

Andrew M Knight

List of Publications by Year in descending order

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77
papers

2,507
citations

257450

24
h-index

243625

44
g-index

77
all docs

77
docs citations

77
times ranked

2100
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of power converter topologies for wind generators. Renewable Energy, 2007, 32, 2369-2385.	8.9	489
2	Comparison of the Effects of Continuous and Discontinuous PWM Schemes on Power Losses of Voltage-Sourced Inverters for Induction Motor Drives. IEEE Transactions on Power Electronics, 2011, 26, 182-191.	7.9	202
3	Design and Analysis of Brushless Doubly Fed Reluctance Machines. IEEE Transactions on Industry Applications, 2013, 49, 50-58.	4.9	143
4	Analysis and Design Techniques Applied to Hybrid Vehicle Drive Machines—Assessment of Alternative IPM and Induction Motor Topologies. IEEE Transactions on Industrial Electronics, 2012, 59, 3690-3699.	7.9	137
5	PWM Inverters Using Split-Wound Coupled Inductors. IEEE Transactions on Industry Applications, 2009, 45, 2001-2009.	4.9	112
6	Comparison of different motor design drives for hybrid electric vehicles. , 2010, , .		106
7	Alternative Rotor Designs for High Performance Brushless Permanent Magnet Machines for Hybrid Electric Vehicles. IEEE Transactions on Magnetics, 2012, 48, 835-838.	2.1	100
8	Fuzzy Self-Tuning Speed Control of an Indirect Field-Oriented Control Induction Motor Drive. IEEE Transactions on Industry Applications, 2008, 44, 1732-1740.	4.9	99
9	Single-Phase Multilevel PWM Inverter Topologies Using Coupled Inductors. IEEE Transactions on Power Electronics, 2009, 24, 1259-1266.	7.9	86
10	Performance of a High-Speed Motor Drive System Using a Novel Multilevel Inverter Topology. IEEE Transactions on Industry Applications, 2009, 45, 1706-1714.	4.9	61
11	Risk-Constrained Bidding and Offering Strategy for a Merchant Compressed Air Energy Storage Plant. IEEE Transactions on Power Systems, 2016, , 1-1.	6.5	58
12	Economic assessment of a price-maker energy storage facility in the Alberta electricity market. Energy, 2016, 111, 537-547.	8.8	53
13	Coupled Three-Phase Inductors for Interleaved Inverter Switching. IEEE Transactions on Magnetics, 2008, 44, 4119-4122.	2.1	50
14	Considering Thermodynamic Characteristics of a CAES Facility in Self-Scheduling in Energy and Reserve Markets. IEEE Transactions on Smart Grid, 2018, 9, 3476-3485.	9.0	44
15	A New Space-Vector PWM With Optimal Switching Selection for Multilevel Coupled Inductor Inverters. IEEE Transactions on Industrial Electronics, 2010, 57, 2354-2364.	7.9	42
16	Developing Bidding and Offering Curves of a Price-Maker Energy Storage Facility Based on Robust Optimization. IEEE Transactions on Smart Grid, 2019, 10, 650-660.	9.0	42
17	Improvements in Brushless Doubly Fed Reluctance Generators Using High-Flux-Density Steels and Selection of the Correct Pole Numbers. IEEE Transactions on Magnetics, 2011, 47, 4092-4095.	2.1	40
18	Interleaved Discontinuous Space-Vector PWM for a Multilevel PWM VSI Using a Three-Phase Split-Wound Coupled Inductor. IEEE Transactions on Industry Applications, 2010, 46, 2015-2024.	4.9	38

#	ARTICLE	IF	CITATIONS
19	Identification of Flux Density Harmonics and Resulting Iron Losses in Induction Machines With Nonsinusoidal Supplies. IEEE Transactions on Magnetics, 2008, 44, 1562-1565.	2.1	35
20	Effect of metallurgical factors on the bulk magnetic properties of non-oriented electrical steels. Journal of Magnetism and Magnetic Materials, 2014, 356, 42-51.	2.3	33
21	High-Quality Single-Phase Power Conversion by Reconsidering the Magnetic Components in the Output Stageâ€”Building a Better Half-Bridge. IEEE Transactions on Industry Applications, 2009, 45, 2048-2055.	4.9	32
22	Performance Improvement in High-Performance Brushless Rare-Earth Magnet Motors for Hybrid Vehicles by Use of High Flux-Density Steel. IEEE Transactions on Magnetics, 2011, 47, 3016-3019.	2.1	31
23	Three-Port Bidirectional DC/DC Converter for DC Nanogrids. IEEE Transactions on Power Electronics, 2021, 36, 8000-8011.	7.9	31
24	Brushless doubly-fed reluctance machine rotor design. , 2012, , .		29
25	Effect of crystallographic texture on the bulk magnetic properties of non-oriented electrical steels. Journal of Magnetism and Magnetic Materials, 2014, 365, 14-22.	2.3	28
26	Effects of Annealing on Magnetic Properties of Electrical Steel and Performances of SRM After Punching. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	26
27	Parameter Optimization and Study of Inverse J-A Hysteresis Model. IEEE Transactions on Magnetics, 2013, 49, 1637-1640.	2.1	25
28	Wide speed range operation of PMSM using an open winding and a dual inverter drive with a floating bridge. , 2013, , .		25
29	Design principles for brushless doubly fed reluctance machines. , 2011, , .		22
30	Concentrated Winding IPM Synchronous Motor Design for Wide Field Weakening Applications. IEEE Transactions on Industry Applications, 2017, 53, 1892-1900.	4.9	21
31	Issues with the design of brushless doubly-fed reluctance machines: Unbalanced magnetic pull, skew and iron losses. , 2011, , .		20
32	Smart Grid Connection of an Induction Motor Using a Three-Phase Floating H-bridge System as a Series Compensator. IEEE Transactions on Power Electronics, 2016, 31, 7053-7064.	7.9	20
33	Brushless Doubly Fed Reluctance Machine Testing for Parameter Determination. IEEE Transactions on Industry Applications, 2019, 55, 2611-2619.	4.9	19
34	Design and analysis of Brushless Doubly Fed Reluctance Machines. , 2011, , .		18
35	Influence of Steel Manufacturing on J-A Model Parameters and Magnetic Properties. IEEE Transactions on Magnetics, 2013, 49, 1961-1964.	2.1	12
36	Correlation Between AC Core Loss and Surface Magnetic Barkhausen Noise in Electric Motor Steel. Journal of Nondestructive Evaluation, 2014, 33, 663-669.	2.4	12

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37	Interleaved Discontinuous Space-Vector PWM for a multi-level PWM VSI using a 3-phase split-wound coupled inductor. , 2009, , .		11
38	Design of a permanent magnet synchronous machine for a flywheel energy storage system within a hybrid electric vehicle. , 2009, , .		10
39	Design and torque capability of a ducted rotor brushless doubly fed reluctance machine. IET Electric Power Applications, 2018, 12, 1058-1064.	1.8	10
40	Characterization of a Ducted Rotor Brushless Doubly Fed Reluctance Machine. IEEE Transactions on Energy Conversion, 2019, 34, 79-87.	5.2	10
41	Two converter based operation of a brushless doubly fed reluctance machine. , 2014, , .		9
42	Robust Digital Nonlinear Control System for Dual Active Bridge (DAB) DC/DC Converters With Asymmetric Half-Cycle Modulation. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2020, 1, 123-132.	3.9	9
43	Parallel Time-Stepped Analysis of Induction Machines With Newtonâ€“Raphson Iteration and Domain Decomposition. IEEE Transactions on Magnetics, 2008, 44, 1546-1549.	2.1	8
44	A probabilistic estimation for dynamic thermal rating of transmission lines. , 2016, , .		7
45	Multislice Inter-Bar Model for Large Synchronous Machines With Skewed Stator Slots. IEEE Transactions on Magnetics, 2009, 45, 1800-1803.	2.1	6
46	A simple method to account for PWM eddy current iron losses in finite element analysis. , 2011, , .		6
47	Two-Converter-Based Frequency-Sharing Operation and Control of a Brushless Doubly Fed Reluctance Motor Drive. IEEE Transactions on Industry Applications, 2019, 55, 5873-5880.	4.9	6
48	Variable Frequency Control for Isolated, Nonresonant Single-Stage ACâ€“DC Converter With a Constant DC-Link Voltage. IEEE Transactions on Industrial Electronics, 2022, 69, 6700-6709.	7.9	6
49	Influence of stator slot shape on temperature in surface mounted permanent magnet machines. , 2010, , .		5
50	The effect of modulating ring design on induction machine with integrated magnetic gear torque. , 2017, , .		5
51	Two-Converters-Based Synchronous Operation and Control of a Brushless Doubly Fed Reluctance Machine. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	5
52	Three phase common-mode winding voltage elimination in a three-limb five-level coupled inductor inverter. , 2012, , .		4
53	Improving the Torque Prediction of Saturated Automotive Drive Machines by Accurate Representation of Saturated B/H Curves. IEEE Transactions on Magnetics, 2012, 48, 4630-4633.	2.1	4
54	Investigation of Iron Losses in Mixed Frequency Flux Density Waveforms. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	4

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55	A comparison between fuzzy and probabilistic estimation of Dynamic Thermal Rating of transmission lines. , 2016, , .		4
56	Transmission line length, operating condition and rating regime. , 2016, , .		4
57	Bistable Current-Pulse-Excited Magnetic Reluctance Microvalve Simulation. IEEE Transactions on Magnetics, 2009, 45, 4895-4898.	2.1	3
58	A cage rotor induction generator capable of supplying reactive power. , 2013, , .		3
59	Design and performance assessment for the V shaped magnet IPM synchronous motor. , 2015, , .		3
60	Analysis of a wide speed range open winding IPM with floating bridge. , 2015, , .		3
61	Performance of a high torque density induction motor with an integrated magnetic gear. , 2016, , .		3
62	Dynamic Phasor Finite Element Modeling of Grid-Connected DFIG Considering Winding Space Harmonics. IEEE Access, 2022, 10, 65913-65924.	4.2	3
63	Influence of design parameters on wide speed range concentrated winding PM machines. , 2011, , .		2
64	Comparison of operating modes for a brushless doubly fed reluctance motor drive. , 2017, , .		2
65	Economic Assessment of Energy Storage Systems in Alberta's Energy and Operating Reserve Markets. , 2018, , .		2
66	3D finite element analysis of coupled inductors for multilevel inverter output. , 2010, , .		1
67	Performance and core loss of concentrated winding IPMSM with different core treatment. , 2014, , .		1
68	Concentrated winding IPM synchronous motor design for wide field weakening applications. , 2015, , .		1
69	Operating limits of a Brushless Doubly Fed Reluctance Machine driven by two converters. , 2015, , .		1
70	High torque density induction motor with integrated magnetic gear. , 2016, , .		1
71	Effects of Centralized Battery Storage Placement in Low-Voltage Residential Distribution Networks with High Photovoltaic Penetration. , 2018, , .		1
72	Local power control by LV distributed PV for feeder power factor correction and overvoltage mitigation. , 2020, , .		1

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73	Performance of Ratio-Based Transformer Differential Protection Scheme in the Presence of Resistive Superconductor Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-10.	1.7	1
74	An Enhanced Algorithm for Conventional Protection Devices of Transmission Lines With DTLR. IEEE Access, 2021, 9, 147295-147305.	4.2	1
75	Simple and robust feedback control of a two-switch multi-level half-bridge inverter with non-ideal operation. , 2009, , .		0
76	Investigation on the evolution strategies for slot shape optimization of a permanent magnet synchronous machine. , 2010, , .		0
77	Emulating Subsynchronous Resonance using Hardware and Software Implementation. , 2018, , .		0