Mohamed Derbeli

List of Publications by Year
in descending order

31 papers	534 citations	687363 13 h-index	752698 20 g-index
31 all docs	31 docs citations	31 times ranked	338 citing authors

#	Article	IF	Citations
1	Control of PEM fuel cell power system using sliding mode and super-twisting algorithms. International Journal of Hydrogen Energy, 2017, 42, 8833-8844.	7.1	74
2	A Robust Maximum Power Point Tracking Control Method for a PEM Fuel Cell Power System. Applied Sciences (Switzerland), 2018, 8, 2449.	2.5	53
3	Robust high order sliding mode control for performance improvement of PEM fuel cell power systems. International Journal of Hydrogen Energy, 2020, 45, 29222-29234.	7.1	45
4	Design and Implementation of High Order Sliding Mode Control for PEMFC Power System. Energies, 2020, 13, 4317.	3.1	34
5	Real-Time Implementation of a New MPPT Control Method for a DC-DC Boost Converter Used in a PEM Fuel Cell Power System. Actuators, 2020, 9, 105.	2.3	30
6	A global integral terminal sliding mode control based on a novel reaching law for a proton exchange membrane fuel cell system. Applied Energy, 2021, 301, 117473.	10.1	27
7	Real-Time Implementation of a Super Twisting Algorithm for PEM Fuel Cell Power System. Energies, 2019, 12, 1594.	3.1	26
8	Provision of Frequency Response from Wind Farms: A Review. Energies, 2021, 14, 6689.	3.1	24
9	Maximum Power Point Tracking Techniques for Photovoltaic Panel: A Review and Experimental Applications. Energies, 2021, 14, 7806.	3.1	21
10	Experimental validation of disturbance observer-based adaptive terminal sliding mode control subject to control input limitations for SISO and MIMO systems. European Journal of Control, 2022, 63, 151-163.	2.6	20
11	Control of Proton Exchange Membrane Fuel Cell (PEMFC) power system using PI controller. , 2017, , .		17
12	High-Performance Tracking for Proton Exchange Membrane Fuel Cell System PEMFC Using Model Predictive Control. Mathematics, 2021, 9, 1158.	2.2	17
13	Advances in Tracking Control for Piezoelectric Actuators Using Fuzzy Logic and Hammerstein-Wiener Compensation. Mathematics, 2020, 8, 2071.	2.2	13
14	Fuzzy Logic Approach for Maximum Power Point Tracking Implemented in a Real Time Photovoltaic System. Applied Sciences (Switzerland), 2021, 11, 5927.	2.5	13
15	PEM fuel cell green energy generation â€" SMC efficiency optimization. , 2017, , .		12
16	Machine Learning Approach for Modeling and Control of a Commercial Heliocentris FC50 PEM Fuel Cell System. Mathematics, 2021, 9, 2068.	2.2	12
17	High-Performance Tracking for Piezoelectric Actuators Using Super-Twisting Algorithm Based on Artificial Neural Networks. Mathematics, 2021, 9, 244.	2.2	11
18	Fractional Order PID Design for a Proton Exchange Membrane Fuel Cell System Using an Extended Grey Wolf Optimizer. Processes, 2022, 10, 450.	2.8	11

#	Article	IF	Citations
19	A robust MPP tracker based on backstepping algorithm for Proton Exchange Membrane Fuel Cell power system. , 2017, , .		10
20	Proton exchange membrane fuel cell â€" A smart drive algorithm. , 2017, , .		10
21	An Efficient and Robust Current Control for Polymer Electrolyte Membrane Fuel Cell Power System. Sustainability, 2021, 13, 2360.	3.2	9
22	Double Fed Induction Generator Control Design Based on a Fuzzy Logic Controller for an Oscillating Water Column System. Energies, 2021, 14, 3499.	3.1	9
23	Advanced Trajectory Control for Piezoelectric Actuators Based on Robust Control Combined with Artificial Neural Networks. Applied Sciences (Switzerland), 2021, 11, 7390.	2.5	7
24	PEM fuel cell efficiency boosting â€" Robust MPP tracking. , 2018, , .		5
25	Efficiency Boosting for Proton Exchange Membrane Fuel Cell Power System Using New MPPT Method. , 2019, , .		5
26	Tracking Control for Piezoelectric Actuators with Advanced Feed-forward Compensation Combined with PI Control.. , 0, , .		5
27	Modeling and control of a stand-alone PEMFC for AC load-PMSM application. , 2017, , .		4
28	Smart auto-tuned regulators in electric vehicule PMSM drives. , 2017, , .		3
29	Optimal Energy Control of a PEM Fuel Cell/Battery Storage System. , 2019, , .		3
30	Sensorless and robust PEMFEC power system drive based on Z(Tn)observability. , 2017, , .		2
31	Experimental Analysis of a Fuzzy Scheme against a Robust Controller for a Proton Exchange Membrane Fuel Cell System. Symmetry, 2022, 14, 139.	2.2	2