Hicham Chaoui

List of Publications by Year
in descending order

79	2,511	257357	206029
papers	citations	24	48
		h-index	g-index

79	79	79	1990
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lithium-Ion Batteries Long Horizon Health Prognostic Using Machine Learning. IEEE Transactions on Energy Conversion, 2022, 37, 1176-1186.	3.7	17
2	Adaptive Parameter Identification of a Fuel Cell System for Health-Conscious Energy Management Applications. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7963-7973.	4.7	5
3	Event-Triggered Non-Switching Networked Sliding Mode Control for Active Suspension System With Random Actuation Network Delay. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7521-7534.	4.7	7
4	Special issue on computational intelligence-based modeling, control and estimation in modern mechatronic systems. Neural Computing and Applications, 2022, 34, 5011-5013.	3.2	0
5	Remaining Useful Life Prediction of an Aircraft Turbofan Engine Using Deep Layer Recurrent Neural Networks. Actuators, 2022, 11, 67.	1.2	9
6	Optimal Cost Minimization Strategy for Fuel Cell Hybrid Electric Vehicles Based on Decision-Making Framework. IEEE Transactions on Industrial Informatics, 2021, 17, 2388-2399.	7.2	29
7	Online System Identification of a Fuel Cell Stack With Guaranteed Stability for Energy Management Applications. IEEE Transactions on Energy Conversion, 2021, 36, 2714-2723.	3.7	11
8	Universal Control of Permanent Magnet Synchronous Motors with Uncertain Dynamics. Actuators, 2021, 10, 49.	1.2	12
9	Remaining Useful Life Assessment for Lithium-Ion Batteries Using CNN-LSTM-DNN Hybrid Method. IEEE Transactions on Vehicular Technology, 2021, 70, 4252-4261.	3.9	104
10	Real-Time Parameter Estimation of a Fuel Cell for Remaining Useful Life Assessment. IEEE Transactions on Power Electronics, 2021, 36, 7470-7479.	5.4	14
11	Maximum Power Tracking for a Wind Energy Conversion System Using Cascade-Forward Neural Networks. IEEE Transactions on Sustainable Energy, 2021, 12, 2367-2377.	5.9	23
12	An Adaptive State Machine Based Energy Management Strategy for a Multi-Stack Fuel Cell Hybrid Electric Vehicle. IEEE Transactions on Vehicular Technology, 2020, 69, 220-234.	3.9	108
13	Adaptive Control of a 3-DOF Helicopter Under Structured and Unstructured Uncertainties. Journal of Control, Automation and Electrical Systems, 2020, 31, 94-107.	1.2	7
14	Adaptive Interval Type-2 Fuzzy Logic Control of a Three Degree-of-Freedom Helicopter. Robotics, 2020, 9, 59.	2.1	4
15	Cost Minimization Strategy for Fuel Cell Hybrid Electric Vehicles Considering Power Sources Degradation. IEEE Transactions on Vehicular Technology, 2020, 69, 12832-12842.	3.9	19
16	Adaptive Control of Four-Quadrant DC-DC Converters in Both Discontinuous and Continuous Conduction Modes. Energies, 2020, 13, 4187.	1.6	1
17	Sliding Mode Self-Sensing Control of Synchronous Machine Using Super Twisting Interconnected Observers. Energies, 2020, 13, 4199.	1.6	3
18	A Novel Switching Table for a Modified Three-Level Inverter-Fed DTC Drive with Torque and Flux Ripple Minimization. Energies, 2020, 13, 4646.	1.6	6

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19	Particle Filter-Based Electricity Load Prediction for Grid-Connected Microgrid Day-Ahead Scheduling. Energies, 2020, 13, 6489.	1.6	6
20	Online energy management of a hybrid fuel cell vehicle considering the performance variation of the power sources. IET Electrical Systems in Transportation, 2020, 10, 360-368.	1.5	5
21	Simplified Speed Control of Permanent Magnet Synchronous Motors Using Genetic Algorithms. IEEE Transactions on Power Electronics, 2019, 34, 3563-3574.	5.4	31
22	An Online Energy Management Strategy for a Fuel Cell/Battery Vehicle Considering the Driving Pattern and Performance Drift Impacts. IEEE Transactions on Vehicular Technology, 2019, 68, 11427-11438.	3.9	48
23	Robust three degrees of freedom based on H âˆž controller of voltage/current loops for DG unit in micro grids. IET Power Electronics, 2019, 12, 1413-1424.	1.5	9
24	Generalized Cascaded Control Technology for a Twin-Rotor MIMO System with State Estimation. Journal of Control, Automation and Electrical Systems, 2019, 30, 170-180.	1.2	7
25	Lithium-Ion Batteries Health Prognosis Considering Aging Conditions. IEEE Transactions on Power Electronics, 2019, 34, 6834-6844.	5.4	108
26	Remaining Useful Life Prognosis of Supercapacitors Under Temperature and Voltage Aging Conditions. IEEE Transactions on Industrial Electronics, 2018, 65, 4357-4367.	5.2	58
27	Current Sensorless MTPA Operation of Interior PMSM Drives for Vehicular Applications. IEEE Transactions on Vehicular Technology, 2018, 67, 6872-6881.	3.9	40
28	Efficient PMSM-Inverter-Based Drive for Vehicular Transportation Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 4783-4792.	3.9	23
29	Adaptive RBF Network Based Direct Voltage Control for Interior PMSM Based Vehicles. IEEE Transactions on Vehicular Technology, 2018, , 1-1.	3.9	23
30	Energetic Macroscopic Representation of a Marine Current Turbine System with Loss Minimization Control. IEEE Transactions on Sustainable Energy, 2018, 9, 106-117.	5.9	21
31	MTPA Trajectory Tracking for IPMSM Drives: A Comparative Study and Analysis. , 2018, , .		4
32	Deep Reinforcement Learning Energy Management System for Multiple Battery Based Electric Vehicles. , 2018, , .		15
33	Intelligent Networked Navigation of Mobile Robots with Collision Avoidance. , 2018, , .		1
34	A novel online energy management strategy for multi fuel cell systems. , 2018, , .		16
35	Adaptive State of Charge Estimation of Lithium-Ion Batteries With Parameter and Thermal Uncertainties. IEEE Transactions on Control Systems Technology, 2017, 25, 752-759.	3.2	29
36	Online Parameter Identification of Lithium-Ion Batteries With Surface Temperature Variations. IEEE Transactions on Vehicular Technology, 2017, 66, 2000-2009.	3.9	21

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37	Adaptive Interval Type-2 Fuzzy Logic Control for PMSM Drives With a Modified Reference Frame. IEEE Transactions on Industrial Electronics, 2017, 64, 3786-3797.	5.2	100
38	Online Parameter Identification for Supercapacitor State-of-Health Diagnosis for Vehicular Applications. IEEE Transactions on Power Electronics, 2017, 32, 9355-9363.	5.4	53
39	Aging prediction and state of charge estimation of a LiFePO 4 battery using input time-delayed neural networks. Electric Power Systems Research, 2017, 146, 189-197.	2.1	120
40	Universal real-time control framework and Internet of Things for fast-paced research and development based production environments. , 2017, , .		0
41	State of Charge and State of Health Estimation for Lithium Batteries Using Recurrent Neural Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 8773-8783.	3.9	374
42	Adaptive Fuzzy Logic Control for a Class of Unknown Nonlinear Dynamic Systems with Guaranteed Stability. Journal of Control, Automation and Electrical Systems, 2017, 28, 727-736.	1.2	7
43	Online Lifetime Estimation of Supercapacitors. IEEE Transactions on Power Electronics, 2017, 32, 7199-7206.	5.4	33
44	Adaptive hysteresis current control of active power filters for power quality improvement. , 2017, , .		8
45	Twin-rotor MIMO system and its control using interval type-2 fuzzy logic. , 2017, , .		2
46	Adaptive motion control of quadrotors under parametric uncertainties with guaranteed stability. , 2017, , .		0
47	Comparative Study of Online Open Circuit Voltage Estimation Techniques for State of Charge Estimation of Lithium-Ion Batteries. Batteries, 2017, 3, 12.	2.1	27
48	Online Supercapacitors Diagnosis for Electric Buses Technologies. , 2017, , .		3
49	LINEAR TIME-VARYING FEEDBACK LAW FOR VEHICLES WITH ACKERMANN STEERING. International Journal of Robotics and Automation, 2017, 32, .	0.1	6
50	Neighboring optimal control of partially-observed twin rotor multi-input multi-output system. , 2016, , .		1
51	Adaptive Fuzzy Logic Control Mixing Strategy of DC/DC Converters in Both Discontinuous and Continuous Conduction Modes. Journal of Control, Automation and Electrical Systems, 2016, 27, 274-288.	1.2	13
52	Adaptive Control of Piezoelectric Actuators with Hysteresis and Disturbance Compensation. Journal of Control, Automation and Electrical Systems, 2016, 27, 579-586.	1.2	3
53	Adaptive Control of Venturini Modulation Based Matrix Converters Using Interval Type-2 Fuzzy Sets. Journal of Control, Automation and Electrical Systems, 2016, 27, 132-143.	1.2	8
54	State-of-Charge and State-of-Health Lithium-Ion Batteriesâ€™ Diagnosis According to Surface Temperature Variation. IEEE Transactions on Industrial Electronics, 2016, 63, 2391-2402.	5.2	129

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55	Online Supercapacitor Diagnosis for Electric Vehicle Applications. IEEE Transactions on Vehicular Technology, 2016, 65, 4241-4252.	3.9	41
56	Lyapunov-Based Adaptive State of Charge and State of Health Estimation for Lithium-Ion Batteries. IEEE Transactions on Industrial Electronics, 2015, 62, 1610-1618.	5.2	145
57	Hierarchical energy management scheme for multiple battery-based smart grids. , 2014, , .		4
58	Sensorless ANN-based control for permanent magnet synchronous machine drives. , 2013, , .		3
59	Computationally Efficient Adaptive Type-2 Fuzzy Control of Flexible-Joint Manipulators. Robotics, 2013, 2, 66-91.	2.1	25
60	Adaptive friction compensation of flexible-joint manipulators with parametric uncertainties. , 2013, , .		3
61	Adaptive Fuzzy Logic Control of Permanent Magnet Synchronous Machines With Nonlinear Friction. IEEE Transactions on Industrial Electronics, 2012, 59, 1123-1133.	5.2	214
62	Adaptive vector control of permanent magnet synchronous machines with speed estimation. , 2012, , .		1
63	Adaptive neural network control of flexible-joint robotic manipulators with friction and disturbance. , 2012, , .		4
64	Neural network modeling of cold-gas thrusters for a spacecraft formation flying test-bed. , 2012, , .		13
65	Adaptive control of permanent magnet synchronous machines with disturbance estimation. Journal of Control Theory and Applications, 2012, 10, 337-343.	0.8	8
66	Adaptive DC bus voltage control for renewable energy production systems with uncertainties. , 2011, , .		0
67	Accurate state of charge (SOC) estimation for batteries using a reduced-order observer. , 2011, , .		13
68	Fuzzy logic based supervisory energy management for multisource electric vehicles. , 2011, , .		6
69	Adaptive Lyapunov-based neural network sensorless control of permanent magnet synchronous machines. Neural Computing and Applications, 2011, 20, 717-727.	3.2	35
70	Motion and balance neural control of inverted pendulums with nonlinear friction and disturbance. , 2011, , .		8
71	Adaptive state of charge (SOC) estimation for batteries with parametric uncertainties. , 2010, , .		11
72	Adaptive fuzzy logic control of a DC-DC boost converter with large parametric and load uncertainties. , 2010, , .		6

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73	ANN-based adaptive motion and posture control of an inverted pendulum with unknown dynamics. , 2009, , .		3
74	ANN-Based Adaptive Control of Robotic Manipulators With Friction and Joint Elasticity. IEEE Transactions on Industrial Electronics, 2009, 56, 3174-3187.	5.2	126
75	Type-2 Fuzzy Logic Control of a Flexible-Joint Manipulator. Journal of Intelligent and Robotic Systems: Theory and Applications, 2008, 51, 159-186.	2.0	80
76	FPGA implementation of a hybrid neural fuzzy controller for flexible-joint manipulators with uncertain dynamics. , 2007, , .		1
77	Artificial Neural Network Control of a Flexible-Joint Manipulator Under Unstructured Dynamic Uncertainties. , 2007, , .		1
78	Hybrid Neural Fuzzy Sliding Mode Control of Flexible-Joint Manipulators with Unknown Dynamics. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	24
79	LQR control of a 3-DOF helicopter system. International Journal of Dynamics and Control, 0, , 1.	1.5	5