

Dinesh Kumar

List of Publications by Year in descending order

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35
papers

1,187
citations

933447

10
h-index

752698

20
g-index

35
all docs

35
docs citations

35
times ranked

1030
citing authors

#	ARTICLE	IF	CITATIONS
1	DC Microgrid Technology: System Architectures, AC Grid Interfaces, Grounding Schemes, Power Quality, Communication Networks, Applications, and Standardizations Aspects. IEEE Access, 2017, 5, 12230-12256.	4.2	522
2	Harmonic Analysis of Grid Connected Power Electronic Systems in Low Voltage Distribution Networks. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 70-79.	5.4	126
3	Lifetime Estimation of DC-Link Capacitors in Adjustable Speed Drives Under Grid Voltage Unbalances. IEEE Transactions on Power Electronics, 2019, 34, 4064-4078.	7.9	118
4	A Comprehensive Review of Maritime Microgrids: System Architectures, Energy Efficiency, Power Quality, and Regulations. IEEE Access, 2019, 7, 67249-67277.	4.2	92
5	Harmonic Emissions of Three-Phase Diode Rectifiers in Distribution Networks. IEEE Access, 2017, 5, 2819-2833.	4.2	73
6	Power Quality Issues of Distorted and Weak Distribution Networks in Mining Industry: A Review. IEEE Access, 2019, 7, 162500-162518.	4.2	27
7	The impact of grid unbalances on the reliability of DC-link capacitors in a motor drive. , 2017, , .		24
8	Lifetime Prediction of DC-Link Capacitors in Multiple Drives System Based on Simplified Analytical Modeling. IEEE Transactions on Power Electronics, 2021, 36, 844-860.	7.9	20
9	Common-Mode Current Prediction and Analysis in Motor Drive Systems for the New Frequency Range of 2â€™150 kHz. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 74-90.	5.4	18
10	Line harmonics on systems using reduced DC-link capacitors. , 2013, , .		17
11	Analysis of three-phase rectifier systems with controlled DC-link current under unbalanced grids. , 2017, , .		14
12	Effects of DC-link filter on harmonic and interharmonic generation in three-phase adjustable speed drive systems. , 2017, , .		13
13	Modelling and prediction of current harmonics generated by power converters in distribution networks. IET Generation, Transmission and Distribution, 2021, 15, 2191-2202.	2.5	13
14	Impact of Supply Voltage Unbalance and Harmonics on dc Bus Electrolytic Capacitor of Adjustable Speed Drives. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	12
15	Lifetime benchmarking of two DC-link passive filtering configurations in adjustable speed drives. , 2018, , .		11
16	Power Quality Assessment for Industrial Plants: A Comparative Study. , 2019, , .		11
17	Current Harmonics Generated by Multiple Adjustable-Speed Drives in Distribution Networks in the Frequency Range of 2â€™9 kHz. IEEE Transactions on Industry Applications, 2022, 58, 4744-4757.	4.9	9
18	Design and analysis of a microgrid system for reliable rural electrification. International Transactions on Electrical Energy Systems, 2021, 31, e12734.	1.9	8

#	ARTICLE	IF	CITATIONS
19	Design of Common DC-Link Capacitor in Multiple-Drive System Based on Reduced DC-Link Current Harmonics Modulation. IEEE Transactions on Power Electronics, 2022, 37, 9703-9717.	7.9	8
20	Frequency Coupling Matrix Model of a Three-Phase Variable Frequency Drive. IEEE Transactions on Industry Applications, 2022, 58, 3652-3663.	4.9	7
21	Effect of Unipolar and Bipolar SPWM on the Lifetime of DC-link Capacitors in Single-Phase Voltage Source Inverters. , 2020, , .		6
22	Modelling Three Phase Variable Frequency Drive Using a Frequency Coupling Matrix. , 2020, , .		5
23	Extremum Seeking as a Tool for Active Damping of Active Front-End Converters. IEEE Transactions on Industrial Electronics, 2023, 70, 3404-3413.	7.9	5
24	DC-Link Current Harmonic Mitigation via Phase-Shifting of Carrier Waves in Paralleled Inverter Systems. Energies, 2021, 14, 4229.	3.1	4
25	Reliability Evaluation of DC-link Capacitors in Multi-drive Systems. , 2019, , .		3
26	Investigating the Effect of Different Parameters on Harmonics and EMI Emissions at the Frequency Range of 0â€”9 kHz. , 2020, , .		3
27	Analysis of 0â€”9 kHz Current Harmonics in a Three-Phase Power Converter Under Unbalanced-Load Conditions. IEEE Access, 2021, 9, 161862-161876.	4.2	3
28	Mathematical Model of Common-Mode Sources in Long-Cable-Fed Adjustable Speed Drives. IEEE Transactions on Industry Applications, 2022, 58, 2013-2028.	4.9	3
29	A Unified Active Damping for Grid and Converter Current Feedback in Active Front End Converters. IEEE Access, 2022, 10, 30913-30924.	4.2	3
30	Current Harmonics Generated by Multi-power Converters in Distribution Networks in the Frequency Range of 2-9 kHz. , 2021, , .		2
31	Effect of Inductor Placement on DC Bus Capacitor of Adjustable Speed Drives. , 2020, , .		2
32	Guest Editorial Advances in Wireless Power Transfer Technologies. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 391-393.	3.9	2
33	A Practical Approach to Model a Cable with Nonlinear Material Characteristics. , 2021, , .		1
34	Common-mode noise modelling and resonant estimation in a three-phase motor drive system: 9-150 kHz frequency range. , 2020, , .		1
35	Harmonic Issues in a Multi-drive Network with Resonances at the Grid Impedance Under Low and High Damping Cases. , 2021, , .		1