

# Mehrdad Ehsani

## List of Publications by Year in descending order

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47  
papers

1,208  
citations

687363

13  
h-index

610901

24  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1126  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Electric Vehicles: Architecture and Motor Drives. Proceedings of the IEEE, 2007, 95, 719-728.	21.3	370
2	State of the Art and Trends in Electric and Hybrid Electric Vehicles. Proceedings of the IEEE, 2021, 109, 967-984.	21.3	143
3	Advanced Simulation Model for Brushless DC Motor Drives. Electric Power Components and Systems, 2003, 31, 841-868.	1.8	82
4	Feasibility Investigation of a Hybrid On-Grid Wind Photovoltaic Retrofitting System. IEEE Transactions on Industry Applications, 2016, 52, 1979-1988.	4.9	67
5	Design and control methodology of plug-in hybrid electric vehicles. , 2008, , .		61
6	Integration of Renewable Energy Sources by Load Shifting and Utilizing Value Storage. IEEE Transactions on Smart Grid, 2019, 10, 4974-4984.	9.0	42
7	Fault-Tolerant Control of PMSM With Inter-Turn Short-Circuit Fault. IEEE Transactions on Energy Conversion, 2019, 34, 2267-2275.	5.2	39
8	A Review of the More Electric Aircraft Power Electronics. , 2019, , .		39
9	Generalized Gyration Theory. IEEE Transactions on Power Electronics, 2010, 25, 1832-1837.	7.9	32
10	Demand side management by using electric vehicles as Distributed Energy Resources. , 2012, , .		23
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	High-Performance 4WD Electric Powertrain With Flywheel Kinetic Energy Recovery. IEEE Transactions on Power Electronics, 2021, 36, 772-784.	7.9	22
13	Net Zero Energy Buildings: Variations, Clarifications, and Requirements in Response to the Paris Agreement. Energies, 2021, 14, 3760.	3.1	21
14	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
15	State of the art and future trends in position sensorless brushless DC motor/generator drives. , 2005, , .		17
16	Hybridized Electric Energy Storage Systems for Hybrid Electric Vehicles. , 2006, , .		17
17	Optimal Coordination of Wind Power and Pumped Hydro Energy Storage. Energies, 2019, 12, 4387.	3.1	15
18	Accurate Wind Turbine Annual Energy Computation by Advanced Modeling. IEEE Transactions on Industry Applications, 2017, 53, 1761-1768.	4.9	14

#	ARTICLE	IF	CITATIONS
19	Optimal Control Method of Magnetic Switch Used in High-Voltage Power Supply. IEEE Transactions on Power Electronics, 2013, 28, 1065-1071.	7.9	13
20	Feasibility investigation of a hybrid on-grid wind photovoltaic retrofitting system. , 2015, , .		13
21	Electro-Mechanical EV Powertrain With Reduced Volt-Ampere Rating. IEEE Transactions on Vehicular Technology, 2019, 68, 224-233.	6.3	13
22	Design and control of a ultracapacitor boosted hybrid fuel cell vehicle. , 2009, , .		12
23	High step-up Z-source DC-DC converter with flyback and voltage multiplier. , 2017, , .		11
24	Dynamic Programming Optimized Constrained Engine on and off Control Strategy for Parallel HEV. , 2013, , .		10
25	Feasibility Study of Sustainable Energy Sources in a Fossil Fuel Rich Country. IEEE Transactions on Industry Applications, 2019, 55, 4433-4440.	4.9	10
26	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
27	On-line diagnosis of inter-turn short circuit fault for DC brushed motor. ISA Transactions, 2018, 77, 179-187.	5.7	9
28	Transmotor-Based Powertrain for High-Performance Electric Vehicle. IEEE Transactions on Transportation Electrification, 2020, 6, 1199-1210.	7.8	9
29	Fast closedâ€form solution of lineâ€toâ€line voltage total harmonic distortion for threeâ€level inverters. IET Power Electronics, 2013, 6, 581-591.	2.1	8
30	Efficient Flywheel-Based All-Wheel-Drive Electric Powertrain. IEEE Transactions on Industrial Electronics, 2021, 68, 5661-5671.	7.9	8
31	Electric and Hybrid Vehicles. Proceedings of the IEEE, 2021, 109, 962-966.	21.3	6
32	Design study of parallel HEV drive train with full size engine. , 2013, , .		5
33	Microcomputer Control of a Current Source DC-DC Converter. IEEE Transactions on Industry Applications, 1983, IA-19, 690-698.	4.9	4
34	High Performance Brushless Permanent Magnet Motor/Generator Drives in Electric and Hybrid Electric Vehicles. , 0, , .		3
35	An education program for transportation electrification. , 2010, , .		3
36	Socioeconomically sustainable rural microgrid engineering design. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
37	Cost analysis of an improved Z-source-based power processing system for photo-voltaic applications. , 2017, , .		3
38	Optimization and layout of a wind farm connected to a power distribution system. , 2018, , .		3
39	Brushless Doubly-Fed Induction Machine with Feed-Forward Torque Compensation Control. , 2021, , .		3
40	A Precise Analytical Model of the Grid Connected Cascaded Doubly Fed Induction Machine. , 2021, , .		2
41	An Adaptable Net Zero Model: Energy Analysis of a Monitored Case Study. Energies, 2022, 15, 4016.	3.1	2
42	Switched-mode converters for high-power DC-DC applications. International Journal of Electronics, 1994, 77, 583-599.	1.4	0
43	Reconstruction of effective wind speed for fixed-speed wind turbines based on frequency data fusion. , 2010, , .		0
44	On-line fault diagnosis of electric machine based on the Hidden Markov Model. , 2016, , .		0
45	Impact of Mixed Switching Frequency Scheme on Different Topologies of Multilevel Converters for Efficiency Improvement. , 2020, , .		0
46	Hybrid Energy Storage Systems for Vehicle Applications. , 2021, , 275-292.		0
47	Detailed Model of the Grid-Connected Cascaded Doubly Fed Induction Machine. IEEE Transactions on Industry Applications, 2022, 58, 3414-3423.	4.9	0