

# Enrique Cuan-Urquizo

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

743  
citations

623734

14  
h-index

526287

27  
g-index

35  
all docs

35  
docs citations

35  
times ranked

609  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the Mechanical Properties of FFF Structures and Materials: A Review on the Experimental, Computational and Theoretical Approaches. <i>Materials</i> , 2019, 12, 895.	2.9	161
2	Autonomous Underwater Vehicles: Localization, Navigation, and Communication for Collaborative Missions. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1256.	2.5	145
3	Use of additive manufacturing for the fabrication of cellular and lattice materials: a review. <i>Materials and Manufacturing Processes</i> , 2021, 36, 257-280.	4.7	52
4	Curved-Layered Additive Manufacturing of non-planar, parametric lattice structures. <i>Materials and Design</i> , 2018, 160, 949-963.	7.0	50
5	Towards the Development of 3D-Printed Food: A Rheological and Mechanical Approach. <i>Foods</i> , 2022, 11, 1191.	4.3	29
6	Flexural elasticity of woodpile lattice beams. <i>European Journal of Mechanics, A/Solids</i> , 2018, 67, 187-199.	3.7	25
7	Ex-vivo models of the Retinal Pigment Epithelium (RPE) in long-term culture faithfully recapitulate key structural and physiological features of native RPE. <i>Tissue and Cell</i> , 2017, 49, 447-460.	2.2	22
8	BÄ©zier-based metamaterials: Synthesis, mechanics and additive manufacturing. <i>Materials and Design</i> , 2021, 199, 109412.	7.0	22
9	Mechanical characterization of 3D printed, non-planar lattice structures under quasi-static cyclic loading. <i>Rapid Prototyping Journal</i> , 2020, 26, 707-717.	3.2	21
10	Kinematic analysis of the 3-CUP parallel mechanism. <i>Robotics and Computer-Integrated Manufacturing</i> , 2013, 29, 382-395.	9.9	20
11	Model-Free High Order Sliding Mode Control with Finite-Time Tracking for Unmanned Underwater Vehicles. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1836.	2.5	18
12	Effective Stiffness of Fused Deposition Modeling Infill Lattice Patterns Made of PLA-Wood Material. <i>Polymers</i> , 2022, 14, 337.	4.5	16
13	Evaluation of rheology and printability of 3D printing nutritious food with complex formulations. <i>Additive Manufacturing</i> , 2022, 58, 103030.	3.0	15
14	Neural Network Direct Control with Online Learning for Shape Memory Alloy Manipulators. <i>Sensors</i> , 2019, 19, 2576.	3.8	14
15	Additive manufacturing and mechanical properties of lattice-curved structures. <i>Rapid Prototyping Journal</i> , 2019, 25, 895-903.	3.2	14
16	Mechanical characterisation of additively manufactured material having lattice microstructure. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 74, 012004.	0.6	13
17	Compressive stiffness of staggered woodpile lattices: Mechanics, measurement, and scaling laws. <i>International Journal of Mechanical Sciences</i> , 2020, 187, 105932.	6.7	13
18	The compliance matrix method for the kinetostatic analysis of flexure-based compliant parallel mechanisms: Conventions and general forceâ€displacement cases. <i>Mechanism and Machine Theory</i> , 2022, 168, 104583.	4.5	13

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19	Experimental Validation of a Model-Free High-Order Sliding Mode Controller with Finite-Time Convergence for Trajectory Tracking of Autonomous Underwater Vehicles. <i>Sensors</i> , 2022, 22, 488.	3.8	11
20	A Review on Tailoring Stiffness in Compliant Systems, via Removing Material: Cellular Materials and Topology Optimization. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3538.	2.5	10
21	Algorithm for the Conformal 3D Printing on Non-Planar Tessellated Surfaces: Applicability in Patterns and Lattices. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7509.	2.5	9
22	Elastic response of lattice arc structures fabricated using curved-layered fused deposition modeling. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 1498-1508.	2.6	8
23	Curved layered fused filament fabrication: An overview. <i>Additive Manufacturing</i> , 2021, 47, 102354.	3.0	8
24	Colored 3D Path Extraction Based on Depth-RGB Sensor for Welding Robot Trajectory Generation. <i>Automation</i> , 2021, 2, 252-265.	2.3	6
25	Sensor Data Fusion for a Mobile Robot Using Neural Networks. <i>Sensors</i> , 2022, 22, 305.	3.8	6
26	Adaptable Bed for Curved-Layered Fused Deposition Modeling of Nonplanar Structures: A Proof of Concept. <i>3D Printing and Additive Manufacturing</i> , 2020, 7, 198-201.	2.9	5
27	Trajectory Planning for a Mobile Robot in a Dynamic Environment Using an LSTM Neural Network. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10689.	2.5	5
28	Scientometric analysis and critical review of fused deposition modeling in the plastic recycling context. , 2022, 2, 100008.		5
29	Model-Free High-Order Sliding Mode Controller for Station-Keeping of an Autonomous Underwater Vehicle in Manipulation Task: Simulations and Experimental Validation. <i>Sensors</i> , 2022, 22, 4347.	3.8	3
30	Tool path generation for sculptured surfaces with 4-axis machining. <i>MATEC Web of Conferences</i> , 2018, 249, 03004.	0.2	2
31	Numerical Characterization of the Mechanics of Bézier-Based Lattice-Beams. <i>Key Engineering Materials</i> , 0, 913, 301-306.	0.4	1
32	Compliant Cross-Axis Joints: A Tailoring Displacement Range Approach via Lattice Flexures and Machine Learning. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6635.	2.5	1
33	Mobility Analysis and Inverse Kinematics of a Novel 2R1T Parallel Manipulator. , 2011, , .		0
34	Design Of Interactive Learning Cyber-Physical Tools for Mechanical Design Engineering Courses. , 2020, , .		0
35	3D-Printed Snacks. , 2022, , 113-130.		0