

Kt Chau

List of Publications by Year in descending order

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54
papers

5,614
citations

101543

36
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233421

45
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56
all docs

56
docs citations

56
times ranked

3051
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of Permanent-Magnet Brushless Drives for Electric and Hybrid Electric Vehicles. IEEE Transactions on Industrial Electronics, 2008, 55, 2246-2257.	7.9	1,186
2	Overview of power management in hybrid electric vehicles. Energy Conversion and Management, 2002, 43, 1953-1968.	9.2	367
3	An overview of power electronics in electric vehicles. IEEE Transactions on Industrial Electronics, 1997, 44, 3-13.	7.9	353
4	Thermoelectric automotive waste heat energy recovery using maximum power point tracking. Energy Conversion and Management, 2009, 50, 1506-1512.	9.2	292
5	An overview of energy sources for electric vehicles. Energy Conversion and Management, 1999, 40, 1021-1039.	9.2	204
6	Design and analysis of a new doubly salient permanent magnet motor. IEEE Transactions on Magnetics, 2001, 37, 3012-3020.	2.1	185
7	Overview of batteries and battery management for electric vehicles. Energy Reports, 2022, 8, 4058-4084.	5.1	184
8	An Efficient Wind-Photovoltaic Hybrid Generation System Using Doubly Excited Permanent-Magnet Brushless Machine. IEEE Transactions on Industrial Electronics, 2010, 57, 831-839.	7.9	160
9	Comparison of Coaxial Magnetic Gears With Different Topologies. IEEE Transactions on Magnetics, 2009, 45, 4526-4529.	2.1	157
10	Novel permanent magnet motor drives for electric vehicles. IEEE Transactions on Industrial Electronics, 1996, 43, 331-339.	7.9	149
11	Nonlinear varying-network magnetic circuit analysis for doubly salient permanent-magnet motors. IEEE Transactions on Magnetics, 2000, 36, 339-348.	2.1	149
12	Acoustic noise radiated by PWM-controlled induction machine drives. IEEE Transactions on Industrial Electronics, 2000, 47, 880-889.	7.9	140
13	Static characteristics of a new doubly salient permanent magnet motor. IEEE Transactions on Energy Conversion, 2001, 16, 20-25.	5.2	136
14	A new three-phase doubly salient permanent magnet machine for wind power generation. IEEE Transactions on Industry Applications, 2006, 42, 53-60.	4.9	126
15	Torque Ripple Minimization of Doubly Salient Permanent-Magnet Motors. IEEE Transactions on Energy Conversion, 2005, 20, 352-358.	5.2	109
16	A new battery available capacity indicator for electric vehicles using neural network. Energy Conversion and Management, 2002, 43, 817-826.	9.2	106
17	Development of a New Brushless Doubly Fed Doubly Salient Machine for Wind Power Generation. IEEE Transactions on Magnetics, 2006, 42, 3455-3457.	2.1	106
18	Adaptive neuro-fuzzy modeling of battery residual capacity for electric vehicles. IEEE Transactions on Industrial Electronics, 2002, 49, 677-684.	7.9	99

#	ARTICLE	IF	CITATIONS
19	Hybridization of energy sources in electric vehicles. Energy Conversion and Management, 2001, 42, 1059-1069.	9.2	92
20	Nonlinear magnetic circuit analysis for a novel stator doubly fed doubly salient machine. IEEE Transactions on Magnetics, 2002, 38, 2382-2384.	2.1	92
21	An automotive thermoelectric-photovoltaic hybrid energy system using maximum power point tracking. Energy Conversion and Management, 2011, 52, 641-647.	9.2	91
22	A novel stator doubly fed doubly salient permanent magnet brushless machine. IEEE Transactions on Magnetics, 2003, 39, 3001-3003.	2.1	73
23	Neural Network-Based Residual Capacity Indicator for Nickel-Metal Hydride Batteries in Electric Vehicles. IEEE Transactions on Vehicular Technology, 2005, 54, 1705-1712.	6.3	70
24	A new battery capacity indicator for lithium-ion battery powered electric vehicles using adaptive neuro-fuzzy inference system. Energy Conversion and Management, 2004, 45, 1681-1692.	9.2	69
25	Spectral analysis of a new six-phase pole-changing induction motor drive for electric vehicles. IEEE Transactions on Industrial Electronics, 2003, 50, 123-131.	7.9	67
26	A novel sliding-mode observer for indirect position sensing of switched reluctance motor drives. IEEE Transactions on Industrial Electronics, 1999, 46, 390-397.	7.9	65
27	Design of high-torque-density double-stator permanent magnet brushless motors. IET Electric Power Applications, 2011, 5, 317.	1.8	65
28	Hopf Bifurcation and Chaos in Synchronous Reluctance Motor Drives. IEEE Transactions on Energy Conversion, 2004, 19, 296-302.	5.2	64
29	Design and Control of a PM Brushless Hybrid Generator for Wind Power Application. IEEE Transactions on Magnetics, 2006, 42, 3497-3499.	2.1	63
30	An advanced permanent magnet motor drive system for battery-powered electric vehicles. IEEE Transactions on Vehicular Technology, 1996, 45, 180-188.	6.3	60
31	Design of Doubly Salient Permanent Magnet Motors With Minimum Torque Ripple. IEEE Transactions on Magnetics, 2009, 45, 4704-4707.	2.1	60
32	Analytical Calculation of Magnetic Field in Surface-Inset Permanent Magnet Motors. IEEE Transactions on Magnetics, 2009, 45, 4688-4691.	2.1	57
33	Design and Analysis of a Stator-Doubly-Fed Doubly-Salient Permanent-Magnet Machine for Automotive Engines. IEEE Transactions on Magnetics, 2006, 42, 3470-3472.	2.1	52
34	Control and operation of fault-tolerant flux-switching permanent-magnet motor drive with second harmonic current injection. IET Electric Power Applications, 2012, 6, 707.	1.8	44
35	Analysis of Doubly Salient Memory Motors Using Preisach Theory. IEEE Transactions on Magnetics, 2009, 45, 4676-4679.	2.1	42
36	Estimation of battery available capacity under variable discharge currents. Journal of Power Sources, 2002, 103, 180-187.	7.8	39

#	ARTICLE	IF	CITATIONS
37	A new DC micro-grid system using renewable energy and electric vehicles for smart energy delivery. , 2010, , .		35
38	A new battery capacity indicator for nickel-metal hydride battery powered electric vehicles using adaptive neuro-fuzzy inference system. Energy Conversion and Management, 2003, 44, 2059-2071.	9.2	32
39	New split-winding doubly salient permanent magnet motor drive. IEEE Transactions on Aerospace and Electronic Systems, 2003, 39, 202-210.	4.7	31
40	New fault-tolerant flux-mnemonic doubly-salient permanent-magnet motor drive. IET Electric Power Applications, 2011, 5, 393.	1.8	26
41	Pure electric vehicles. , 2014, , 655-684.		22
42	Design and analysis of a new multiphase polygonal-winding permanent-magnet brushless DC machine. IEEE Transactions on Magnetics, 2002, 38, 3258-3260.	2.1	18
43	A new linear magnetic gear with adjustable gear ratios and its application for direct-drive wave energy extraction. Renewable Energy, 2017, 105, 199-208.	8.9	14
44	Design of Permanent Magnets to Avoid Chaos in Doubly Salient PM Machines. IEEE Transactions on Magnetics, 2004, 40, 3048-3050.	2.1	13
45	A double-stator permanent magnet brushless machine system for electric variable transmission in hybrid electric vehicles. , 2010, , .		10
46	Overview of Electric Vehicle Machines - From Tesla to Tesla, and Beyond. , 2016, , .		10
47	A new doubly salient permanent magnet motor. , 0, , .		7
48	Simulation of a linear permanent magnet vernier machine for direct-drive wave power generation. , 2011, , .		6
49	Genetic Algorithm Based Cost-emission Optimization of Unit Commitment Integrating with Gridable Vehicles. Journal of Asian Electric Vehicles, 2012, 10, 1567-1573.	0.4	6
50	Optimal design and implementation of a permanent magnet linear vernier machine for direct-drive wave energy extraction. , 2012, , .		4
51	Cost-Emission Analysis of Vehicle-to-Grid System. World Electric Vehicle Journal, 2010, 4, 767-773.	3.0	2
52	Development of a Smart DC Micro-Grid for Plug-in Electric Vehicle Charging and Discharging. World Electric Vehicle Journal, 2010, 4, 939-942.	3.0	2
53	Complex-conjugate control of a linear magnetic-gear permanent-magnet machine for Archimedes wave swing based power generation. , 2015, , .		2
54	Wave power generation and its feasibility in Hong Kong. , 2009, , .		0