

Mehrdad Ehsani

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,208
citations

687363

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24
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48
all docs

48
docs citations

48
times ranked

1126
citing authors

#	ARTICLE	IF	CITATIONS
1	Detailed Model of the Grid-Connected Cascaded Doubly Fed Induction Machine. IEEE Transactions on Industry Applications, 2022, 58, 3414-3423.	4.9	0
2	An Adaptable Net Zero Model: Energy Analysis of a Monitored Case Study. Energies, 2022, 15, 4016.	3.1	2
3	Efficient Flywheel-Based All-Wheel-Drive Electric Powertrain. IEEE Transactions on Industrial Electronics, 2021, 68, 5661-5671.	7.9	8
4	High-Performance 4WD Electric Powertrain With Flywheel Kinetic Energy Recovery. IEEE Transactions on Power Electronics, 2021, 36, 772-784.	7.9	22
5	Hybrid Energy Storage Systems for Vehicle Applications. , 2021, , 275-292.		0
6	Brushless Doubly-Fed Induction Machine with Feed-Forward Torque Compensation Control. , 2021, , .		3
7	A Precise Analytical Model of the Grid Connected Cascaded Doubly Fed Induction Machine. , 2021, , .		2
8	Net Zero Energy Buildings: Variations, Clarifications, and Requirements in Response to the Paris Agreement. Energies, 2021, 14, 3760.	3.1	21
9	Electric and Hybrid Vehicles. Proceedings of the IEEE, 2021, 109, 962-966.	21.3	6
10	State of the Art and Trends in Electric and Hybrid Electric Vehicles. Proceedings of the IEEE, 2021, 109, 967-984.	21.3	143
11	Impact of Different Photovoltaic Models on the Design of a Combined Solar Array and Pumped Hydro Storage System. Applied Sciences (Switzerland), 2020, 10, 3650.	2.5	22
12	Transmotor-Based Powertrain for High-Performance Electric Vehicle. IEEE Transactions on Transportation Electrification, 2020, 6, 1199-1210.	7.8	9
13	Impact of Mixed Switching Frequency Scheme on Different Topologies of Multilevel Converters for Efficiency Improvement. , 2020, , .		0
14	Fault-Tolerant Control of PMSM With Inter-Turn Short-Circuit Fault. IEEE Transactions on Energy Conversion, 2019, 34, 2267-2275.	5.2	39
15	Feasibility Study of Sustainable Energy Sources in a Fossil Fuel Rich Country. IEEE Transactions on Industry Applications, 2019, 55, 4433-4440.	4.9	10
16	A Review of the More Electric Aircraft Power Electronics. , 2019, , .		39
17	Optimal Coordination of Wind Power and Pumped Hydro Energy Storage. Energies, 2019, 12, 4387.	3.1	15
18	Development of a Kinetic Energy Recovery System Using an Active Electromagnetic Slip Coupling. IEEE Transactions on Transportation Electrification, 2019, 5, 456-464.	7.8	10

#	ARTICLE	IF	CITATIONS
19	Electro-Mechanical EV Powertrain With Reduced Volt-Ampere Rating. IEEE Transactions on Vehicular Technology, 2019, 68, 224-233.	6.3	13
20	Integration of Renewable Energy Sources by Load Shifting and Utilizing Value Storage. IEEE Transactions on Smart Grid, 2019, 10, 4974-4984.	9.0	42
21	On-line diagnosis of inter-turn short circuit fault for DC brushed motor. ISA Transactions, 2018, 77, 179-187.	5.7	9
22	Optimization and layout of a wind farm connected to a power distribution system. , 2018, , .		3
23	Accurate Wind Turbine Annual Energy Computation by Advanced Modeling. IEEE Transactions on Industry Applications, 2017, 53, 1761-1768.	4.9	14
24	High step-up Z-source DC-DC converter with flyback and voltage multiplier. , 2017, , .		11
25	Socioeconomically sustainable rural microgrid engineering design. , 2017, , .		3
26	Cost analysis of an improved Z-source-based power processing system for photo-voltaic applications. , 2017, , .		3
27	On-line fault diagnosis of electric machine based on the Hidden Markov Model. , 2016, , .		0
28	Feasibility Investigation of a Hybrid On-Grid Wind Photovoltaic Retrofitting System. IEEE Transactions on Industry Applications, 2016, 52, 1979-1988.	4.9	67
29	Feasibility investigation of a hybrid on-grid wind photovoltaic retrofitting system. , 2015, , .		13
30	Design study of parallel HEV drive train with full size engine. , 2013, , .		5
31	Optimal Control Method of Magnetic Switch Used in High-Voltage Power Supply. IEEE Transactions on Power Electronics, 2013, 28, 1065-1071.	7.9	13
32	Fast closedâ€œform solution of lineâ€œtoâ€œline voltage total harmonic distortion for threeâ€œlevel inverters. IET Power Electronics, 2013, 6, 581-591.	2.1	8
33	Dynamic Programming Optimized Constrained Engine on and off Control Strategy for Parallel HEV. , 2013, , .		10
34	Demand side management by using electric vehicles as Distributed Energy Resources. , 2012, , .		23
35	An education program for transportation electrification. , 2010, , .		3
36	Reconstruction of effective wind speed for fixed-speed wind turbines based on frequency data fusion. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
37	Generalized Gyator Theory. IEEE Transactions on Power Electronics, 2010, 25, 1832-1837.	7.9	32
38	Design and control of a ultracapacitor boosted hybrid fuel cell vehicle. , 2009, , .		12
39	Design and control methodology of plug-in hybrid electric vehicles. , 2008, , .		61
40	Hybrid Electric Vehicles: Architecture and Motor Drives. Proceedings of the IEEE, 2007, 95, 719-728.	21.8	370
41	Hybridized Electric Energy Storage Systems for Hybrid Electric Vehicles. , 2006, , .		17
42	Optimal Power and Torque Control of a Brushless DC (BLDC) Motor/Generator Drive in Electric and Hybrid Electric Vehicles. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	19
43	State of the art and future trends in position sensorless brushless DC motor/generator drives. , 2005, , .		17
44	Advanced Simulation Model for Brushless DC Motor Drives. Electric Power Components and Systems, 2003, 31, 841-868.	1.8	82
45	Switched-mode converters for high-power DC-DC applications. International Journal of Electronics, 1994, 77, 583-599.	1.4	0
46	Microcomputer Control of a Current Source DC-DC Converter. IEEE Transactions on Industry Applications, 1983, IA-19, 690-698.	4.9	4
47	High Performance Brushless Permanent Magnet Motor/Generator Drives in Electric and Hybrid Electric Vehicles. , 0, , .		3