Damian Giaouris

List of Publications by Citations

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	Controlled AC Electrical Drives. *IEEE Transactions on Industrial Electronics*, **2008**, 55, 481-491	8.9	188
68	Stability Analysis of the Continuous-Conduction-Mode Buck Converter Via Filippov's Method. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2008**, 55, 1084-1096	3.9	150
67	MRAS Sensorless Vector Control of an Induction Motor Using New Sliding-Mode and Fuzzy-Logic Adaptation Mechanisms. *IEEE Transactions on Energy Conversion*, **2010**, 25, 394-402	5.4	138
66	Sensorless Control of Induction Motor Drives at Very Low and Zero Speeds Using Neural Network Flux Observers. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 3029-3039	8.9	91
65	Application of Filippov method for the analysis of subharmonic instability in dc□dc converters. *International Journal of Circuit Theory and Applications*, **2009**, 37, 899-919	2	83
64	. *IEEE Transactions on Power Electronics*, **2012**, 27, 4425-4435	7.2	70
63	A Review on Stability Analysis Methods for Switching Mode Power Converters. *IEEE Journal on Emerging and Selected Topics in Circuits and Systems*, **2015**, 5, 302-315	5.2	64
62	Control of Fast Scale Bifurcations in Power-Factor Correction Converters. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2007**, 54, 805-809		48
61	Complex Interaction Between Tori and Onset of Three-Frequency Quasi-Periodicity in a Current Mode Controlled Boost Converter. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2012**, 59, 207-214	3.9	47
60	Stator current model reference adaptive systems speed estimator for regenerating-mode low-speed operation of sensorless induction motor drives. *IET Electric Power Applications*, **2013**, 7, 597-606	1.8	46
59	Wavelet Denoising for Electric Drives. *IEEE Transactions on Industrial Electronics*, **2008**, 55, 543-550	8.9	43
58	Stability Analysis and Control of Nonlinear Phenomena in Boost Converters Using Model-Based Takagi□Sugeno Fuzzy Approach. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2010**, 57, 200-212	3.9	41
57	Stability of a boost converter fed from photovoltaic source. *Solar Energy*, **2013**, 98, 458-471	6.8	37
56	Performance investigation of a hybrid renewable power generation and storage system using systemic power management models. *Energy*, **2013**, 61, 621-635	7.9	37
55	Adaptive PD+I Control of a Switch-Mode DC□DC Power Converter Using a Recursive FIR Predictor. *IEEE Transactions on Industry Applications*, **2011**, 47, 2135-2144	4.3	37
54	A Resilience-Based Architecture for Joint Distributed Energy Resources Allocation and Hourly Network Reconfiguration. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 5444-5455	11.9	34
53	Nonlinear Analysis and Control of Interleaved Boost Converter Using Real-Time Cycle to Cycle Variable Slope Compensation. *IEEE Transactions on Power Electronics*, **2017**, 32, 7256-7270	7.2	31

52	. *IEEE Transactions on Power Electronics*, **2019**, 34, 6973-6990	7.2	30
51	A systems approach for management of microgrids considering multiple energy carriers, stochastic loads, forecasting and demand side response. *Applied Energy*, **2018**, 226, 546-559	10.7	27
50	Nonlinear Dynamics and Bifurcation Analysis of a Boost Converter for Battery Charging in Photovoltaic Applications. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2014**, 24, 1450142	2	25
49	Reinforcement learning based adaptive power pinch analysis for energy management of stand-alone hybrid energy storage systems considering uncertainty. *Energy*, **2020**, 193, 116622	7.9	22
48	Nonlinear stability analysis and a new design methodology for a PEM fuel cell fed DCDC boost converter. *International Journal of Hydrogen Energy*, **2012**, 37, 18205-18215	6.7	20
47	Linearized Hybrid Stochastic/Robust Scheduling of Active Distribution Networks Encompassing PVs. *IEEE Transactions on Smart Grid*, **2020**, 11, 357-367	10.7	18
46	Fast-scale stability limits of a two-stage boost power converter. *International Journal of Circuit Theory and Applications*, **2016**, 44, 1127-1141	2	14
45	A power grand composite curves approach for analysis and adaptive operation of renewable energy smart grids. *Clean Technologies and Environmental Policy*, **2015**, 17, 1171-1193	4.3	13
44	Foldings and grazings of tori in current controlled interleaved boost converters. *International Journal of Circuit Theory and Applications*, **2014**, 42, 1080-1091	2	13
43	Investigation of the near-grazing behavior in hard-impact oscillators using model-based TS fuzzy approach. *Nonlinear Dynamics*, **2012**, 69, 1293-1309	5	12
42	Universal PLL Strategy for Sensorless Speed and Position Estimation of PMSM **2008**,		12
41	Complex non-linear phenomena and stability analysis of interconnected power converters used in distributed power systems. *IET Power Electronics*, **2016**, 9, 855-863	2.2	12
40	Effect of vehicle mass changes on the accuracy of Kalman filter estimation of electric vehicle speed. *IET Electrical Systems in Transportation*, **2013**, 3, 67-78	2.1	11
39	Co-optimising distribution network adequacy and security by simultaneous utilisation of network reconfiguration and distributed energy resources. *IET Generation, Transmission and Distribution*, **2019**, 13, 4747-4755	2.5	10
38	Non-linear modelling and stability analysis of resonant DCDC converters. *IET Power Electronics*, **2015**, 8, 2492-2503	2.2	9
37	An experimental assessment of a stator current MRAS based on neural networks for sensorless control of induction machines **2011**,		8
36	Power grand composite curves shaping for adaptive energy management of hybrid microgrids. *Renewable Energy*, **2016**, 95, 433-448	8.1	8
35	Active Building as an Energy System: Concept, Challenges, and Outlook. *IEEE Access*, **2021**, 1-1	3.5	8

34	A neural network based stator current MRAS observer for speed sensorless induction motor drives **2008**,		7
33	Avoiding instabilities in power electronic systems: toward an on-chip implementation. *IET Power Electronics*, **2017**, 10, 1778-1787	2.2	6
32	Polynomial Curve Slope Compensation for Peak-Current-Mode-Controlled Power Converters. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 470-481	8.9	6
31	Optimal cost-based model for sizing grid-connected PV and battery energy system **2017**,		6
30	Dynamical analysis of single-inductor dual-output DC-DC converters **2013**,		6
29	System identification of PWM dc-dc converters during abrupt load changes **2009**,		6
28	Performance Evaluation of a Sensorless Induction Motor Drive at Very Low and Zero Speed Using a MRAS Speed Observer **2008**,		6
27	Piecewise Quadratic Slope Compensation Technique for DC-DC Switching Converters. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2020**, 67, 5574-5585	3.9	5
26	Design of PID controllers using Filippov's method for stable operation of DC□DC converters. *International Journal of Circuit Theory and Applications*, **2016**, 44, 1437-1454	2	5
25	Coordinated Storage and Flexible Loads as a Network Service Provider: a Resilience-Oriented Paradigm **2019**,		5
24	A new method on the limit cycle stability analysis of digitally controlled interleaved DC□DC converters. *Control Engineering Practice*, **2019**, 90, 111-122	3.9	4
23	Nonlinear analysis for interleaved boost converters based on Monodromy matrix **2014**,		4
22	LOCAL BIFURCATIONS OF A QUASIPERIODIC ORBIT. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2012**, 22, 1250289	2	4
21	Control of switching circuits using complete-cycle solution matrices **2006**,		4
20	Demand Response Model Development for Smart Households Using Time of Use Tariffs and Optimal Control□The Isle of Wight Energy Autonomous Community Case Study. *Energies*, **2020**, 13, 541	3.1	3
19	Distributed Static Series Compensation for distribution network line voltage profile improvement **2011**,		3
18	Stability of switching circuits using complete-cycle solution matrices **2006**,		3
17	Active Participation of Buildings in the Energy Networks: Dynamic/Operational Models and Control Challenges. *Energies*, **2021**, 14, 7220	3.1	3

16	Application of the Filippov Method to PV-fed DC-DC converters modeled as hybrid-DAEs. *Engineering Reports*, **2020**, 2, e12237	1.2	3
15	Improved Voltage Boundary With Model-Based Control Algorithm for Increased Torque in the Field Weakening Region of Induction Machines. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 1600-1614	7.6	3
14	**2013**,		2
13	Chaos, coexisting attractors, and fractal basin boundaries in DC drives with full-bridge converter **2010**,		2
12	Novel MIMO 4-DOF position control for Capsule Endoscope **2011**,		2
11	Low speed operation improvement of MRAS sensorless vector control induction motor drive using neural network flux observers. *Industrial Electronics Society (IECON), Annual Conference of IEEE*, **2006**,		2
10	Stochastic Procurement of Fast Reserve Services in Renewable Integrated Power Systems. *IEEE Access*, **2021**, 9, 30946-30959	3.5	2
9	Design of robust digitally controlled DC□DC converters in the presence of strong interference. *International Journal of Circuit Theory and Applications*, **2017**, 45, 1742-1759	2	1
8	Adaptive Management of Renewable Energy Smart Grids Using a Power Grand Composite Curves Approach. *Computer Aided Chemical Engineering*, **2015**, 2411-2416	0.6	1
7	Optimising Building-to-Building and Building-for-Grid Services under Uncertainty: A Robust Rolling Horizon Approach. *IEEE Transactions on Smart Grid*, **2021**, 1-1	10.7	1
6	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
5	A Joint Risk and Security Constrained Control Framework for Real-Time Energy Scheduling of Islanded Microgrids. *IEEE Transactions on Smart Grid*, **2022**, 1-1	10.7	1
4	Probabilistic adaptive model predictive power pinch analysis (PoPA) energy management approach to uncertainty. *Journal of Engineering*, **2019**, 2019, 4288-4292	0.7	0
3	Fuzzy Logic for Non-smooth Dynamical Systems. *Advances in Computer and Electrical Engineering Book Series*,147-168	0.3	0
2	Boosting integration capacity of electric vehicles: A robust security constrained decision making. *International Journal of Electrical Power and Energy Systems*, **2021**, 133, 107229	5.1	0
1	Reduced Inductance in DC-DC Converter Circuits via the Application of Filippov□ Method **2013**, 295-311		