

# Victor Alvarado Martinez

## List of Publications by Year in descending order

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36  
papers

914  
citations

471061  
17  
h-index

525886  
27  
g-index

36  
all docs

36  
docs citations

36  
times ranked

870  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling diffusive transport with a fractional derivative without singular kernel. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 447, 467-481.	1.2	93
2	Modeling and simulation of the fractional space-time diffusion equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 30, 115-127.	1.7	82
3	Classical and fractional-order modeling of equivalent electrical circuits for supercapacitors and batteries, energy management strategies for hybrid systems and methods for the state of charge estimation: A state of the art review. <i>Microelectronics Journal</i> , 2019, 85, 109-128.	1.1	78
4	Chaos in a Cancer Model via Fractional Derivatives with Exponential Decay and Mittag-Leffler Law. <i>Entropy</i> , 2017, 19, 681.	1.1	70
5	Atangana-Baleanu fractional derivative applied to electromagnetic waves in dielectric media. <i>Journal of Electromagnetic Waves and Applications</i> , 2016, 30, 1937-1952.	1.0	65
6	Triple pendulum model involving fractional derivatives with different kernels. <i>Chaos, Solitons and Fractals</i> , 2016, 91, 248-261.	2.5	60
7	New numerical approximation for solving fractional delay differential equations of variable order using artificial neural networks. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	54
8	Observer-based monitoring of heat exchangers. <i>ISA Transactions</i> , 2008, 47, 15-24.	3.1	46
9	Hybrid PEMFC-supercapacitor system: Modeling and energy management in energetic macroscopic representation. <i>Applied Energy</i> , 2017, 205, 1478-1494.	5.1	44
10	Neural network design and model reduction approach for black box nonlinear system identification with reduced number of parameters. <i>Neurocomputing</i> , 2013, 101, 170-180.	3.5	41
11	Computational cost improvement of neural network models in black box nonlinear system identification. <i>Neurocomputing</i> , 2015, 166, 96-108.	3.5	37
12	Active noise control of a duct using robust control theory. <i>IEEE Transactions on Control Systems Technology</i> , 2000, 8, 930-938.	3.2	32
13	Energy management control strategy to improve the FC/SC dynamic behavior on hybrid electric vehicles: A frequency based distribution. <i>Renewable Energy</i> , 2017, 105, 407-418.	4.3	32
14	Control of the Air Supply Subsystem in a PEMFC with Balance of Plant Simulation. <i>Sustainability</i> , 2017, 9, 73.	1.6	31
15	Performance monitoring of heat exchangers via adaptive observers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2007, 40, 392-405.	2.5	29
16	Balanced simplicityâ€“accuracy neural network model families for system identification. <i>Neural Computing and Applications</i> , 2015, 26, 171-186.	3.2	26
17	Control Structures Evaluation for a Salt Extractive Distillation Pilot Plant: Application to Bio-Ethanol Dehydration. <i>Energies</i> , 2017, 10, 1276.	1.6	17
18	Analysis of projectile motion: A comparative study using fractional operators with power law, exponential decay and Mittag-Leffler kernel. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	12

#	ARTICLE	IF	CITATIONS
19	Actuator Fault Tolerant Control Based on a MIMO-MPC: Application in a Double-Pipe Heat Exchanger. Chemical Engineering Communications, 2017, 204, 86-96.	1.5	11
20	Electromagnetic waves in conducting media described by a fractional derivative with non-singular kernel. Journal of Electromagnetic Waves and Applications, 2016, 30, 1493-1503.	1.0	10
21	SIMULATION AND CONTROL OF A PRESSURE SWING ADSORPTION PROCESS TO DEHYDRATE ETHANOL. Revista Mexicana De Ingeniera Quimica, 2018, 17, 1051-1081.	0.2	8
22	On a Robust Modeling of Piezo-Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	6
23	On the Possibility of the Jerk Derivative in Electrical Circuits. Advances in Mathematical Physics, 2016, 2016, 1-8.	0.4	6
24	A new robust estimation approach: An extended threshold M-estimator procedure. , 2011, , .		5
25	Fractional thermal diffusion and the heat equation. Open Physics, 2015, 13, .	0.8	5
26	L&lt;inf&gt;1&lt;/inf&gt; - L&lt;inf&gt;2&lt;/inf&gt; robust estimation in prediction error system identification. , 2009, , .		4
27	Analysis Of Subspace Identification Methods Based On The Estimation Of The System Matrices. IEEE Latin America Transactions, 2015, 13, 1068-1076.	1.2	3
28	An Alternative Approach to the Inference of the Extended Observability Matrix, and Its Relation With the PO-MOESP Algorithm. IEEE Transactions on Control Systems Technology, 2017, 25, 888-898.	3.2	2
29	System Identification with an Extended Threshold M-Estimator for Pseudo-Linear Models Structure. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 233-238.	0.4	1
30	1/2 Nonlinear system identification: A balanced accuracy/complexity neural network approach. , 2012, , .		1
31	2/2 Training time optimization for balanced accuracy/complexity neural network models. , 2012, , .		1
32	L/sub 1/ prediction error approach in system identification. , 2002, , .		1
33	A TEST-BASED METHODOLOGY FOR PARAMETER ESTIMATION FOR A PILOT PLANT DISTILLATION COLUMN. , 2007, , .		1
34	TEST-BASED PARAMETER ESTIMATION OF A BENCH-SCALE DISTILLATION COLUMN FOR PREDICTIVE CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 315-320.	0.4	0
35	Computing the extended observability matrix in the PO-MOESP algorithm: an alternative point of view. IEEE Latin America Transactions, 2016, 14, 314-319.	1.2	0
36	Decomposed Mean Euler-Poincar� Characteristic Model for a Non-Gaussian Physiological Random Field. IEEE Access, 2021, 9, 21180-21191.	2.6	0