

# Kuntal Mandal

## List of Publications by Year in descending order

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33  
papers

380  
citations

840585

11  
h-index

839398

18  
g-index

33  
all docs

33  
docs citations

33  
times ranked

316  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Filippov method based analytical perspective on stability analysis of a DC-AC H-Bridge inverter with nonlinear rectifier load. International Journal of Circuit Theory and Applications, 2022, 50, 1686-1708.	1.3	4
2	Performance Improvement of Electric Vehicle using Reset Switch and Bias. IFAC-PapersOnLine, 2022, 55, 144-149.	0.5	3
3	Design and Analysis of Digitally Controlled Algorithm-in-loop Newton-Raphson Method Based PV Emulator. , 2021, , .		0
4	Auto-Tuned Quadratic Slope Compensation for Current Mode Controlled DC-DC Converters. , 2020, , .		4
5	Piecewise Quadratic Slope Compensation Technique for DC-DC Switching Converters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5574-5585.	3.5	10
6	Design-Oriented Dynamical Analysis of Single-Phase H-Bridge Inverter. , 2020, , .		3
7	Automated Algorithm to Determine Design Curves in Parameter Space for Interconnected Converters. , 2020, , .		0
8	Design of PV Emulator Fed MPPT Controlled DC-DC Boost Converter for Battery Charging. , 2020, , .		2
9	Nonaveraged control-oriented modeling and relative stability analysis of DC-DC switching converters. International Journal of Circuit Theory and Applications, 2018, 46, 565-580.	1.3	7
10	Self-compensation of DC-DC converters under peak current mode control. Electronics Letters, 2017, 53, 345-347.	0.5	15
11	Control-oriented design guidelines to extend the stability margin of switching converters. , 2017, , .		4
12	A novel nonlinear modulation technique for stabilizing DC-DC switching converters. , 2017, , .		1
13	Avoiding instabilities in power electronic systems: toward an on-chip implementation. IET Power Electronics, 2017, 10, 1778-1787.	1.5	11
14	Fast-scale stability limits of a two-stage boost power converter. International Journal of Circuit Theory and Applications, 2016, 44, 1127-1141.	1.3	15
15	Complex nonlinear phenomena and stability analysis of interconnected power converters used in distributed power systems. IET Power Electronics, 2016, 9, 855-863.	1.5	15
16	Synchronization Phenomena in Interconnected Power Electronic Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 221-225.	2.2	15
17	Analysis of Discontinuity Induced Bifurcations in a Dual Input DC-DC Converter. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550071.	0.7	8
18	Nonlinear modelling and stability analysis of resonant DC-DC converters. IET Power Electronics, 2015, 8, 2492-2503.	1.5	10

#	ARTICLE	IF	CITATIONS
19	Synchronization Phenomena in Microgrids With Capacitive Coupling. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, 5, 364-371.	2.7	17
20	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.	0.7	34
21	Dynamical behaviors of interconnected converters in intermediate bus architecture. , 2014, , .		1
22	A New Algorithm for Small-Signal Analysis of DC-DC Converters. IEEE Transactions on Industrial Informatics, 2014, 10, 628-636.	7.2	25
23	Stability analysis of a high-step-Up DC grid-connected two-stage boost DC-DC converter. MATEC Web of Conferences, 2014, 16, 06002.	0.1	0
24	An automated algorithm for stability analysis of hybrid dynamical systems. European Physical Journal: Special Topics, 2013, 222, 757-768.	1.2	22
25	Stability of a boost converter fed from photovoltaic source. Solar Energy, 2013, 98, 458-471.	2.9	51
26	Symmetry-Breaking Bifurcation in Series-Parallel Load Resonant DC-DC Converters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 778-787.	3.5	23
27	Dynamical analysis of single-inductor dual-output DC-DC converters. , 2013, , .		11
28	Bifurcations in frequency controlled load resonant DC-DC converters. , 2012, , .		2
29	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.	3.5	53
30	Determination of stable region of controller parameters for series-parallel resonant converter with capacitive output filter. , 2011, , .		1
31	Symmetry-breaking bifurcation in load resonant dc-dc converters. , 2011, , .		4
32	Quasi-periodic route to chaos in load resonant DC-DC converters. , 2010, , .		4
33	Bifurcations in load resonant DC-DC converters. , 2010, , .		5