

Ilse Cervantes

List of Publications by Year in descending order

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77
papers

1,121
citations

566801

15
h-index

414034

32
g-index

78
all docs

78
docs citations

78
times ranked

1049
citing authors

#	ARTICLE	IF	CITATIONS
1	On the PID tracking control of robot manipulators. <i>Systems and Control Letters</i> , 2001, 42, 37-46.	1.3	134
2	A stable design of PI control for DC-DC converters with an RHS zero. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2001, 48, 103-106.	0.1	111
3	PID regulation of robot manipulators: stability and performance. <i>Systems and Control Letters</i> , 2000, 41, 73-83.	1.3	98
4	Semiglobal stability of saturated linear PID control for robot manipulators. <i>Automatica</i> , 2003, 39, 989-995.	3.0	98
5	Chemical composition and phenolic compounds profile of cladodes from <i>Opuntia</i> spp. cultivars with different domestication gradient. <i>Journal of Food Composition and Analysis</i> , 2015, 43, 119-130.	1.9	97
6	Stability of an Electric Differential for Traction Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2009, 58, 3224-3233.	3.9	53
7	On the Design of Robust Energy Management Strategies for FCHEV. <i>IEEE Transactions on Vehicular Technology</i> , 2015, 64, 1716-1728.	3.9	37
8	A robust velocity field control. <i>IEEE Transactions on Control Systems Technology</i> , 2002, 10, 888-894.	3.2	34
9	STABILITY OF OBSERVER-BASED CHAOTIC COMMUNICATIONS FOR A CLASS OF LUR'E SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2002, 12, 1605-1618.	0.7	33
10	Two-Phase, Dual Interleaved Buck-Boost DC-DC Converter for Automotive Applications. <i>IEEE Transactions on Industry Applications</i> , 2020, 56, 390-402.	3.3	33
11	Scaling properties of image textures: A detrending fluctuation analysis approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 361, 677-698.	1.2	29
12	Robust Controllers for a Heat Exchanger. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 382-388.	1.8	23
13	Linear multiloop control of quasi-resonant converters. <i>IEEE Transactions on Power Electronics</i> , 2003, 18, 1194-1201.	5.4	23
14	Maximum Power Point Tracking Based on Sliding Mode Control. <i>International Journal of Photoenergy</i> , 2015, 2015, 1-8.	1.4	16
15	Robust indirect-defined envelope control for rollover and lateral skid prevention. <i>Control Engineering Practice</i> , 2017, 61, 149-162.	3.2	16
16	Study of a class of hybrid-time systems. <i>Chaos, Solitons and Fractals</i> , 2007, 32, 1081-1095.	2.5	15
17	Toward geometrical design improvement of membraneless fuel cells: Numerical study. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 14791-14800.	3.8	15
18	Robust Proportional-Integral Control. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 4740-4747.	1.8	13

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19	Pid Regulation Of Robot Manipulators With Elastic Joints. Asian Journal of Control, 2003, 5, 32-38.	1.9	13
20	Convergence rate of observer-based approach for chaotic synchronization. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 289, 193-198.	0.9	12
21	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
22	Zero-Voltage-Transition Control for a Class of Resonant Converters. IEEE Transactions on Industrial Electronics, 2006, 53, 1747-1749.	5.2	11
23	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.	3.8	11
24	Switching rule for a bidirectional DC/DC converter in an electric vehicle. Control Engineering Practice, 2019, 82, 108-117.	3.2	11
25	A Novel Proportional-Integral-Derivative Control Configuration with Application to the Control of Batch Distillation. Industrial & Engineering Chemistry Research, 2000, 39, 432-440.	1.8	10
26	Vision-Based PID Control of Planar Robots. IEEE/ASME Transactions on Mechatronics, 2004, 9, 132-136.	3.7	10
27	A two-loop excitation control system for synchronous generators. International Journal of Electrical Power and Energy Systems, 2005, 27, 556-566.	3.3	10
28	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.	3.8	9
29	Robust switched current control of converters. IET Control Theory and Applications, 2013, 7, 1398-1407.	1.2	8
30	Local Path Planning for Autonomous Vehicles Based on the Natural Behavior of the Biological Action-Perception Motion. Energies, 2022, 15, 1769.	1.6	8
31	Solar hydrogen production in urban areas of Mexico: towards hydrogen cities. International Journal of Hydrogen Energy, 2022, 47, 30012-30026.	3.8	8
32	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.	3.3	7
33	Practical stability of switched uncertain nonlinear systems using state-dependent switching laws. Nonlinear Analysis: Hybrid Systems, 2015, 18, 72-84.	2.1	7
34	Robust PID control for robots manipulators with elastic joints. , 0, , .		5
35	Monocular direct visual servoing for regulation of manipulators moving in the 3D Cartesian space. , 2006, , .		5
36	Electric Differential for Traction Applications. , 2007, , .		5

#	ARTICLE	IF	CITATIONS
37	Power Management Strategies for a Fuel Cell/Supercapacitor Electric Vehicle. , 2007, , .		5
38	Multi-objective control for cascade boost converter with single active switch. , 2009, , .		5
39	Robust Switched Predictive Braking Control for Rollover Prevention in Wheeled Vehicles. Mathematical Problems in Engineering, 2014, 2014, 1-12.	0.6	5
40	Controllability of rectifiers and three point hysteresis line current control. Control Engineering Practice, 2016, 55, 212-225.	3.2	5
41	Robustness and Parametrization of the Proportional Plus Double-Integral Compensator. Industrial & Engineering Chemistry Research, 1999, 38, 2013-2020.	1.8	4
42	Switched control of interleaved converters. , 2009, , .		4
43	Stability of Gain Scheduling Control for Aircraft with Highly Nonlinear Behavior. Mathematical Problems in Engineering, 2014, 2014, 1-12.	0.6	4
44	The effect of parameters and irradiance estimation techniques on PV potential quantification: The case of Mexico. Sustainable Energy Technologies and Assessments, 2021, 45, 101131.	1.7	4
45	INTERMITTENT OPERATION OF LINEAR DRIVEN SWITCHED SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 495-508.	0.7	3
46	Development and implementation of an E-learning system for electric circuits laboratory. , 2013, , .		3
47	Analysis and study of high DC/DC boost converters. , 2013, , .		3
48	Virtual Estimator for Piecewise Linear Systems Based on Observability Analysis. Sensors, 2013, 13, 2735-2749.	2.1	3
49	On the Implementation of Advanced Hybrid Controllers of AC/DC Converters. IEEE Latin America Transactions, 2017, 15, 1677-1683.	1.2	3
50	Performance Analysis of a Hybrid Electric Vehicle with Multiple Converter Configuration. Applied Sciences (Switzerland), 2020, 10, 1074.	1.3	3
51	Averaged Models of a Six-Phase, Dual-Interleaved DC-DC Buck-Boost Converter with Interphase Transformers. , 2020, , .		3
52	CHUA'S CIRCUIT STABILIZATION: A DAMPING INJECTION APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 181-189.	0.7	2
53	Hybrid multi-objective control of DC-DC converters. , 2008, , .		2
54	Hybrid control technique applied in a FC-SC electric vehicle platform. , 2010, , .		2

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55	On the predictive rollover detection in wheeled vehicles. , 2012, , .		2
56	Averaged modeling of transformer-coupled interleaved boost converters. , 2012, , .		2
57	Remarks on the stabilizability of integrator switching systems. International Journal of Robust and Nonlinear Control, 2013, 23, 1972-1989.	2.1	2
58	Hardware-in-the-loop test bed of FCHEVs for energy control purposes. , 2016, , .		2
59	Sampled-Data Model of a Two-Phase, Dual Interleaved Buck-Boost Converter With PCM. IEEE Transactions on Power Electronics, 2022, 37, 6349-6358.	5.4	2
60	A Stable Output Feedback Position Control With Integral Action For Robot Manipulators. Asian Journal of Control, 2003, 5, 230-241.	1.9	1
61	Design of a fly by wire technology system for an experimental more electric ultra-light aircraft. , 2011, , .		1
62	Design of a Flexible Analog Signal Conditioning Circuit for DSP-Based Systems. Procedia Technology, 2013, 7, 231-237.	1.1	1
63	A Grid-Connected Multilevel Current Source Inverter and Its Protection for Grid-Disconnection. International Journal of Photoenergy, 2013, 2013, 1-10.	1.4	1
64	Test-bed to implement energy management strategies in PHEV. , 2016, , .		1
65	An Approach to Mitigate the Lateral Skid for Wheeled Vehicles. IEEE Latin America Transactions, 2018, 16, 1306-1313.	1.2	1
66	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.	1.2	1
67	Multi -Reconfigurable Power System for EV Applications. , 2006, , .		1
68	Linear control of Euler-Lagrange systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 278, 77-87.	0.9	0
69	Habituating control of quasi-resonant converters. , 0, , .		0
70	A DOUBLE-SCROLL ROSSLER SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 1815-1822.	0.7	0
71	Time and resonance patterns in chaotic piece-wise linear systems. Chaos, Solitons and Fractals, 2008, 37, 1511-1527.	2.5	0
72	A switched control for UAVs. , 2012, , .		0

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73	Control, Analysis, and Modeling of Vehicular Systems. Mathematical Problems in Engineering, 2014, 2014, 1-3.	0.6	0
74	Piecewise hysteresis-type control of a single phase active three-level rectifier with low THD. , 2014, , .		0
75	Design of a Test Bed for Teaching/Research Purposes in PHEVs. , 2018, , .		0
76	Dynamic Performance of the Electric Storage System as a Function of the Powertrain in EVs.. , 2018, , .		0
77	Editorial [in Spanish, Portugese and English]. IEEE Latin America Transactions, 2022, 20, 3-5.	1.2	0