

Shanelle N Foster

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Mitigation of Turn-to-Turn Faults in Fault Tolerant Permanent Magnet Synchronous Motors. IEEE Transactions on Energy Conversion, 2015, 30, 465-475.	5.2	75
2	Additive Manufacturing and Topology Optimization of Magnetic Materials for Electrical Machines—A Review. Energies, 2021, 14, 283.	3.1	56
3	A Voltage-Based Approach for Fault Detection and Separation in Permanent Magnet Synchronous Machines. IEEE Transactions on Industry Applications, 2017, 53, 5305-5314.	4.9	43
4	A Method for Online Stator Insulation Prognosis for Inverter-Driven Machines. IEEE Transactions on Industry Applications, 2018, 54, 5897-5906.	4.9	36
5	A simplified characterization method including saturation effects for permanent magnet Machines. , 2012, , .		27
6	Detection of incipient stator winding faults in PMSMs with single-layer fractional slot concentrated windings. Electric Power Systems Research, 2016, 131, 231-243.	3.6	22
7	Comparison between a spoke-type PMSM and a PMASynRM using ferrite magnets. , 2013, , .		21
8	Additive Manufacturing of High Performance Ferromagnetic Materials. , 2018, , .		18
9	Feasibility of hydrogen fuel cell technology for railway intercity services: a case study for the Piedmont in North Carolina. Railway Engineering Science, 2021, 29, 258-270.	4.4	13
10	Evaluation of a Parameter Identification Method for Permanent Magnet AC Machines Through Parametric Sensitivity Analysis. IEEE Transactions on Energy Conversion, 2014, 29, 240-249.	5.2	12
11	Utilizing Fused Filament Fabrication for Printing Iron Cores for Electrical Devices. 3D Printing and Additive Manufacturing, 2020, 7, 279-287.	2.9	10
12	Binder Jet Printed Iron Silicon with Low Hysteresis Loss. , 2019, , .		8
13	Additive Manufacturing of Non-homogeneous Magnetic Cores for Electrical Machines Opportunities and Challenges. , 2020, , .		8
14	Parametric sensitivity in the analysis and control of permanent magnet synchronous machines. , 2012, , .		7
15	Online Detection of MOSFET Gate Oxide Degradation in a Three-Phase Inverter-Drive Application. IEEE Transactions on Transportation Electrification, 2021, 7, 50-57.	7.8	7
16	High performance controllers for Interior Permanent Magnet Synchronous Machines using look-up tables and curve-fitting methods. , 2013, , .		6
17	A Review of Control Methods for PMSM Torque Ripple Reduction. , 2018, , .		6
18	Linear permanent magnet synchronous machine for high acceleration applications. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
19	Reduction in Hysteresis Loss of Binder Jet Printed Iron Silicon With Boron. IEEE Transactions on Industry Applications, 2021, 57, 4864-4873.	4.9	5
20	Reduction in Hysteresis Loss of Binder Jet Printed Iron Silicon. , 2020, , .		5
21	Fault Detection and Identification for Inverter-Driven Permanent Magnet Synchronous Machines. , 2021, , .		5
22	Torque ripple reduction in interior permanent magnet synchronous machines with single-layer fractional slot concentrated windings. , 2015, , .		4
23	Performance analysis of radial and axial flux fractional horsepower motors. , 2016, , .		4
24	Online estimation of remaining useful life of stator insulation. , 2017, , .		4
25	A More Robust Stator Insulation Failure Prognosis for Inverter-Driven Machines. , 2019, , .		4
26	Characterization of Magnetic Anisotropy for Binder Jet Printed Fe93.25Si6.75. , 2019, , .		4
27	A voltage based approach for fault detection and separation in permanent magnet synchronous machines. , 2016, , .		3
28	Comparison of Multi-objective Optimization Methods Applied to Electrical Machine Design. Lecture Notes in Computer Science, 2019, , 719-730.	1.3	2
29	Online MOSFET Condition Monitoring for Inverter-Driven Electric Machines. , 2019, , .		2
30	Dual-Stator Five-Phase Permanent Magnet Synchronous Machine with Hybrid Spoke-Vernier Type Rotor for Electric Vehicles. , 2022, , .		2
31	Stator incipient fault identification in short secondary linear permanent magnet synchronous machines. , 2017, , .		1
32	Erratum to "Mitigation of Turn-to-Turn Faults in Fault Tolerant Permanent Magnet Synchronous Motors" [Jun 15 465-475]. IEEE Transactions on Energy Conversion, 2018, 33, 453-453.	5.2	0
33	Remaining Useful Life Estimation of Stator Insulation Using Particle Filter. , 2019, , .		0
34	Multi-permeability optimization approach for the iron core of a synchronous reluctance machine - an application of additive manufacturing. , 2021, , .		0