics, 2015, 11, 1017-1027.	7.2	16
8	Wireless Hydrotherapy Smart-Suit Network for Posture Monitoring. , 2007, , .		13
9	Remote Patient Monitoring Based on ZigBee: Lessons from a Real-World Deployment. Telemedicine Journal and E-Health, 2014, 20, 47-54.	1.6	13
10	Blockchain and Internet of Things for Electrical Energy Decentralization: A Review and System Architecture. Energies, 2021, 14, 8043.	1.6	11
11	A Bluetooth-based Wireless Distributed Data Acquisition and Control System. , 2006, , .		10
12	Experimental Validation of a Bidirectional Three-Level dc-dc Converter for On-Board or Off-Board EV Battery Chargers. , 2019, , .		10
13	Towards the design of efficient nonbeacon-enabled ZigBee networks. Computer Networks, 2012, 56, 2714-2725.	3.2	9
14	IoT system for anytime/anywhere monitoring and control of vehicles' parameters. , 2017, , .		9
15	A Fly-By-Wireless UAV Platform Based on a Flexible and Distributed System Architecture. , 2006, , .		8
16	Fast retransmission of real-time traffic in HIPERLAN/2 systems. , 2005, , .		7
17	Development of an IoT System with Smart Charging Current Control for Electric Vehicles. , 2018, , .		7
18	Home Energy Monitoring System Towards Smart Control of Energy Consumption. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 40-53.	0.2	7

#	Article	IF	Citations
19	Wireless Communication and Management System for E-Bike Dynamic Inductive Power Transfer Lanes. Electronics (Switzerland), 2020, 9, 1485.	1.8	7
20	HM4All: A vital signs monitoring system based in spatially distributed ZigBee networks. , 2010, , .		6
21	A Telerehabilitation System based on Wireless Motion Capture Sensors. , 2014, , .		6
22	Innovative Off-Board EV Home Charging Station as a Smart Home Enabler: Present and Proposed Perspectives. , 2018, , .		5
23	Vehicle Electrification: Technologies, Challenges, and a Global Perspective for Smart Grids. , 0, , .		5
24	Experimental Evaluation of IEEE 802.15.4/ZigBee for Multi-patient ECG Monitoring. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 184-191.	0.2	5
25	Design and Implementation of a Real-Time Wireless Sensor Network. , 2007, , .		4
26	An improved MAC protocol with a reconfiguration scheme for wireless e-health systems requiring quality of service. , 2009, , .		4
27	Performance evaluation of a ZigBee-based medical sensor network. , 2009, , .		4
28	Quality of Service in Wireless e-Emergency: Main Issues and a Case-Study. Advances in Soft Computing, 2009, , 95-102.	0.4	4
29	The Need for Standardized Tests to Evaluate the Reliability of Data Transport in Wireless Medical Systems. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 137-145.	0.2	4
30	A 2.4-GHz wireless sensor network for smart electronic shirts integration. , 2007, , .		3
31	Design and Development of a Fly-by-Wireless UAV Platform. , 0, , .		3
32	Body Attenuation and Path Loss Exponent Estimation for RSS-Based Positioning in WSN. Wireless Personal Communications, 2017, 94, 835-857.	1.8	3
33	A Low-Cost ZigBee-Based Wireless Industrial Automation System. Lecture Notes in Electrical Engineering, 2017, , 739-749.	0.3	3
34	Smart home power management system for electric vehicle battery charger and electrical appliance control. International Transactions on Electrical Energy Systems, 2021, 31, e12812.	1.2	3
35	Development of an Internet of Things System for Smart Home HVAC Monitoring and Control. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 197-208.	0.2	3
36	Tracking Users Mobility Patterns Towards CO2 Footprint. Advances in Intelligent Systems and Computing, 2016, , 87-96.	0.5	3

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37	Hierarchical Wireless Networks of Body Sensor Networks for Healthcare Applications. , 0, , 65-86.		3
38	Improving the Communication Reliability of Body Sensor Networks Based on the IEEE 802.15.4 Protocol. Telemedicine Journal and E-Health, 2014, 20, 261-268.	1.6	2
39	Selective Harmonic Measurement and Compensation Using Smart Inverters in a Microgrid with Distributed Generation. , 2018, , .		2
40	Design of an Intrinsically Safe Series-Series Compensation WPT System for Automotive LiDAR. Electronics (Switzerland), 2020, 9, 86.	1.8	2
41	Trade-off Analysis of a MAC Protocol for Wireless e-Emergency Systems. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 222-235.	0.2	2
42	Experimental Study on RSS Based Indoor Positioning Algorithms. , 2015, , 451-466.		2
43	<title>Server selection on the Internet using passive probing</title>. , 1997, 3020, 252.		1
44	Model Predictive Current Control of a Slow Battery Charger for Electric Mobility Applications. Lecture Notes in Electrical Engineering, 2017, , 643-653.	0.3	1
45	Mobile device sensing system for urban goods distribution logistics. , 2017, , .		1
46	A Proposed Single-Phase Five-Level PFC Rectifier for Smart Grid Applications: An Experimental Evaluation. , 2019, , .		1
47	An Experimental Study of ZigBee for Body Sensor Networks. , 2014, , 467-481.		1
48	Mobile Sensing System for Cycling Power Output Control. Lecture Notes in Electrical Engineering, 2017, , 773-783.	0.3	1
49	Electronic-digital detection system for an optical fiber current sensor. , 1991, , .		0
50	<title>Electronic polarimetric detection system for optical fiber sensor application</title>. , 1991, , .		0
51	A Flexible Framework for Data Exchange and Presentation between Wireless Sensor Networks and Personal Devices. , 2007, , .		0
52	Simulation analysis of IEEE 802.15.4 for wireless networked control systems. , 2009, , .		0
53	Wireless Body Area Network for Cycling Posture Monitoring. , 2016, , 503-517.		0
54	A Novel Fixed Switching Frequency Control Strategy Applied to an Improved Five-Level Active Rectifier. , 2018, , .		0

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55	A SMARTPHONE-BASED MULTI-SENSOR WIRELESS PLATFORM FOR CYCLING PERFORMANCE MONITORING. , 2016, , .		0
56	Digital Control of a Novel Single-Phase Three-Port Bidirectional Converter to Interface Renewables and Electric Vehicles with the Power Grid. Lecture Notes in Electrical Engineering, 2017, , 667-677.	0.3	0
57	An Intra-vehicular Wireless Sensor Network Based on Android Mobile Devices and Bluetooth Low Energy. , 2019, , 299-312.		0
58	Comprehensive Study for a Rail Power Conditioner Based on a Singleâ€“Phase Fullâ€“Bridge Backâ€“toâ€“Back Indirect Modular Multilevel Converter. , 2019, , 263-279.		0
59	The Electric Vehicle in Smart Homes: A Review and Future Perspectives. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 3-17.	0.2	0
60	Continuous Control Set Model Predictive Control of a Bridgeless-Boost Three-Level Active Rectifier. , 2021, , .		0