Maria Angeles Martin Prats

List of Publications by Year
in descending order

35 papers	6,651 citations	840585 11 h-index	713332 21 g-index
35 all docs	35 docs citations	35 times ranked	4734 citing authors

#	ARTICLE	IF	CITATIONS
1	Power-Electronic Systems for the Grid Integration of Renewable Energy Sources: A Survey. IEEE Transactions on Industrial Electronics, 2006, 53, 1002-1016.	5.2	3,182
2	The age of multilevel converters arrives. IEEE Industrial Electronics Magazine, 2008, 2, 28-39.	2.3	1,630
3	Multilevel Converters: An Enabling Technology for High-Power Applications. Proceedings of the IEEE, 2009, 97, 1786-1817.	16.4	970
4	Modeling Strategy for Back-to-Back Three-Level Converters Applied to High-Power Wind Turbines. IEEE Transactions on Industrial Electronics, 2006, 53, 1483-1491.	5.2	191
5	Three-dimensional space vector modulation in abc coordinates for four-leg voltage source converters. IEEE Power Electronics Letters, 2003, 1, 104-109.	1.1	125
6	Three-dimensional space-vector modulation algorithm for four-leg multilevel converters using abc coordinates. IEEE Transactions on Industrial Electronics, 2006, 53, 458-466.	5.2	110
7	A 3-D space vector modulation generalized algorithm for multilevel converters. IEEE Power Electronics Letters, 2003, 1, 110-114.	1.1	87
8	Model Based Adaptive Direct Power Control for Three-Level NPC Converters. IEEE Transactions on Industrial Informatics, 2013, 9, 1148-1157.	7.2	85
9	A SVM-3D generalized algorithm for multilevel converters. , 0, , .		30
10	New fast space-vector modulation for multilevel converters based on geometrical considerations. , 0, , .		25
11	Effective algorithm for multilevel converters with very low computational cost. Electronics Letters, 2002, 38, 1398.	0.5	20
12	DC-link capacitors voltage balancing in multilevel four-leg diode-clamped converters. , 2005, , .		20
13	A switching control strategy based on output regulation subspaces for the control of induction motors using a three-level inverter. IEEE Power Electronics Letters, 2003, 1, 29-32.	1.1	19
14	Spacecraft magnetic attitude control using approximating sequence Riccati equations. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 3374-3385.	2.6	19
15	Modeling of a three level converter used in a synchronous rectifier application. , 0, , .		18
16	Control of a three level converter used as a synchronous rectifier. , 0, , .		15
17	Smart Shielding Techniques for Common Mode Chokes in EMI Filters. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1329-1336.	1.4	11
18	A Survey on Bidirectional DC/DC Power Converter Topologies for the Future Hybrid and All Electric Aircrafts. Energies, 2020, 13, 4883.	1.6	11

#	Article	IF	Citations
19	Three dimensional space vector modulation for four-leg inverters using natural coordinates. , 2004, , .		10
20	Modeling of Five-Level Converter Used in a Synchronous Rectifier Application. , 0, , .		9
21	A NOVEL SPACE-VECTOR ALGORITHM FOR MULTILEVEL CONVERTERS BASED ON GEOMETRICAL CONSIDERATIONS USING A NEW SEQUENCE CONTROL TECHNIQUE. Journal of Circuits, Systems and Computers, 2004, 13, 845-861.	1.0	8
22	Overcoming the Effect of Test Fixtures on the Measurement of Parasitics of Capacitors and Inductors. IEEE Transactions on Power Electronics, 2020, 35, 15-19.	5.4	8
23	Improving Performance of Compact EMI Filters by Using Metallic and Ferrite Sheets. IEEE Transactions on Power Electronics, 2021, 36, 9057-9068.	5.4	8
24	Failure Detection by Signal Similarity Measurement of Brushless DC Motors. Energies, 2019, 12, 1364.	1.6	7
25	Simple Setup for Measuring the Response to Differential Mode Noise of Common Mode Chokes. Electronics (Switzerland), 2020, 9, 381.	1.8	6
26	Characterization of Three-Phase Common-Mode Chokes at High Frequencies. IEEE Transactions on Power Electronics, 2018, 33, 6471-6475.	5.4	5
27	Simple and advanced three dimensional spacevector modulation algorithm for four-leg multilevel converters topology. , 0, , .		4
28	New State Vectors Selection Using Space Vector Modulation in Three Dimensional Control Regions for Multilevel Converters. , 2006, , .		4
29	Real time sensor acquisition platform for experimental UAV research. , 2009, , .		4
30	Design of a Middleware Interface for ARINC 429 Data Bus. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 1136-1149.	2.6	4
31	Effective space-vector modulation algorithm for multilevel converters. , 0, , .		2
32	Design and performance of an adaptation middleware interface for a civil avionic bus. , 2009, , .		2
33	The PERSEUS Project to Promote Excellence in Aerospace Education. , 2017, , .		1
34	High Technology Readiness Level Techniques for Brushless Direct Current Motors Failures Detection: A Systematic Review. Energies, 2020, 13, 1573.	1.6	1
35	Reducing Conducted Emissions at the Output of Full-Bridge DCDC Converters with High Voltage Steps. Electronics (Switzerland), 2021, 10, 1373.	1.8	0