

# Hector M Gutierrez

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

191  
citations

1307594

7  
h-index

1281871

11  
g-index

21  
all docs

21  
docs citations

21  
times ranked

185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust adaptive geometric tracking controls on SO(3) with an application to the attitude dynamics of a quadrotor UAV. , 2011, , .		62
2	5-DOF Real-Time Control of Active Electrodynamic MAGLEV. IEEE Transactions on Industrial Electronics, 2018, 65, 7468-7476.	7.9	25
3	Multimodal Fusion Object Detection System for Autonomous Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	1.6	19
4	Robust adaptive dynamic surface control for hypersonic vehicles. Nonlinear Dynamics, 2018, 93, 1109-1120.	5.2	12
5	A mesh-free Monte-Carlo method for simulation of three-dimensional transient heat conduction in a composite layered material with temperature dependent thermal properties. International Journal of Heat and Mass Transfer, 2018, 119, 533-541.	4.8	11
6	Non-Contact DC Electromagnetic Propulsion by Multipole Transversal Field: Numerical and Experimental Validation. IEEE Transactions on Magnetics, 2016, 52, 1-10.	2.1	9
7	Two-dimensional transient heat conduction in multi-layered composite media with temperature dependent thermal diffusivity using floating random walk Monte-Carlo method. International Journal of Heat and Mass Transfer, 2017, 115, 570-580.	4.8	8
8	Monitoring multi-axial vibrations of flexible rockets using sensor-instrumented reference strain structures. Aerospace Science and Technology, 2017, 71, 285-298.	4.8	7
9	Resonance Analysis of Fractional-Order Mathieu Oscillator. Journal of Computational and Nonlinear Dynamics, 2018, 13, .	1.2	7
10	Performance Characterization of the Smartphone Video Guidance Sensor as Vision-Based Positioning System. Sensors, 2020, 20, 5299.	3.8	7
11	Monte Carlo Method Simulation for Two-Dimensional Heat Transfer in Homogenous Medium and Proposed Application to Quench Propagation Simulation. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	5
12	Observer-based sliding mode control of a 6-DOF precision maglev positioning stage. , 2008, , .		4
13	Fuzzy terminal sliding-mode control for hypersonic vehicles. Journal of Intelligent and Fuzzy Systems, 2017, 33, 1831-1839.	1.4	4
14	Precise motion control of a hybrid magnetic suspension actuator with large travel. , 2008, , .		3
15	Proximity Operations and Three Degree-of-Freedom Maneuvers Using the Smartphone Video Guidance Sensor. Robotics, 2020, 9, 70.	3.5	3
16	Hypersonic Electromagnetic Launch by Constant-Flux Synchronous Motor. , 2006, , .		2
17	Effective floating volume: a highly parallelizable mesh-free approach for solving transient multiphysics problems in multi-scale geometries with non-linear material properties. Computational Mechanics, 2020, 65, 839-852.	4.0	2
18	Electromagnetic launch by linear quadrupole field. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
19	Hybrid Nonlinear State-Space Modeling Approach for a Dual Armature Generator. Electronics (Switzerland), 2021, 10, 1401.	3.1	0
20	A parallelizable mesh-free approach for simulation of heat conduction in ferromagnetic particulate materials under magnetic field effect. International Journal of Heat and Mass Transfer, 2021, 174, 121343.	4.8	0
21	Heat Dissipation Derivation and Optimization of the Fan-Out 3-D Package Model. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 1461-1470.	2.5	0