

Kt Chau

List of Publications by Year in descending order

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54
papers

5,614
citations

101543

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233421

45
g-index

56
all docs

56
docs citations

56
times ranked

3051
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of batteries and battery management for electric vehicles. Energy Reports, 2022, 8, 4058-4084.	5.1	184
2	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
3	Overview of Electric Vehicle Machines - From Tesla to Tesla, and Beyond. , 2016, , .		10
4	Complex-conjugate control of a linear magnetic-g geared permanent-magnet machine for Archimedes wave swing based power generation. , 2015, , .		2
5	Pure electric vehicles. , 2014, , 655-684.		22
6	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
7	Optimal design and implementation of a permanent magnet linear vernier machine for direct-drive wave energy extraction. , 2012, , .		4
8	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
9	Simulation of a linear permanent magnet vernier machine for direct-drive wave power generation. , 2011, , .		6
10	New fault-tolerant flux-mnemonic doubly-salient permanent-magnet motor drive. IET Electric Power Applications, 2011, 5, 393.	1.8	26
11	Design of high-torque-density double-stator permanent magnet brushless motors. IET Electric Power Applications, 2011, 5, 317.	1.8	65
12	An automotive thermoelectricâ€“photovoltaic hybrid energy system using maximum power point tracking. Energy Conversion and Management, 2011, 52, 641-647.	9.2	91
13	Cost-Emission Analysis of Vehicle-to-Grid System. World Electric Vehicle Journal, 2010, 4, 767-773.	3.0	2
14	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
15	A new DC micro-grid system using renewable energy and electric vehicles for smart energy delivery. , 2010, , .		35
16	An Efficient Windâ€“Photovoltaic Hybrid Generation System Using Doubly Excited Permanent-Magnet Brushless Machine. IEEE Transactions on Industrial Electronics, 2010, 57, 831-839.	7.9	160
17	A double-stator permanent magnet brushless machine system for electric variable transmission in hybrid electric vehicles. , 2010, , .		10
18	Wave power generation and its feasibility in Hong Kong. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
19	Analysis of Doubly Salient Memory Motors Using Preisach Theory. IEEE Transactions on Magnetics, 2009, 45, 4676-4679.	2.1	42
20	Comparison of Coaxial Magnetic Gears With Different Topologies. IEEE Transactions on Magnetics, 2009, 45, 4526-4529.	2.1	157
21	Design of Doubly Salient Permanent Magnet Motors With Minimum Torque Ripple. IEEE Transactions on Magnetics, 2009, 45, 4704-4707.	2.1	60
22	Analytical Calculation of Magnetic Field in Surface-Inset Permanent Magnet Motors. IEEE Transactions on Magnetics, 2009, 45, 4688-4691.	2.1	57
23	Thermoelectric automotive waste heat energy recovery using maximum power point tracking. Energy Conversion and Management, 2009, 50, 1506-1512.	9.2	292
24	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
25	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
26	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
27	Design and Control of a PM Brushless Hybrid Generator for Wind Power Application. IEEE Transactions on Magnetics, 2006, 42, 3497-3499.	2.1	63
28	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
29	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
30	Torque Ripple Minimization of Doubly Salient Permanent-Magnet Motors. IEEE Transactions on Energy Conversion, 2005, 20, 352-358.	5.2	109
31	Design of Permanent Magnets to Avoid Chaos in Doubly Salient PM Machines. IEEE Transactions on Magnetics, 2004, 40, 3048-3050.	2.1	13
32	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
33	Hopf Bifurcation and Chaos in Synchronous Reluctance Motor Drives. IEEE Transactions on Energy Conversion, 2004, 19, 296-302.	5.2	64
34	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
35	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
36	New split-winding doubly salient permanent magnet motor drive. IEEE Transactions on Aerospace and Electronic Systems, 2003, 39, 202-210.	4.7	31

#	ARTICLE	IF	CITATIONS
37	A novel stator doubly fed doubly salient permanent magnet brushless machine. IEEE Transactions on Magnetics, 2003, 39, 3001-3003.	2.1	73
38	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
39	Nonlinear magnetic circuit analysis for a novel stator doubly fed doubly salient machine. IEEE Transactions on Magnetics, 2002, 38, 2382-2384.	2.1	92
40	Adaptive neuro-fuzzy modeling of battery residual capacity for electric vehicles. IEEE Transactions on Industrial Electronics, 2002, 49, 677-684.	7.9	99
41	A new battery available capacity indicator for electric vehicles using neural network. Energy Conversion and Management, 2002, 43, 817-826.	9.2	106
42	Overview of power management in hybrid electric vehicles. Energy Conversion and Management, 2002, 43, 1953-1968.	9.2	367
43	Estimation of battery available capacity under variable discharge currents. Journal of Power Sources, 2002, 103, 180-187.	7.8	39
44	Design and analysis of a new doubly salient permanent magnet motor. IEEE Transactions on Magnetics, 2001, 37, 3012-3020.	2.1	185
45	Static characteristics of a new doubly salient permanent magnet motor. IEEE Transactions on Energy Conversion, 2001, 16, 20-25.	5.2	136
46	Hybridization of energy sources in electric vehicles. Energy Conversion and Management, 2001, 42, 1059-1069.	9.2	92
47	Acoustic noise radiated by PWM-controlled induction machine drives. IEEE Transactions on Industrial Electronics, 2000, 47, 880-889.	7.9	140
48	Nonlinear varying-network magnetic circuit analysis for doubly salient permanent-magnet motors. IEEE Transactions on Magnetics, 2000, 36, 339-348.	2.1	149
49	An overview of energy sources for electric vehicles. Energy Conversion and Management, 1999, 40, 1021-1039.	9.2	204
50	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
51	An overview of power electronics in electric vehicles. IEEE Transactions on Industrial Electronics, 1997, 44, 3-13.	7.9	353
52	Novel permanent magnet motor drives for electric vehicles. IEEE Transactions on Industrial Electronics, 1996, 43, 331-339.	7.9	149
53	An advanced permanent magnet motor drive system for battery-powered electric vehicles. IEEE Transactions on Vehicular Technology, 1996, 45, 180-188.	6.3	60
54	A new doubly salient permanent magnet motor. , 0, , .		7