

Kt Chau

List of Publications by Year in descending order

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54
papers

5,614
citations

101496

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45
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56
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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.	5.2	1,186
2	Overview of power management in hybrid electric vehicles. Energy Conversion and Management, 2002, 43, 1953-1968.	4.4	367
3	An overview of power electronics in electric vehicles. IEEE Transactions on Industrial Electronics, 1997, 44, 3-13.	5.2	353
4	Thermoelectric automotive waste heat energy recovery using maximum power point tracking. Energy Conversion and Management, 2009, 50, 1506-1512.	4.4	292
5	An overview of energy sources for electric vehicles. Energy Conversion and Management, 1999, 40, 1021-1039.	4.4	204
6	Design and analysis of a new doubly salient permanent magnet motor. IEEE Transactions on Magnetics, 2001, 37, 3012-3020.	1.2	185
7	Overview of batteries and battery management for electric vehicles. Energy Reports, 2022, 8, 4058-4084.	2.5	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.	5.2	160
9	Comparison of Coaxial Magnetic Gears With Different Topologies. IEEE Transactions on Magnetics, 2009, 45, 4526-4529.	1.2	157
10	Novel permanent magnet motor drives for electric vehicles. IEEE Transactions on Industrial Electronics, 1996, 43, 331-339.	5.2	149
11	Nonlinear varying-network magnetic circuit analysis for doubly salient permanent-magnet motors. IEEE Transactions on Magnetics, 2000, 36, 339-348.	1.2	149
12	Acoustic noise radiated by PWM-controlled induction machine drives. IEEE Transactions on Industrial Electronics, 2000, 47, 880-889.	5.2	140
13	Static characteristics of a new doubly salient permanent magnet motor. IEEE Transactions on Energy Conversion, 2001, 16, 20-25.	3.7	136
14	A new three-phase doubly salient permanent magnet machine for wind power generation. IEEE Transactions on Industry Applications, 2006, 42, 53-60.	3.3	126
15	Torque Ripple Minimization of Doubly Salient Permanent-Magnet Motors. IEEE Transactions on Energy Conversion, 2005, 20, 352-358.	3.7	109
16	A new battery available capacity indicator for electric vehicles using neural network. Energy Conversion and Management, 2002, 43, 817-826.	4.4	106
17	Development of a New Brushless Doubly Fed Doubly Salient Machine for Wind Power Generation. IEEE Transactions on Magnetics, 2006, 42, 3455-3457.	1.2	106
18	Adaptive neuro-fuzzy modeling of battery residual capacity for electric vehicles. IEEE Transactions on Industrial Electronics, 2002, 49, 677-684.	5.2	99

#	ARTICLE	IF	CITATIONS
19	Hybridization of energy sources in electric vehicles. <i>Energy Conversion and Management</i> , 2001, 42, 1059-1069.	4.4	92
20	Nonlinear magnetic circuit analysis for a novel stator doubly fed doubly salient machine. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 2382-2384.	1.2	92
21	An automotive thermoelectric-photovoltaic hybrid energy system using maximum power point tracking. <i>Energy Conversion and Management</i> , 2011, 52, 641-647.	4.4	91
22	A novel stator doubly fed doubly salient permanent magnet brushless machine. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 3001-3003.	1.2	73
23	Neural Network-Based Residual Capacity Indicator for Nickel-Metal Hydride Batteries in Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2005, 54, 1705-1712.	3.9	70
24	A new battery capacity indicator for lithium-ion battery powered electric vehicles using adaptive neuro-fuzzy inference system. <i>Energy Conversion and Management</i> , 2004, 45, 1681-1692.	4.4	69
25	Spectral analysis of a new six-phase pole-changing induction motor drive for electric vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2003, 50, 123-131.	5.2	67
26	A novel sliding-mode observer for indirect position sensing of switched reluctance motor drives. <i>IEEE Transactions on Industrial Electronics</i> , 1999, 46, 390-397.	5.2	65
27	Design of high-torque-density double-stator permanent magnet brushless motors. <i>IET Electric Power Applications</i> , 2011, 5, 317.	1.1	65
28	Hopf Bifurcation and Chaos in Synchronous Reluctance Motor Drives. <i>IEEE Transactions on Energy Conversion</i> , 2004, 19, 296-302.	3.7	64
29	Design and Control of a PM Brushless Hybrid Generator for Wind Power Application. <i>IEEE Transactions on Magnetics</i> , 2006, 42, 3497-3499.	1.2	63
30	An advanced permanent magnet motor drive system for battery-powered electric vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 1996, 45, 180-188.	3.9	60
31	Design of Doubly Salient Permanent Magnet Motors With Minimum Torque Ripple. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 4704-4707.	1.2	60
32	Analytical Calculation of Magnetic Field in Surface-Inset Permanent Magnet Motors. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 4688-4691.	1.2	57
33	Design and Analysis of a Stator-Doubly-Fed Doubly-Salient Permanent-Magnet Machine for Automotive Engines. <i>IEEE Transactions on Magnetics</i> , 2006, 42, 3470-3472.	1.2	52
34	Control and operation of fault-tolerant flux-switching permanent-magnet motor drive with second harmonic current injection. <i>IET Electric Power Applications</i> , 2012, 6, 707.	1.1	44
35	Analysis of Doubly Salient Memory Motors Using Preisach Theory. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 4676-4679.	1.2	42
36	Estimation of battery available capacity under variable discharge currents. <i>Journal of Power Sources</i> , 2002, 103, 180-187.	4.0	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.	4.4	32
39	New split-winding doubly salient permanent magnet motor drive. IEEE Transactions on Aerospace and Electronic Systems, 2003, 39, 202-210.	2.6	31
40	New fault-tolerant flux-mnemonic doubly-salient permanent-magnet motor drive. IET Electric Power Applications, 2011, 5, 393.	1.1	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.	1.2	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.	4.3	14
44	Design of Permanent Magnets to Avoid Chaos in Doubly Salient PM Machines. IEEE Transactions on Magnetics, 2004, 40, 3048-3050.	1.2	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.	1.6	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.	1.6	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