

# Andrew M Knight

## List of Publications by Year in descending order

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257357

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docs citations

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times ranked

2100  
citing authors

#	ARTICLE	IF	CITATIONS
1	Variable Frequency Control for Isolated, Nonresonant Single-Stage AC-DC Converter With a Constant DC-Link Voltage. IEEE Transactions on Industrial Electronics, 2022, 69, 6700-6709.	5.2	6
2	Dynamic Phasor Finite Element Modeling of Grid-Connected DFIG Considering Winding Space Harmonics. IEEE Access, 2022, 10, 65913-65924.	2.6	3
3	Three-Port Bidirectional DC/DC Converter for DC Nanogrids. IEEE Transactions on Power Electronics, 2021, 36, 8000-8011.	5.4	31
4	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.	1.1	1
5	An Enhanced Algorithm for Conventional Protection Devices of Transmission Lines With DTLR. IEEE Access, 2021, 9, 147295-147305.	2.6	1
6	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.	3.0	9
7	Local power control by LV distributed PV for feeder power factor correction and overvoltage mitigation. , 2020, , .		1
8	Characterization of a Ducted Rotor Brushless Doubly Fed Reluctance Machine. IEEE Transactions on Energy Conversion, 2019, 34, 79-87.	3.7	10
9	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.	3.3	6
10	Brushless Doubly Fed Reluctance Machine Testing for Parameter Determination. IEEE Transactions on Industry Applications, 2019, 55, 2611-2619.	3.3	19
11	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.	6.2	42
12	Considering Thermodynamic Characteristics of a CAES Facility in Self-Scheduling in Energy and Reserve Markets. IEEE Transactions on Smart Grid, 2018, 9, 3476-3485.	6.2	44
13	Emulating Subsynchronous Resonance using Hardware and Software Implementation. , 2018, , .		0
14	Design and torque capability of a ducted rotor brushless doubly fed reluctance machine. IET Electric Power Applications, 2018, 12, 1058-1064.	1.1	10
15	Effects of Centralized Battery Storage Placement in Low-Voltage Residential Distribution Networks with High Photovoltaic Penetration. , 2018, , .		1
16	Economic Assessment of Energy Storage Systems in Alberta's Energy and Operating Reserve Markets. , 2018, , .		2
17	Two-Converters-Based Synchronous Operation and Control of a Brushless Doubly Fed Reluctance Machine. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	5
18	Concentrated Winding IPM Synchronous Motor Design for Wide Field Weakening Applications. IEEE Transactions on Industry Applications, 2017, 53, 1892-1900.	3.3	21

#	ARTICLE	IF	CITATIONS
19	Comparison of operating modes for a brushless doubly fed reluctance motor drive. , 2017, , .		2
20	The effect of modulating ring design on induction machine with integrated magnetic gear torque. , 2017, , .		5
21	High torque density induction motor with integrated magnetic gear. , 2016, , .		1
22	A comparison between fuzzy and probabilistic estimation of Dynamic Thermal Rating of transmission lines. , 2016, , .		4
23	Risk-Constrained Bidding and Offering Strategy for a Merchant Compressed Air Energy Storage Plant. IEEE Transactions on Power Systems, 2016, , 1-1.	4.6	58
24	Performance of a high torque density induction motor with an integrated magnetic gear. , 2016, , .		3
25	Transmission line length, operating condition and rating regime. , 2016, , .		4
26	A probabilistic estimation for dynamic thermal rating of transmission lines. , 2016, , .		7
27	Economic assessment of a price-maker energy storage facility in the Alberta electricity market. Energy, 2016, 111, 537-547.	4.5	53
28	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.	5.4	20
29	Design and performance assessment for the V shaped magnet IPM synchronous motor. , 2015, , .		3
30	Concentrated winding IPM synchronous motor design for wide field weakening applications. , 2015, , .		1
31	Analysis of a wide speed range open winding IPM with floating bridge. , 2015, , .		3
32	Operating limits of a Brushless Doubly Fed Reluctance Machine driven by two converters. , 2015, , .		1
33	Two converter based operation of a brushless doubly fed reluctance machine. , 2014, , .		9
34	Performance and core loss of concentrated winding IPMSM with different core treatment. , 2014, , .		1
35	Investigation of Iron Losses in Mixed Frequency Flux Density Waveforms. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	4
36	Correlation Between AC Core Loss and Surface Magnetic Barkhausen Noise in Electric Motor Steel. Journal of Nondestructive Evaluation, 2014, 33, 663-669.	1.1	12

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37	Effects of Annealing on Magnetic Properties of Electrical Steel and Performances of SRM After Punching. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	26
38	Effect of crystallographic texture on the bulk magnetic properties of non-oriented electrical steels. Journal of Magnetism and Magnetic Materials, 2014, 365, 14-22.	1.0	28
39	Effect of metallurgical factors on the bulk magnetic properties of non-oriented electrical steels. Journal of Magnetism and Magnetic Materials, 2014, 356, 42-51.	1.0	33
40	Parameter Optimization and Study of Inverse J-A Hysteresis Model. IEEE Transactions on Magnetics, 2013, 49, 1637-1640.	1.2	25
41	Influence of Steel Manufacturing on J-A Model Parameters and Magnetic Properties. IEEE Transactions on Magnetics, 2013, 49, 1961-1964.	1.2	12
42	A cage rotor induction generator capable of supplying reactive power. , 2013, , .		3
43	Design and Analysis of Brushless Doubly Fed Reluctance Machines. IEEE Transactions on Industry Applications, 2013, 49, 50-58.	3.3	143
44	Wide speed range operation of PMSM using an open winding and a dual inverter drive with a floating bridge. , 2013, , .		25
45	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.	5.2	137
46	Brushless doubly-fed reluctance machine rotor design. , 2012, , .		29
47	Three phase common-mode winding voltage elimination in a three-limb five-level coupled inductor inverter. , 2012, , .		4
48	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.	1.2	4
49	Alternative Rotor Designs for High Performance Brushless Permanent Magnet Machines for Hybrid Electric Vehicles. IEEE Transactions on Magnetics, 2012, 48, 835-838.	1.2	100
50	A simple method to account for PWM eddy current iron losses in finite element analysis. , 2011, , .		6
51	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.	5.4	202
52	Design and analysis of Brushless Doubly Fed Reluctance Machines. , 2011, , .		18
53	Design principles for brushless doubly fed reluctance machines. , 2011, , .		22
54	Issues with the design of brushless doubly-fed reluctance machines: Unbalanced magnetic pull, skew and iron losses. , 2011, , .		20

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55	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.	1.2	31
56	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.	1.2	40
57	Influence of design parameters on wide speed range concentrated winding PM machines. , 2011, , .		2
58	A New Space-Vector PWM With Optimal Switching Selection for Multilevel Coupled Inductor Inverters. IEEE Transactions on Industrial Electronics, 2010, 57, 2354-2364.	5.2	42
59	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.	3.3	38
60	3D finite element analysis of coupled inductors for multilevel inverter output. , 2010, , .		1
61	Investigation on the evolution strategies for slot shape optimization of a permanent magnet synchronous machine. , 2010, , .		0
62	Comparison of different motor design drives for hybrid electric vehicles. , 2010, , .		106
63	Influence of stator slot shape on temperature in surface mounted permanent magnet machines. , 2010, , .		5
64	Simple and robust feedback control of a two-switch multi-level half-bridge inverter with non-ideal operation. , 2009, , .		0
65	Multislice Inter-Bar Model for Large Synchronous Machines With Skewed Stator Slots. IEEE Transactions on Magnetics, 2009, 45, 1800-1803.	1.2	6
66	Bistable Current-Pulse-Excited Magnetic Reluctance Microvalve Simulation. IEEE Transactions on Magnetics, 2009, 45, 4895-4898.	1.2	3
67	High-Quality Single-Phase Power Conversion by Reconsidering the Magnetic Components in the Output Stage—Building a Better Half-Bridge. IEEE Transactions on Industry Applications, 2009, 45, 2048-2055.	3.3	32
68	Performance of a High-Speed Motor Drive System Using a Novel Multilevel Inverter Topology. IEEE Transactions on Industry Applications, 2009, 45, 1706-1714.	3.3	61
69	Single-Phase Multilevel PWM Inverter Topologies Using Coupled Inductors. IEEE Transactions on Power Electronics, 2009, 24, 1259-1266.	5.4	86
70	Interleaved Discontinuous Space-Vector PWM for a multi-level PWM VSI using a 3-phase split-wound coupled inductor. , 2009, , .		11
71	Design of a permanent magnet synchronous machine for a flywheel energy storage system within a hybrid electric vehicle. , 2009, , .		10
72	PWM Inverters Using Split-Wound Coupled Inductors. IEEE Transactions on Industry Applications, 2009, 45, 2001-2009.	3.3	112

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73	Identification of Flux Density Harmonics and Resulting Iron Losses in Induction Machines With Nonsinusoidal Supplies. IEEE Transactions on Magnetics, 2008, 44, 1562-1565.	1.2	35
74	Parallel Time-Stepped Analysis of Induction Machines With Newton-Raphson Iteration and Domain Decomposition. IEEE Transactions on Magnetics, 2008, 44, 1546-1549.	1.2	8
75	Coupled Three-Phase Inductors for Interleaved Inverter Switching. IEEE Transactions on Magnetics, 2008, 44, 4119-4122.	1.2	50
76	Fuzzy Self-Tuning Speed Control of an Indirect Field-Oriented Control Induction Motor Drive. IEEE Transactions on Industry Applications, 2008, 44, 1732-1740.	3.3	99
77	A review of power converter topologies for wind generators. Renewable Energy, 2007, 32, 2369-2385.	4.3	489