

Damian Giaouris

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.

69

papers

1,566

citations

21

h-index

38

g-index

83

ext. papers

1,982

ext. citations

4.7

avg, IF

4.86

L-index

#	Paper	IF	Citations
69	A Joint Risk and Security Constrained Control Framework for Real-Time Energy Scheduling of Islanded Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2022 , 1-1	10.7	1
68	Active Participation of Buildings in the Energy Networks: Dynamic/Operational Models and Control Challenges. <i>Energies</i> , 2021 , 14, 7220	3.1	3
67	Optimising Building-to-Building and Building-for-Grid Services under Uncertainty: A Robust Rolling Horizon Approach. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	1
66	Stochastic Procurement of Fast Reserve Services in Renewable Integrated Power Systems. <i>IEEE Access</i> , 2021 , 9, 30946-30959	3.5	2
65	Active Building as an Energy System: Concept, Challenges, and Outlook. <i>IEEE Access</i> , 2021 , 1-1	3.5	8
64	Improved Voltage Boundary With Model-Based Control Algorithm for Increased Torque in the Field Weakening Region of Induction Machines. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 1600-1614	7.6	3
63	Boosting integration capacity of electric vehicles: A robust security constrained decision making. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 133, 107229	5.1	0
62	Piecewise Quadratic Slope Compensation Technique for DC-DC Switching Converters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 5574-5585	3.9	5
61	Demand Response Model Development for Smart Households Using Time of Use Tariffs and Optimal Control: The Isle of Wight Energy Autonomous Community Case Study. <i>Energies</i> , 2020 , 13, 541	3.1	3
60	Reinforcement learning based adaptive power pinch analysis for energy management of stand-alone hybrid energy storage systems considering uncertainty. <i>Energy</i> , 2020 , 193, 116622	7.9	22
59	Application of the Filippov Method to PV-fed DC-DC converters modeled as hybrid-DAEs. <i>Engineering Reports</i> , 2020 , 2, e12237	1.2	3
58	Linearized Hybrid Stochastic/Robust Scheduling of Active Distribution Networks Encompassing PVs. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 357-367	10.7	18
57	Polynomial Curve Slope Compensation for Peak-Current-Mode-Controlled Power Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 470-481	8.9	6
56	Probabilistic adaptive model predictive power pinch analysis (PoPA) energy management approach to uncertainty. <i>Journal of Engineering</i> , 2019 , 2019, 4288-4292	0.7	0
55	Coordinated Storage and Flexible Loads as a Network Service Provider: a Resilience-Oriented Paradigm 2019 ,		5
54	A new method on the limit cycle stability analysis of digitally controlled interleaved DCDC converters. <i>Control Engineering Practice</i> , 2019 , 90, 111-122	3.9	4
53	A Resilience-Based Architecture for Joint Distributed Energy Resources Allocation and Hourly Network Reconfiguration. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 5444-5455	11.9	34

52	Co-optimising distribution network adequacy and security by simultaneous utilisation of network reconfiguration and distributed energy resources. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 4747-4755	2.5	10
51	A Case Study of Real Time Implementation of Extended Kalman Filter in Dual Core DSP for The On-line Estimation of Induction Machine Parameters 2019 ,		1
50	. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6973-6990	7.2	30
49	A systems approach for management of microgrids considering multiple energy carriers, stochastic loads, forecasting and demand side response. <i>Applied Energy</i> , 2018 , 226, 546-559	10.7	27
48	Design of robust digitally controlled DCDC converters in the presence of strong interference. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 1742-1759	2	1
47	Avoiding instabilities in power electronic systems: toward an on-chip implementation. <i>IET Power Electronics</i> , 2017 , 10, 1778-1787	2.2	6
46	Nonlinear Analysis and Control of Interleaved Boost Converter Using Real-Time Cycle to Cycle Variable Slope Compensation. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 7256-7270	7.2	31
45	Optimal cost-based model for sizing grid-connected PV and battery energy system 2017 ,		6
44	Design of PID controllers using Filippov's method for stable operation of DCDC converters. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 1437-1454	2	5
43	Fast-scale stability limits of a two-stage boost power converter. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 1127-1141	2	14
42	Power grand composite curves shaping for adaptive energy management of hybrid microgrids. <i>Renewable Energy</i> , 2016 , 95, 433-448	8.1	8
41	Complex non-linear phenomena and stability analysis of interconnected power converters used in distributed power systems. <i>IET Power Electronics</i> , 2016 , 9, 855-863	2.2	12
40	A power grand composite curves approach for analysis and adaptive operation of renewable energy smart grids. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 1171-1193	4.3	13
39	A Review on Stability Analysis Methods for Switching Mode Power Converters. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2015 , 5, 302-315	5.2	64
38	Adaptive Management of Renewable Energy Smart Grids Using a Power Grand Composite Curves Approach. <i>Computer Aided Chemical Engineering</i> , 2015 , 2411-2416	0.6	1
37	Non-linear modelling and stability analysis of resonant DCDC converters. <i>IET Power Electronics</i> , 2015 , 8, 2492-2503	2.2	9
36	Nonlinear Dynamics and Bifurcation Analysis of a Boost Converter for Battery Charging in Photovoltaic Applications. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2014 , 24, 1450142	2	25
35	Nonlinear analysis for interleaved boost converters based on Monodromy matrix 2014 ,		4

34	Foldings and grazings of tori in current controlled interleaved boost converters. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 1080-1091	2	13
33	Stability of a boost converter fed from photovoltaic source. <i>Solar Energy</i> , 2013 , 98, 458-471	6.8	37
32	Stator current model reference adaptive systems speed estimator for regenerating-mode low-speed operation of sensorless induction motor drives. <i>IET Electric Power Applications</i> , 2013 , 7, 597-606	1.8	46
31	Performance investigation of a hybrid renewable power generation and storage system using systemic power management models. <i>Energy</i> , 2013 , 61, 621-635	7.9	37
30	2013 ,		2
29	Effect of vehicle mass changes on the accuracy of Kalman filter estimation of electric vehicle speed. <i>IET Electrical Systems in Transportation</i> , 2013 , 3, 67-78	2.1	11
28	Dynamical analysis of single-inductor dual-output DC-DC converters 2013 ,		6
27	Reduced Inductance in DC-DC Converter Circuits via the Application of Filippov's Method 2013 , 295-311		
26	Complex Interaction Between Tori and Onset of Three-Frequency Quasi-Periodicity in a Current Mode Controlled Boost Converter. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012 , 59, 207-214	3.9	47
25	LOCAL BIFURCATIONS OF A QUASIPERIODIC ORBIT. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250289	2	4
24	. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 4425-4435	7.2	70
23	Nonlinear stability analysis and a new design methodology for a PEM fuel cell fed DCDC boost converter. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18205-18215	6.7	20
22	Investigation of the near-grazing behavior in hard-impact oscillators using model-based TS fuzzy approach. <i>Nonlinear Dynamics</i> , 2012 , 69, 1293-1309	5	12
21	An experimental assessment of a stator current MRAS based on neural networks for sensorless control of induction machines 2011 ,		8
20	Adaptive PD+I Control of a Switch-Mode DCDC Power Converter Using a Recursive FIR Predictor. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 2135-2144	4.3	37
19	Novel MIMO 4-DOF position control for Capsule Endoscope 2011 ,		2
18	Distributed Static Series Compensation for distribution network line voltage profile improvement 2011 ,		3
17	Chaos, coexisting attractors, and fractal basin boundaries in DC drives with full-bridge converter 2010 ,		2

16	Stability Analysis and Control of Nonlinear Phenomena in Boost Converters Using Model-Based TakagiFugeno Fuzzy Approach. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2010 , 57, 200-212	3.9	41
15	MRAS Sensorless Vector Control of an Induction Motor Using New Sliding-Mode and Fuzzy-Logic Adaptation Mechanisms. <i>IEEE Transactions on Energy Conversion</i> , 2010 , 25, 394-402	5.4	138
14	System identification of PWM dc-dc converters during abrupt load changes 2009 ,		6
13	Application of Filippov method for the analysis of subharmonic instability in dc/dc converters. <i>International Journal of Circuit Theory and Applications</i> , 2009 , 37, 899-919	2	83
12	Sensorless Control of Induction Motor Drives at Very Low and Zero Speeds Using Neural Network Flux Observers. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 3029-3039	8.9	91
11	Universal PLL Strategy for Sensorless Speed and Position Estimation of PMSM 2008 ,		12
10	Performance Evaluation of a Sensorless Induction Motor Drive at Very Low and Zero Speed Using a MRAS Speed Observer 2008 ,		6
9	Controlled AC Electrical Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 481-491	8.9	188
8	Wavelet Denoising for Electric Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 543-550	8.9	43
7	Stability Analysis of the Continuous-Conduction-Mode Buck Converter Via Filippov's Method. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 1084-1096	3.9	150
6	A neural network based stator current MRAS observer for speed sensorless induction motor drives 2008 ,		7
5	Control of Fast Scale Bifurcations in Power-Factor Correction Converters. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2007 , 54, 805-809		48
4	Stability of switching circuits using complete-cycle solution matrices 2006 ,		3
3	Low speed operation improvement of MRAS sensorless vector control induction motor drive using neural network flux observers. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , 2006 ,		2
2	Control of switching circuits using complete-cycle solution matrices 2006 ,		4
1	Fuzzy Logic for Non-smooth Dynamical Systems. <i>Advances in Computer and Electrical Engineering Book Series</i> , 147-168	0.3	0