

Shruthi Mukundan

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

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206
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupled Magnetic Circuit-Based Design of an IPMSM for Reduction of Circulating Currents in Asymmetrical Star-Δ Windings. IEEE Transactions on Transportation Electrification, 2022, 8, 2971-2984.	7.8	1
2	Torque Performance Enhancement in Consequent Pole PMSM Based on Magnet Pole Shape Optimization for Direct-Drive EV. IEEE Transactions on Magnetics, 2021, 57, 1-7.	2.1	29
3	Structural Analysis of Single-Sided Axial-Flux Permanent Magnet Machines With Different Magnetic Materials. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	9
4	An Algorithm for Effective Design and Performance Investigation of Active Cooling System for Required Temperature and Torque of PM Traction Motor. IEEE Transactions on Magnetics, 2021, 57, 1-7.	2.1	10
5	Improvement of Electromagnetic Force and Acceleration in an Asymmetrical Star-Delta Winding IPMSM through Stator and Rotor Geometrical Modifications. , 2021, , .		2
6	An Overview of PM Synchronous Machine Design Solutions for Enhanced Traction Performance. , 2020, , .		2
7	Investigation of Interior Permanent Magnet Motor With Dampers for Electric Vehicle Propulsion and Mitigation of Saliency Effect During Integrated Charging Operation. IEEE Transactions on Vehicular Technology, 2019, 68, 1254-1265.	6.3	15
8	Advanced Design Optimization Technique for Torque Profile Improvement in Six-Phase PMSM Using Supervised Machine Learning for Direct-Drive EV. IEEE Transactions on Energy Conversion, 2019, 34, 2041-2051.	5.2	44
9	Modeling and Analysis of Novel Star-Delta Winding Configuration with Odd Slot Numbers for Reduced Space Harmonics Using Winding Function. , 2019, , .		5
10	Comparative Performance Analysis of Copper and Aluminum Wound Fractional-Slot PMSMs for High-Speed Traction Application. , 2019, , .		7
11	Non-Dominated Sorting Genetic Algorithm Based Investigation of Optimal Odd Slot Numbers for Stator Shifted Fractional-Slot Wound PMSMs. , 2019, , .		2
12	Slot-pole Selection for Concentrated Wound Consequent Pole PMSM with Reduced EMF and Inductance Harmonics. , 2019, , .		1
13	Multiple Reference Frame-Based Extended Concentrated Wound PMSM Model Considering PM Flux Linkage and Inductance Harmonics. IEEE Transactions on Energy Conversion, 2019, 34, 731-740.	5.2	22
14	Investigation of Phase Angle Displacements in Six-Phase PMSM with Concentrated Windings for Reduced MMF Harmonics. , 2018, , .		6
15	Parameter Determination of PMSM Using Coupled Electromagnetic and Thermal Model Incorporating Current Harmonics. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	14
16	Online Parameter Estimation and Self Commissioning of Permanent Magnet Motor Drive. , 2018, , .		3
17	Design and Optimization of Traction IPMSM With Asymmetrical Damper Bars for Integrated Charging Capability Using Evolutionary Algorithm. IEEE Transactions on Energy Conversion, 2018, 33, 2060-2069.	5.2	6
18	Evaluation of Local Anisotropy of Magnetic Response From Non-Oriented Electrical Steel by Magnetic Barkhausen Noise. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	4

#	ARTICLE	IF	CITATIONS
19	Skewing of stator windings for reduction of spatial harmonics in concentrated wound PMSM. , 2017, , .		8
20	Comparison of inductance determination methods of PMSMs for EV application. , 2017, , .		3
21	Comparative performance analysis of 3-phase IPMSM rotor configurations with dampers for integrated charging application in EVs. , 2017, , .		2
22	Design approach incorporating MTPA and winding function theories for on-board direct-drive surface PM machines with concentrated windings in EVs. , 2016, , .		1
23	Response surface methodology based optimization of surface PM machine incorporating stator slotting and PM sizing effects to extend the operating limits for direct-drive EV application. , 2016, , .		1
24	Investigation of 6-phase surface PM machines with concentrated windings for reduction in space harmonics, leakage inductance and magnet loss in direct-drive EV. , 2016, , .		12
25	Design considerations for permanent magnet machine drives for direct-drive electric vehicles. , 2015, , .		8
26	A Novel Hybrid Technique for Thermal Analysis of Permanent Magnet Synchronous Motor Used in Electric Vehicle Application. , 0, , .		2