

Issam A Smadi

List of Publications by Year in descending order

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35
papers

274
citations

1163117

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h-index

1058476

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g-index

35
all docs

35
docs citations

35
times ranked

205
citing authors

#	ARTICLE	IF	CITATIONS
1	Development, Analysis, and Experimental Realization of a Direct-Drive Helical Motor. IEEE Transactions on Industrial Electronics, 2012, 59, 2208-2216.	7.9	50
2	Modeling and control of a high-thrust direct-drive spiral motor. , 2010, , .		26
3	Fuzzy logic controller for overhead cranes. Engineering Computations, 2006, 23, 84-98.	1.4	20
4	On Fuzzy Control of Chaotic Systems. JVC/Journal of Vibration and Control, 2004, 10, 979-993.	2.6	17
5	Online Optimal Switching Frequency Selection for Grid-Connected Voltage Source Inverters. Electronics (Switzerland), 2017, 6, 110.	3.1	17
6	Tracking control of DC motors via mimo nonlinear fuzzy control. Chaos, Solitons and Fractals, 2009, 42, 702-710.	5.1	14
7	Phase-locked loop with DC offset removal for single-phase grid-connected converters. Electric Power Systems Research, 2021, 194, 106980.	3.6	13
8	DC offset rejection in a frequency-fixed second-order generalized integrator-based phase-locked loop for single-phase grid-connected applications. Protection and Control of Modern Power Systems, 2022, 7, .	7.5	12
9	On Nonlinear Disturbance Observer Based Tracking Control for Euler-Lagrange Systems. Journal of System Design and Dynamics, 2009, 3, 330-343.	0.3	10
10	Optimal design of passive RC-damped LCL filter for grid-connected voltage source inverters. Electrical Engineering, 2018, 100, 2499-2508.	2.0	8
11	Phase Locked Loop with DC-Offset Removal for Grid Synchronization. , 2019, , .		8
12	Partial Shading Detection and Global MPPT Algorithm for PV System. , 2019, , .		7
13	On a high-backdrivable direct-drive actuator for musculoskeletal bipedal robots. , 2010, , .		6
14	On independent position/gap control of a spiral motor. , 2010, , .		6
15	Examination of a control method for a walking assistance robotics cane. , 2014, , .		6
16	A robotic cane for walking assistance. , 2014, , .		6
17	Optimal Control of a Compact Converter in an AC Microgrid. Electronics (Switzerland), 2018, 7, 102.	3.1	5
18	On the Performance Optimization of Two-Level Three-Phase Grid-Feeding Voltage-Source Inverters. Energies, 2018, 11, 400.	3.1	5

#	ARTICLE	IF	CITATIONS
19	Explicit one-step model and adaptive maximum power point tracking algorithm for a photovoltaic module. Computers and Electrical Engineering, 2020, 85, 106659.	4.8	5
20	An Approach to Fuzzy Control for a Class of Nonlinear Systems: Stability and Design Issues. International Journal of Modelling and Simulation, 2005, 25, 106-111.	3.3	4
21	On direct-drive motion of a spiral motor. , 2010, , .		4
22	Generalized Optimal and Explicit PI/PID Tuning Formulas for Underdamped Second-order Systems. International Journal of Control, Automation and Systems, 2020, 18, 1023-1032.	2.7	4
23	A phase-locked loop with an improved dynamic response under abnormal grid conditions. Computers and Electrical Engineering, 2022, 97, 107645.	4.8	4
24	Development of musculoskeletal biped robot driven by direct-drive actuators. , 2011, , .		3
25	Optimal design of output LC filter and cooling for three-phase voltage-source inverters using teaching-learning-based optimization. , 2016, , .		3
26	Variable switching frequency algorithm for optimal tradeoff between switching losses and total demand distortion in grid-tied three-phase voltage-source inverters. , 2016, , .		2
27	A novel compact AC/AC converter for hybrid microgrids. , 2017, , .		2
28	Fuzzy Logic Controller for an Electrolytic Capacitor-less IPMSM Drive System. , 2018, , .		2
29	Power quality improvement of a class of reduced device count inverter. Simulation Modelling Practice and Theory, 2019, 96, 101939.	3.8	2
30	Selective harmonics reduction for 3(n+1) switch inverter using optimal leveling and sorting PWM technique. , 2017, , .		1
31	Modeling and Control of Multi-Port DC/DC Converter. , 2019, , .		1
32	Experimental Validation of Shared Inverter Topology to Drive Multi AC-Loads. International Journal of Electrical and Computer Engineering, 2018, 8, 793.	0.7	1
33	Two Fuzzy Adaptive Controllers for Linear Systems with Linear Disturbances. International Journal of Modelling and Simulation, 2006, 26, 323-330.	3.3	0
34	Nonlinear controller-observer design for an inverted pendulum on a cart based on full fuzzy modeling. , 2015, , .		0
35	An algorithm to extract the maximum power from the PV-based generation systems under non-uniform weather. International Journal of Power Electronics and Drive Systems, 2022, 13, 1129.	0.6	0