

Tiago J C Sousa

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

225
citations

1683354

5
h-index

1372195

10
g-index

47
all docs

47
docs citations

47
times ranked

158
citing authors

#	ARTICLE	IF	CITATIONS
1	New Perspectives for Vehicle-to-Vehicle (V2V) Power Transfer. , 2018, , .		41
2	A Review on Power Electronics Technologies for Electric Mobility. Energies, 2020, 13, 6343.	1.6	26
3	A Review on Power Electronics Technologies for Power Quality Improvement. Energies, 2021, 14, 8585.	1.6	23
4	Power quality phenomena in electrified railways: Conventional and new trends in power quality improvement toward public power systems. , 2018, , .		15
5	Single-Phase Shunt Active Power Filter Based on a 5-Level Converter Topology. Energies, 2018, 11, 1019.	1.6	12
6	An Off-Board Multi-Functional Electric Vehicle Charging Station for Smart Homes: Analysis and Experimental Validation. Energies, 2020, 13, 1864.	1.6	9
7	New Multifunctional Isolated Microinverter with Integrated Energy Storage System for PV Applications. Energies, 2020, 13, 4016.	1.6	8
8	Comparative Analysis of Power Electronics Topologies to Interface dc Homes with the Electrical ac Power Grid. , 2019, , .		7
9	A Novel Multilevel Converter for On-Grid Interface of Renewable Energy Sources in Smart Grids. , 2019, , .		6
10	A Proposed Bidirectional Three-Level dc-dc Power Converter for Applications in Smart Grids: An Experimental Validation. , 2019, , .		6
11	A Novel Multi-Objective Off-Board EV Charging Station for Smart Homes. , 2018, , .		5
12	Innovative Off-Board EV Home Charging Station as a Smart Home Enabler: Present and Proposed Perspectives. , 2018, , .		5
13	Comprehensive Analysis and Experimental Validation of Five-Level Converters for EV Battery Chargers Framed in Smart Grids. , 2019, , .		5
14	Vehicle Electrification: Technologies, Challenges, and a Global Perspective for Smart Grids. , 0, , .		5
15	Comparative Analysis of Vehicle-to-Vehicle (V2V) Power Transfer Configurations without Additional Power Converters. , 2020, , .		4
16	Improved Voltage Control for the Electric Vehicle Operation in V2H Mode as an Off-Line UPS in the Context of Smart Homes. EAI Endorsed Transactions on Energy Web, 2020, 7, 160980.	0.3	4
17	Power Electronics Converters for an Electric Vehicle Fast Charging Station with Storage Capability. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 119-130.	0.2	4
18	A Review on Integrated Battery Chargers for Electric Vehicles. Energies, 2022, 15, 2756.	1.6	4

#	ARTICLE	IF	CITATIONS
19	Modified Particle Swarm Optimization applied to integrated demand response and DG resources scheduling. , 2014, , .		3
20	Single-phase shunt active power filter with UPS operation using a bidirectional Dc-Dc converter for energy storage interface. , 2017, , .		3
21	A Novel Topology of Multilevel Bidirectional and Symmetrical Split-Pi Converter. , 2020, , .		3
22	Unified Three-Port Topology Integrating a Renewable and an Energy Storage System with the Grid-Interface Operating as Active Power Filter. , 2020, , .		3
23	Power Electronics Converters for an Electric Vehicle Fast Charging Station with Energy Storage System and Renewable Energy Sources. EAI Endorsed Transactions on Energy Web, 2020, 7, 161749.	0.3	3
24	Selective Harmonic Measurement and Compensation Using Smart Inverters in a Microgrid with Distributed Generation. , 2018, , .		2
25	Sliding Mode Control of an Innovative Single-Switch Three-Level Active Rectifier. , 2019, , .		2
26	Unified Power Converter Based on a Dual-Stator Permanent Magnet Synchronous Machine for Motor Drive and Battery Charging of Electric Vehicles. Energies, 2021, 14, 3344.	1.6	2
27	The Role of Off-Board EV Battery Chargers in Smart Homes and Smart Grids: Operation with Renewables and Energy Storage Systems. , 2020, , 47-72.		2
28	Performance Comparison of a Typical Nonlinear Load Connected to Ac and Dc Power Grids. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 54-63.	0.2	2
29	Performance Comparison of a Typical Nonlinear Load Supplied by ac and dc Voltages. EAI Endorsed Transactions on Energy Web, 2020, 7, 161748.	0.3	2
30	Day-ahead resource scheduling including demand response for electric vehicles. , 2014, , .		1
31	A Novel Five-Level Semi-Bridgeless Power Factor Correction Topology. , 2018, , .		1
32	A Novel Control Strategy Based on Predictive Control for a Bidirectional Interleaved Three-Phase Converter. , 2018, , .		1
33	A Novel Single-Phase Bidirectional Nine-Level Converter Employing Four Quadrant Switches. , 2018, , .		1
34	A novel two-switch three-level active rectifier for grid-connected electrical appliances in smart grids. , 2018, , .		1
35	Integrated System for Traction and Battery Charging of Electric Vehicles with Universal Interface to the Power Grid. IFIP Advances in Information and Communication Technology, 2019, , 355-366.	0.5	1
36	Unified Systems for Traction and Battery Charging of Electric Vehicles: A Sustainability Perspective. EAI Endorsed Transactions on Energy Web, 2021, 8, 170557.	0.3	1

#	ARTICLE	IF	CITATIONS
37	Model Predictive Control of a Single-Phase Five-Level VIENNA Rectifier. , 2021, , .		1
38	Performance Evaluation of a Proportional-Integral with Proportional-Derivative Feedforward Voltage Control for UPSs. , 2018, , .		0
39	A Novel Fixed Switching Frequency Control Strategy Applied to an Improved Five-Level Active Rectifier. , 2018, , .		0
40	Improved Voltage Control of the Electric Vehicle Operating as UPS in Smart Homes. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 1-12.	0.2	0
41	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
42	Advanced Load-Shift System: An Experimental Validation of the ac-dc Converter as Shunt Active Power Filter. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 257-268.	0.2	0
43	Unified Traction and Battery Charging Systems for Electric Vehicles: A Sustainability Perspective. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 58-69.	0.2	0
44	A Three-Phase Bidirectional Variable Speed Drive: An Experimental Validation for a Three-Phase Induction Motor. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 47-57.	0.2	0
45	Enhanced Three-Phase Shunt Active Power Filter Interfacing a Renewable and an Energy Storage System. , 2021, , .		0