

Howard C Lovatt

List of Publications by Year in descending order

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23
papers

255
citations

1684188

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h-index

2053705

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g-index

24
all docs

24
docs citations

24
times ranked

169
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis and design optimisation of magnetic couplings using 3D finite element modelling. IEEE Transactions on Magnetics, 1997, 33, 4083-4094.	2.1	67
2	Energy stored in permanent magnets. IEEE Transactions on Magnetics, 1999, 35, 505-507.	2.1	43
3	Computer-optimised current waveforms for switched-reluctance motors. IET Electric Power Applications, 1994, 141, 45.	1.4	37
4	Benefits of an FPGA based SRM controller. , 2014, , .		16
5	Analytical Calculation of Maximum Mechanical Stress on the Rotor of Interior Permanent-Magnet Synchronous Machines. IEEE Transactions on Industry Applications, 2020, 56, 1321-1331.	4.9	16
6	A multi-functional converter for a reduced cost, solar powered, water pump. , 2010, , .		10
7	Analytical Calculation of Maximum Mechanical Stress on the Rotor of the Interior Permanent-Magnet Synchronous Machine. , 2018, , .		9
8	Design procedure for low cost, low mass, direct drive, in-wheel motor drivetrains for electric and hybrid vehicles. , 2011, , .		8
9	Self-organising impact boundaries in ageless aerospace vehicles. , 2003, , .		7
10	A New Mechanical-Strength-Oriented Rotor Parametric Model Design for the Optimization of a Very-High-Speed IPMSM. , 2019, , .		6
11	High-performance electric machines for renewable energy generation and efficient drives. Renewable Energy, 2001, 22, 159-167.	8.9	5
12	Experimental verification of core and magnet losses in a concentrated wound IPM machine with V-shaped magnets used in field weakening applications. , 2011, , .		5
13	Performance analysis of a new concentratedwinding interior permanent magnet synchronous machine under Field Oriented Control. , 2014, , .		5
14	Power converter rating for switched reluctance motors. , 2014, , .		5
15	Experimental verification of open circuit parameters of an IPM machine with concentrated windings. , 2011, , .		3
16	High-accuracy iron-loss measurements on motor stator stacks. , 2015, , .		3
17	An FPGA based minimum inductance sensor-less technique for Switched Reluctance Motors. , 2015, , .		3
18	Architectural Proposals for Electric Vehicle Design. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
19	Electric Vehicle Propulsion System Design. , 2012, , 199-206.		2
20	A direct-drive, linear actuator for a heliostat tracking system. , 2017, , .		1
21	SRM mutual inductance sense for improved sensorless control. , 2017, , .		1
22	Non-rotating high-accuracy iron loss measurements on motor stator stacks. , 2017, , .		1
23	Simulation of switched reluctance motor power electronics to determine device ratings. , 2015, , .		0