

Ilse Cervantes

List of Publications by Year in descending order

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78
papers

1,121
citations

567281
15
h-index

414414
32
g-index

78
all docs

78
docs citations

78
times ranked

1049
citing authors

#	ARTICLE	IF	CITATIONS
1	Sampled-Data Model of a Two-Phase, Dual Interleaved Buck-Boost Converter With PCM. IEEE Transactions on Power Electronics, 2022, 37, 6349-6358.	7.9	2
2	Editorial [in Spanish, Portuguese and English]. IEEE Latin America Transactions, 2022, 20, 3-5.	1.6	0
3	Local Path Planning for Autonomous Vehicles Based on the Natural Behavior of the Biological Action-Perception Motion. Energies, 2022, 15, 1769.	3.1	8
4	Solar hydrogen production in urban areas of Mexico: towards hydrogen cities. International Journal of Hydrogen Energy, 2022, 47, 30012-30026.	7.1	8
5	The effect of the energy interchange dynamics on the zero-energy hydrogen economy of households with FC hybrid electric vehicles. International Journal of Hydrogen Energy, 2021, 46, 21160-21181.	7.1	9
6	The effect of parameters and irradiance estimation techniques on PV potential quantification: The case of Mexico. Sustainable Energy Technologies and Assessments, 2021, 45, 101131.	2.7	4
7	Design and Preliminary Testing of a Magnetic Spring as an Energy-Storing System for Reduced Power Consumption of a Humanoid Arm. Actuators, 2021, 10, 136.	2.3	1
8	Two-Phase, Dual Interleaved Buck-Boost DC-DC Converter for Automotive Applications. IEEE Transactions on Industry Applications, 2020, 56, 390-402.	4.9	33
9	Performance Analysis of a Hybrid Electric Vehicle with Multiple Converter Configuration. Applied Sciences (Switzerland), 2020, 10, 1074.	2.5	3
10	Averaged Models of a Six-Phase, Dual-Interleaved DC-DC Buck-Boost Converter with Interphase Transformers. , 2020, , .		3
11	Switching rule for a bidirectional DC/DC converter in an electric vehicle. Control Engineering Practice, 2019, 82, 108-117.	5.5	11
12	Design of a Test Bed for Teaching/Research Purposes in PHEVs. , 2018, , .		0
13	Dynamic Performance of the Electric Storage System as a Function of the Powertrain in EVs.. , 2018, , .		0
14	A graphical approach to optimal power management for uncertain OFF-Grid PV-FC-electrolyzer-battery hybrid systems. International Journal of Hydrogen Energy, 2018, 43, 19336-19351.	7.1	11
15	An Approach to Mitigate the Lateral Skid for Wheeled Vehicles. IEEE Latin America Transactions, 2018, 16, 1306-1313.	1.6	1
16	Robust indirect-defined envelope control for rollover and lateral skid prevention. Control Engineering Practice, 2017, 61, 149-162.	5.5	16
17	On the Implementation of Advanced Hybrid Controllers of AC/DC Converters. IEEE Latin America Transactions, 2017, 15, 1677-1683.	1.6	3
18	Test-bed to implement energy management strategies in PHEV. , 2016, , .		1

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19	Controllability of rectifiers and three point hysteresis line current control. Control Engineering Practice, 2016, 55, 212-225.	5.5	5
20	Hardware-in-the-loop test bed of FCHEVs for energy control purposes. , 2016, , .		2
21	Maximum Power Point Tracking Based on Sliding Mode Control. International Journal of Photoenergy, 2015, 2015, 1-8.	2.5	16
22	Chemical composition and phenolic compounds profile of cladodes from Opuntia spp. cultivars with different domestication gradient. Journal of Food Composition and Analysis, 2015, 43, 119-130.	3.9	97
23	On the Design of Robust Energy Management Strategies for FCHEV. IEEE Transactions on Vehicular Technology, 2015, 64, 1716-1728.	6.3	37
24	Practical stability of switched uncertain nonlinear systems using state-dependent switching laws. Nonlinear Analysis: Hybrid Systems, 2015, 18, 72-84.	3.5	7
25	Stability of Gain Scheduling Control for Aircraft with Highly Nonlinear Behavior. Mathematical Problems in Engineering, 2014, 2014, 1-12.	1.1	4
26	Robust Switched Predictive Braking Control for Rollover Prevention in Wheeled Vehicles. Mathematical Problems in Engineering, 2014, 2014, 1-12.	1.1	5
27	Control, Analysis, and Modeling of Vehicular Systems. Mathematical Problems in Engineering, 2014, 2014, 1-3.	1.1	0
28	Piecewise hysteresis-type control of a single phase active three-level rectifier with low THD. , 2014, , .		0
29	Remarks on the stabilizability of integrator switching systems. International Journal of Robust and Nonlinear Control, 2013, 23, 1972-1989.	3.7	2
30	Development and implementation of an E-learning system for electric circuits laboratory. , 2013, , .		3
31	Design of a Flexible Analog Signal Conditioning Circuit for DSP-Based Systems. Procedia Technology, 2013, 7, 231-237.	1.1	1
32	Toward geometrical design improvement of membraneless fuel cells: Numerical study. International Journal of Hydrogen Energy, 2013, 38, 14791-14800.	7.1	15
33	Analysis and study of high DC/DC boost converters. , 2013, , .		3
34	Virtual Estimator for Piecewise Linear Systems Based on Observability Analysis. Sensors, 2013, 13, 2735-2749.	3.8	3
35	Robust switched current control of converters. IET Control Theory and Applications, 2013, 7, 1398-1407.	2.1	8
36	A Grid-Connected Multilevel Current Source Inverter and Its Protection for Grid-Disconnection. International Journal of Photoenergy, 2013, 2013, 1-10.	2.5	1

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37	A switched control for UAVs. , 2012, , .		0
38	On the predictive rollover detection in wheeled vehicles. , 2012, , .		2
39	Averaged modeling of transformer-coupled interleaved boost converters. , 2012, , .		2
40	Design of a fly by wire technology system for an experimental more electric ultra-light aircraft. , 2011, , .		1
41	Hybrid control technique applied in a FC-SC electric vehicle platform. , 2010, , .		2
42	Multi-objective control for cascade boost converter with single active switch. , 2009, , .		5
43	Stability of an Electric Differential for Traction Applications. IEEE Transactions on Vehicular Technology, 2009, 58, 3224-3233.	6.3	53
44	Switched control of interleaved converters. , 2009, , .		4
45	Time and resonance patterns in chaotic piece-wise linear systems. Chaos, Solitons and Fractals, 2008, 37, 1511-1527.	5.1	0
46	INTERMITTENT OPERATION OF LINEAR DRIVEN SWITCHED SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 495-508.	1.7	3
47	Hybrid multi-objective control of DC-DC converters. , 2008, , .		2
48	Electric Differential for Traction Applications. , 2007, , .		5
49	Power Management Strategies for a Fuel Cell/Supercapacitor Electric Vehicle. , 2007, , .		5
50	Study of a class of hybrid-time systems. Chaos, Solitons and Fractals, 2007, 32, 1081-1095.	5.1	15
51	Zero-Voltage-Transition Control for a Class of Resonant Converters. IEEE Transactions on Industrial Electronics, 2006, 53, 1747-1749.	7.9	11
52	Scaling properties of image textures: A detrending fluctuation analysis approach. Physica A: Statistical Mechanics and Its Applications, 2006, 361, 677-698.	2.6	29
53	Monocular direct visual servoing for regulation of manipulators moving in the 3D Cartesian space. , 2006, , .		5
54	Multi -Reconfigurable Power System for EV Applications. , 2006, , .		1

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55	A two-loop excitation control system for synchronous generators. International Journal of Electrical Power and Energy Systems, 2005, 27, 556-566.	5.5	10
56	A DOUBLE-SCROLL ROSSLER SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 1815-1822.	1.7	0
57	CHUA'S CIRCUIT STABILIZATION: A DAMPING INJECTION APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 181-189.	1.7	2
58	Vision-Based PID Control of Planar Robots. IEEE/ASME Transactions on Mechatronics, 2004, 9, 132-136.	5.8	10
59	Testing robustness and performance of PSS+AVR schemes for synchronous generators using finite-element models. International Journal of Electrical Power and Energy Systems, 2003, 25, 551-565.	5.5	7
60	Semiglobal stability of saturated linear PID control for robot manipulators. Automatica, 2003, 39, 989-995.	5.0	98
61	Linear multiloop control of quasi-resonant converters. IEEE Transactions on Power Electronics, 2003, 18, 1194-1201.	7.9	23
62	A simple tracking control for chua's circuit. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 280-284.	0.1	12
63	Pid Regulation Of Robot Manipulators With Elastic Joints. Asian Journal of Control, 2003, 5, 32-38.	3.0	13
64	A Stable Output Feedback Position Control With Integral Action For Robot Manipulators. Asian Journal of Control, 2003, 5, 230-241.	3.0	1
65	Remarks on the stability of parallel force/position control. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2003, 217, 519-524.	1.0	0
66	STABILITY OF OBSERVER-BASED CHAOTIC COMMUNICATIONS FOR A CLASS OF LUR'E SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1605-1618.	1.7	33
67	A robust velocity field control. IEEE Transactions on Control Systems Technology, 2002, 10, 888-894.	5.2	34
68	A stable design of PI control for DC-DC converters with an RHS zero. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2001, 48, 103-106.	0.1	111
69	On the PID tracking control of robot manipulators. Systems and Control Letters, 2001, 42, 37-46.	2.3	134
70	Convergence rate of observer-based approach for chaotic synchronization. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 289, 193-198.	2.1	12
71	PID regulation of robot manipulators: stability and performance. Systems and Control Letters, 2000, 41, 73-83.	2.3	98
72	Linear control of Euler-Lagrange systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 278, 77-87.	2.1	0

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73	A Novel Proportional~Integral-Derivative Control Configuration with Application to the Control of Batch Distillation. Industrial & Engineering Chemistry Research, 2000, 39, 432-440.	3.7	10
74	Robustness and Parametrization of the Proportional Plus Double-Integral Compensator~. Industrial & Engineering Chemistry Research, 1999, 38, 2013-2020.	3.7	4
75	Robust Proportional~Integral Control. Industrial & Engineering Chemistry Research, 1998, 37, 4740-4747.	3.7	13
76	Robust Controllers for a Heat Exchanger. Industrial & Engineering Chemistry Research, 1997, 36, 382-388.	3.7	23
77	Robust PID control for robots manipulators with elastic joints. , 0, , .		5
78	Habituating control of quasi-resonant converters. , 0, , .		0