

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	The compliance matrix method for the kinetostatic analysis of flexure-based compliant parallel mechanisms: Conventions and general forceâ€“displacement cases. Mechanism and Machine Theory, 2022, 168, 104583.	4.5	13
2	Experimental Validation of a Model-Free High-Order Sliding Mode Controller with Finite-Time Convergence for Trajectory Tracking of Autonomous Underwater Vehicles. Sensors, 2022, 22, 488.	3.8	11
3	Effective Stiffness of Fused Deposition Modeling Infill Lattice Patterns Made of PLA-Wood Material. Polymers, 2022, 14, 337.	4.5	16
4	3D-Printed Snacks. , 2022, , 113-130.		0
5	Sensor Data Fusion for a Mobile Robot Using Neural Networks. Sensors, 2022, 22, 305.	3.8	6
6	Towards the Development of 3D-Printed Food: A Rheological and Mechanical Approach. Foods, 2022, 11, 1191.	4.3	29
7	Scientometric analysis and critical review of fused deposition modeling in the plastic recycling context. , 2022, 2, 100008.		5
8	Model-Free High-Order Sliding Mode Controller for Station-Keeping of an Autonomous Underwater Vehicle in Manipulation Task: Simulations and Experimental Validation. Sensors, 2022, 22, 4347.	3.8	3
9	Compliant Cross-Axis Joints: A Tailoring Displacement Range Approach via Lattice Flexures and Machine Learning. Applied Sciences (Switzerland), 2022, 12, 6635.	2.5	1
10	Evaluation of rheology and printability of 3D printing nutritious food with complex formulations. Additive Manufacturing, 2022, 58, 103030.	3.0	15
11	Use of additive manufacturing for the fabrication of cellular and lattice materials: a review. Materials and Manufacturing Processes, 2021, 36, 257-280.	4.7	52
12	BÃ©zier-based metamaterials: Synthesis, mechanics and additive manufacturing. Materials and Design, 2021, 199, 109412.	7.0	22
13	Elastic response of lattice arc structures fabricated using curved-layered fused deposition modeling. Mechanics of Advanced Materials and Structures, 2021, 28, 1498-1508.	2.6	8
14	Model-Free High Order Sliding Mode Control with Finite-Time Tracking for Unmanned Underwater Vehicles. Applied Sciences (Switzerland), 2021, 11, 1836.	2.5	18
15	A Review on Tailoring Stiffness in Compliant Systems, via Removing Material: Cellular Materials and Topology Optimization. Applied Sciences (Switzerland), 2021, 11, 3538.	2.5	10
16	Algorithm for the Conformal 3D Printing on Non-Planar Tessellated Surfaces: Applicability in Patterns and Lattices. Applied Sciences (Switzerland), 2021, 11, 7509.	2.5	9
17	Curved layered fused filament fabrication: An overview. Additive Manufacturing, 2021, 47, 102354.	3.0	8
18	Colored 3D Path Extraction Based on Depth-RGB Sensor for Welding Robot Trajectory Generation. Automation, 2021, 2, 252-265.	2.3	6

#	ARTICLE	IF	CITATIONS
19	Trajectory Planning for a Mobile Robot in a Dynamic Environment Using an LSTM Neural Network. Applied Sciences (Switzerland), 2021, 11, 10689.	2.5	5
20	Mechanical characterization of 3D printed, non-planar lattice structures under quasi-static cyclic loading. Rapid Prototyping Journal, 2020, 26, 707-717.	3.2	21
21	Design Of Interactive Learning Cyber-Physical Tools for Mechanical Design Engineering Courses. , 2020, , .		0
22	Adaptable Bed for Curved-Layered Fused Deposition Modeling of Nonplanar Structures: A Proof of Concept. 3D Printing and Additive Manufacturing, 2020, 7, 198-201.	2.9	5
23	Compressive stiffness of staggered woodpile lattices: Mechanics, measurement, and scaling laws. International Journal of Mechanical Sciences, 2020, 187, 105932.	6.7	13
24	Autonomous Underwater Vehicles: Localization, Navigation, and Communication for Collaborative Missions. Applied Sciences (Switzerland), 2020, 10, 1256.	2.5	145
25	Neural Network Direct Control with Online Learning for Shape Memory Alloy Manipulators. Sensors, 2019, 19, 2576.	3.8	14
26	Characterization of the Mechanical Properties of FFF Structures and Materials: A Review on the Experimental, Computational and Theoretical Approaches. Materials, 2019, 12, 895.	2.9	161
27	Additive manufacturing and mechanical properties of lattice-curved structures. Rapid Prototyping Journal, 2019, 25, 895-903.	3.2	14
28	Flexural elasticity of woodpile lattice beams. European Journal of Mechanics, A/Solids, 2018, 67, 187-199.	3.7	25
29	Tool path generation for sculptured surfaces with 4-axis machining. MATEC Web of Conferences, 2018, 249, 03004.	0.2	2
30	Curved-Layered Additive Manufacturing of non-planar, parametric lattice structures. Materials and Design, 2018, 160, 949-963.	7.0	50
31	Ex-vivo models of the Retinal Pigment Epithelium (RPE) in long-term culture faithfully recapitulate key structural and physiological features of native RPE. Tissue and Cell, 2017, 49, 447-460.	2.2	22
32	Mechanical characterisation of additively manufactured material having lattice microstructure. IOP Conference Series: Materials Science and Engineering, 2015, 74, 012004.	0.6	13
33	Kinematic analysis of the 3-CUP parallel mechanism. Robotics and Computer-Integrated Manufacturing, 2013, 29, 382-395.	9.9	20
34	Mobility Analysis and Inverse Kinematics of a Novel 2R1T Parallel Manipulator. , 2011, , .		0
35	Numerical Characterization of the Mechanics of Bézier-Based Lattice-Beams. Key Engineering Materials, 0, 913, 301-306.	0.4	1