

Walter Schumacher

List of Publications by Year in descending order

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29
papers

382
citations

1307594

7
h-index

1281871

11
g-index

29
all docs

29
docs citations

29
times ranked

469
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Hysteresis Based PWM Schemes \hat{i}^* -PWM and Direct Torque Control. Applied Sciences (Switzerland), 2021, 11, 2293.	2.5	2
2	Design of Multifrequency Proportional-Resonant Current Controllers for Voltage-Source Converters. IEEE Transactions on Power Electronics, 2020, 35, 13573-13589.	7.9	25
3	Passivation of Current-Controlled Grid-Connected VSCs Using Passivity Indices. IEEE Transactions on Industrial Electronics, 2019, 66, 8971-8980.	7.9	26
4	A Modified ZOH Model for Representing the Small-Signal PWM Behavior in Digital DC-AC Converter Systems. , 2019, , .		3
5	Small-Signal Modeling of Three-Phase Synchronous Reference Frame Phase-Locked Loops. IEEE Transactions on Power Electronics, 2018, 33, 5556-5560.	7.9	42
6	Algebraic Operations on Delta-Sigma Bit-Streams. Mathematical and Computational Applications, 2018, 23, 49.	1.3	4
7	Modeling and small-signal stability analysis of decentralized energy sources implementing Q(U) reactive power control. , 2017, , .		2
8	Online Estimation and Correction of Systematic Encoder Line Errors. Machines, 2017, 5, 1.	2.2	41
9	Nonlinear reduced-order model of an AC microgrid. , 2015, , .		5
10	Stability analysis and design of the improved droop controller on a voltage source inverter. , 2015, , .		4
11	Stability optimization for distributed generation of load-following energy. , 2014, , .		2
12	Parameter identification of transverse flux machines using harmonic current control. , 2014, , .		2
13	Modeling power inverter interactions in a low voltage grid. , 2014, , .		4
14	Distributed coalitions for reliable and stable provision of frequency response reserve. , 2013, , .		13
15	Maneuvering assistant for truck and trailer combinations with arbitrary trailer hitching. , 2013, , .		8
16	Redundancy resolution and control of manipulators driven by antagonistic pneumatic muscles. , 2012, , .		2
17	Model-based controller design for antagonistic pairs of fluidic muscles in manipulator motion control. , 2012, , .		6
18	On the joint design and hydraulic actuation of octahedron VGT robot manipulators. , 2011, , .		5

#	ARTICLE	IF	CITATIONS
19	Tracking control with hysteresis compensation for manipulator segments driven by pneumatic artificial muscles. , 2011, , .		16
20	Enhancements of force-torque map based assembly applied to parallel robots. , 2010, , .		3
21	On contact models for assembly tasks: Experimental investigation beyond the peg-in-hole problem on the example of force-torque maps. , 2010, , .		27
22	Anti-windup design for trajectory tracking of a parallel robot - An holistic approach. , 2010, , .		1
23	A High-Performance Electronic Hardware-in-the-Loop Driveâ€œLoad Simulation Using a Linear Inverter (LinVerter). IEEE Transactions on Industrial Electronics, 2010, 57, 1208-1216.	7.9	56
24	Redundant Parallel Kinematic Structures and Their Control. Springer Tracts in Advanced Robotics, 2010, , 143-157.	0.4	4
25	Modeling, Control, and Evaluation of an Experimental Adaptronic Five-Bar Robot. Springer Tracts in Advanced Robotics, 2010, , 125-142.	0.4	1
26	Design of the new modular tendon-driven manipulator TENDRIM. , 2009, , .		0
27	Caroline: An autonomously driving vehicle for urban environments. Journal of Field Robotics, 2008, 25, 674-724.	6.0	69
28	Unbalance Compensation on AMB System without a Rotational Sensor. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2003, 46, 423-428.	0.3	8
29	On the Impact Force Reduction of a VGT-Robot-Structure with a Variable Compliant and Damped Hydropneumatic Actuator. Applied Mechanics and Materials, 0, 799-800, 1040-1044.	0.2	1