

Geraint Jewell

List of Publications by Year in descending order

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53
papers

1,172
citations

516710

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53
docs citations

53
times ranked

755
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid-Excited Flux-Switching Permanent-Magnet Machines With Iron Flux Bridges. IEEE Transactions on Magnetics, 2010, 46, 1726-1729.	2.1	178
2	Effect of Axial Segmentation of Permanent Magnets on Rotor Loss in Modular Permanent-Magnet Brushless Machines. IEEE Transactions on Industry Applications, 2007, 43, 1207-1213.	4.9	121
3	Alternate Poles Wound Flux-Switching Permanent-Magnet Brushless AC Machines. IEEE Transactions on Industry Applications, 2010, 46, 790-797.	4.9	102
4	Cogging Torque in Flux-Switching Permanent Magnet Machines. IEEE Transactions on Magnetics, 2009, 45, 4708-4711.	2.1	101
5	Enhanced Optimal Torque Control of Fault-Tolerant PM Machine Under Flux-Weakening Operation. IEEE Transactions on Industrial Electronics, 2010, 57, 344-353.	7.9	93
6	Optimal Split Ratio in Fractional-Slot Interior Permanent-Magnet Machines With Non-Overlapping Windings. IEEE Transactions on Magnetics, 2010, 46, 1235-1242.	2.1	84
7	Performance Comparison of Doubly Salient Reluctance Machine Topologies Supplied by Sinewave Currents. IEEE Transactions on Industrial Electronics, 2016, 63, 4086-4096.	7.9	46
8	A Review on Conductive Common-Mode EMI Suppression Methods in Inverter Fed Motor Drives. IEEE Access, 2021, 9, 18345-18360.	4.2	34
9	Comparative Studies of Torque Performance Improvement for Different Doubly Salient Synchronous Reluctance Machines by Current Harmonic Injection. IEEE Transactions on Energy Conversion, 2019, 34, 1094-1104.	5.2	27
10	Fault-Tolerant Flux-Switching Permanent Magnet Brushless AC Machines. , 2008, , .		25
11	Comparative Study of Torque Production in Conventional and Mutually Coupled SRMs Using Frozen Permeability. IEEE Transactions on Magnetics, 2016, 52, 1-9.	2.1	25
12	Performance investigation of hybrid excited switched flux permanent magnet machines using frozen permeability method. IET Electric Power Applications, 2015, 9, 586-594.	1.8	24
13	A Review of Circular Economy Research for Electric Motors and the Role of Industry 4.0 Technologies. Sustainability, 2021, 13, 9668.	3.2	24
14	A Novel Spoke-Type Asymmetric Rotor Interior Permanent Magnet Machine. IEEE Transactions on Industry Applications, 2021, 57, 4840-4851.	4.9	24
15	A Novel Asymmetric Interior Permanent Magnet Machine for Electric Vehicles. IEEE Transactions on Energy Conversion, 2021, 36, 2404-2415.	5.2	24
16	Investigation on synchronous reluctance machines with different rotor topologies and winding configurations. IET Electric Power Applications, 2018, 12, 45-53.	1.8	20
17	Novel Modular Switched Reluctance Machines for Performance Improvement. IEEE Transactions on Energy Conversion, 2018, 33, 1255-1265.	5.2	17
18	Effect of Pole Shaping on Torque Characteristics of Consequent Pole PM Machines. IEEE Transactions on Industry Applications, 2022, 58, 3511-3521.	4.9	17

#	ARTICLE	IF	CITATIONS
19	Analysis of a spherical permanent magnet actuator. Journal of Applied Physics, 1997, 81, 4266-4268.	2.5	16
20	The design and construction of a high temperature linear electromagnetic actuator. Journal of Applied Physics, 1999, 85, 4901-4903.	2.5	14
21	In-process monitoring in electrical machine manufacturing: A review of state of the art and future directions. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 2035-2051.	2.4	14
22	A Novel Asymmetric Interior Permanent Magnet Synchronous Machine. IEEE Transactions on Industry Applications, 2022, 58, 3370-3382.	4.9	14
23	Model Specific Characterization of Soft Magnetic Materials for Core Loss Prediction in Electrical Machines. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	12
24	The design and analysis of axial field multipole impulse magnetizing fixtures. Journal of Applied Physics, 1998, 83, 7112-7114.	2.5	11
25	A Novel Asymmetric Rotor Interior Permanent Magnet Machine With Hybrid-Layer Permanent Magnets. IEEE Transactions on Industry Applications, 2021, 57, 5993-6006.	4.9	10
26	Dynamic modeling of tubular moving-magnet linear actuators. Journal of Applied Physics, 2003, 93, 8787-8789.	2.5	9
27	Full-field pulsed magnetophotoelasticity $\hat{\epsilon}^c$ experimental implementation. Journal of Strain Analysis for Engineering Design, 2006, 41, 171-182.	1.8	9
28	Investigation on Contribution of Inductance Harmonics to Torque Production in Multiphase Doubly Salient Synchronous Reluctance Machines. IEEE Transactions on Magnetics, 2019, 55, 1-10.	2.1	8
29	Suppression of Torque Ripple for Consequent Pole PM Machine by Asymmetric Pole Shaping Method. IEEE Transactions on Industry Applications, 2022, 58, 3545-3557.	4.9	8
30	Quantitative Analysis of Contribution of Air-Gap Field Harmonics to Torque Production in Three-Phase 12-Slot/8-Pole Doubly Salient Synchronous Reluctance Machines. IEEE Transactions on Magnetics, 2018, 54, 1-11.	2.1	6
31	Enhancing the force capability of permanent magnet latching actuators for electromechanical valve actuation systems. Journal of Applied Physics, 2005, 97, 10R501.	2.5	5
32	Full-field pulsed magnetophotoelasticity $\hat{\epsilon}^c$ a description of the instrument. Journal of Strain Analysis for Engineering Design, 2006, 41, 161-170.	1.8	5
33	Finite element modeling of powder aligning and multipole magnetizing systems for anisotropic bonded permanent magnets. Journal of Applied Physics, 1996, 79, 6342.	2.5	4
34	Thermal Modeling of Flooded Rotor Electrical Machines for Electro-Hydrostatic Actuators. , 2007, , .		4
35	High Temperature Permanent Magnet Actuator for Fail-Safe Applications. IEEJ Transactions on Industry Applications, 2008, 128, 1198-1202.	0.2	4
36	Impact of Current Harmonic Injection on Performance of Multi-Phase Synchronous Reluctance Machines. IEEE Transactions on Energy Conversion, 2021, 36, 1649-1659.	5.2	4

#	ARTICLE	IF	CITATIONS
37	Augmented classification for electrical coil winding defects. International Journal of Advanced Manufacturing Technology, 2022, 119, 6949-6965.	3.0	4
38	Comparison of Halbach magnetized brushless motors equipped with air-cored and iron-cored rotors. Journal of Applied Physics, 2003, 93, 8692-8694.	2.5	3
39	Analysis of switching loss of an AC fed direct converter for a switched reluctance machine. , 2008, , .		3
40	Enhanced optimal torque control of fault-tolerant PM machine under flux weakening operation. , 2008, , .		3
41	Analytical Modelling of Dynamic Performance with Harmonic Current Injection for Doubly Salient SynRMs. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	3
42	Influence of Armature Reaction on Magnetic-Field-Shifting Effect in Asymmetric Interior Permanent Magnet Machines. IEEE Transactions on Energy Conversion, 2022, 37, 1475-1488.	5.2	3
43	Analysis of an AC fed direct converter for a switched reluctance machine in aerospace applications. , 2006, , .		2
44	Effects of load conditions on rotor eddy current loss in modular permanent magnet machines. , 2011, , .		2
45	Cogging torque reduction in hybrid-excited axial field flux-switching fault-tolerant machines. , 2017, , .		1
46	Torque Performance Improvement of Doubly Salient Synchronous Reluctance Machines by Current Harmonic Injection. , 2019, , .		1
47	Systematic design study into the influence of rotational speed on the torque density of surface-mounted permanent magnet machines. Journal of Engineering, 2019, 2019, 4595-4600.	1.1	1
48	Losses in Different Doubly Salient Synchronous Reluctance Machines with Current Harmonic Injection. , 2019, , .		1
49	Analytical Prediction of Short-Circuit Current in Fault-Tolerant Permanent Magnet Machines. IEEE Transactions on Industrial Electronics, 2010, , .	7.9	1
50	Performance and operability of an electrically driven propulsor. International Journal of Engine Research, 0, , 146808742110663.	2.3	1
51	Current ripple minimisation in switched reluctance (SR) machines for aerospace applications. , 2006, , .		0
52	Modelling of dynamic machine behavior in peripheral milling operations. , 2017, , .		0
53	Dynamic Performance Investigation of Doubly Salient Synchronous Reluctance Machines with Current Harmonic Injection. , 2019, , .		0