

Oscar Martínez-Romero

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

848
citations

567144

15
h-index

610775

24
g-index

65
all docs

65
docs citations

65
times ranked

690
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of a magnetorheological PDMS elastomer with carbonyl iron particles. <i>Polymer Testing</i> , 2017, 57, 78-86.	2.3	76
2	Fabrication and Characterization of Isotropic and Anisotropic Magnetorheological Elastomers, Based on Silicone Rubber and Carbonyl Iron Microparticles. <i>Polymers</i> , 2018, 10, 1343.	2.0	51
3	Influence of PEEK Coating on Hip Implant Stress Shielding: A Finite Element Analysis. <i>Computational and Mathematical Methods in Medicine</i> , 2016, 2016, 1-10.	0.7	47
4	Investigation of residual stress distribution in single point incremental forming of aluminum parts by X-ray diffraction technique. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 2571-2580.	1.5	36
5	Experimental Investigation of the Magnetorheological Behavior of PDMS Elastomer Reinforced with Iron Micro/Nanoparticles. <i>Polymers</i> , 2017, 9, 696.	2.0	34
6	Influence of the Epoxy Resin Process Parameters on the Mechanical Properties of Produced Bidirectional [$\pm 45^\circ$] Carbon/Epoxy Woven Composites. <i>Polymers</i> , 2021, 13, 1273.	2.0	34
7	He's frequency-amplitude formulation for nonlinear oscillators using Jacobi elliptic functions. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2020, 39, 1216-1223.	1.3	32
8	Enhanced He's frequency-amplitude formulation for nonlinear oscillators. <i>Results in Physics</i> , 2020, 19, 103626.	2.0	26
9	Semi-Active Magnetorheological Damper Device for Chatter Mitigation during Milling of Thin-Floor Components. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5313.	1.3	25
10	EQUIVALENT POWER-FORM REPRESENTATION OF THE FRACTAL TODA OSCILLATOR. <i>Fractals</i> , 2021, 29, 2150034.	1.8	24
11	Modeling Percolation in Polymer Nanocomposites by Stochastic Microstructuring. <i>Materials</i> , 2015, 8, 6697-6718.	1.3	23
12	Approximate Solution for the Duffing-Harmonic Oscillator by the Enhanced Cubication Method. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-12.	0.6	21
13	Accurate Solutions of Conservative Nonlinear Oscillators by the Enhanced Cubication Method. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-9.	0.6	21
14	Investigation of the Effect of Carbonyl Iron Micro-Particles on the Mechanical and Rheological Properties of Isotropic and Anisotropic MREs: Constitutive Magneto-Mechanical Material Model. <i>Polymers</i> , 2019, 11, 1705.	2.0	21
15	On the Rule of Mixtures for Predicting Stress-Softening and Residual Strain Effects in Biological Tissues and Biocompatible Materials. <i>Materials</i> , 2014, 7, 441-456.	1.3	17
16	A fractal model for current generation in porous electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2021, 880, 114883.	1.9	17
17	Investigation of the Equivalent Representation Form of Strongly Damped Nonlinear Oscillators by a Nonlinear Transformation Approach. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-7.	0.4	15
18	ANALYTICAL SOLUTION OF THE FRACTAL CUBIC-QUINTIC DUFFING EQUATION. <i>Fractals</i> , 2021, 29, 2150080.	1.8	15

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19	Influence of Epoxy Resin Curing Kinetics on the Mechanical Properties of Carbon Fiber Composites. <i>Polymers</i> , 2022, 14, 1100.	2.0	15
20	Experimental Determination of Residual Stresses Generated by Single Point Incremental Forming of AlSi10Mg Sheets Produced Using SLM Additive Manufacturing Process. <i>Materials</i> , 2018, 11, 2542.	1.3	14
21	EQUIVALENT POWER-FORM TRANSFORMATION FOR FRACTAL BRATUÁ€™S EQUATION. <i>Fractals</i> , 2021, 29, 2150019.	1.8	14
22	Fractal equation of motion of a non-Gaussian polymer chain: investigating its dynamic fractal response using an ancient Chinese algorithm.. <i>Journal of Mathematical Chemistry</i> , 2022, 60, 461-473.	0.7	12
23	Equivalent representation form in the sense of Lyapunov, of nonlinear forced, damped second-order differential equations. <i>Nonlinear Dynamics</i> , 2018, 92, 2143-2158.	2.7	11
24	Lyapunov Equivalent Representation Form of Forced, Damped, Nonlinear, Two Degree-of-Freedom Systems. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 649.	1.3	11
25	DYNAMICS RESPONSE OF THE FORCED FANGZHU FRACTAL DEVICE FOR WATER COLLECTION FROM AIR. <i>Fractals</i> , 2021, 29, .	1.8	11
26	Identifying Polymeric Constitutive Equations for Incremental Sheet Forming Modelling. <i>Procedia Engineering</i> , 2014, 81, 2292-2297.	1.2	10
27	Broadening the frequency bandwidth of a finite extensibility nonlinear vibration absorber by exploiting its internal resonances. <i>Nonlinear Dynamics</i> , 2020, 102, 1239-1270.	2.7	10
28	Spark Plasma Sintering of Aluminum-Based Powders Reinforced with Carbon Nanotubes: Investigation of Electrical Conductivity and Hardness Properties. <i>Materials</i> , 2021, 14, 373.	1.3	10
29	Levator ani deformation during the second stage of labour. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 501-508.	1.0	9
30	Uncharted Stable Peninsula for Multivariable Milling Tools by High-Order Homotopy Perturbation Method. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7869.	1.3	9
31	Determination of the frequency-amplitude response curves of undamped forced DuffingÁ€™s oscillators using an ancient Chinese algorithm. <i>Results in Physics</i> , 2021, 24, 104085.	2.0	9
32	A Mathematical Dimensional Model for Predicting Bulk Density of Inconel 718 Parts Produced by Selective Laser Melting. <i>Materials</i> , 2021, 14, 512.	1.3	9
33	Application of the elliptic balance method to a nonlinear singular oscillator. <i>Applied Mathematics and Computation</i> , 2012, 218, 11112-11117.	1.4	8
34	Energy Method to Obtain Approximate Solutions of Strongly Nonlinear Oscillators. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-7.	0.6	8
35	The influence of a transversal crack on rotor nonlinear transient response. <i>Nonlinear Dynamics</i> , 2017, 90, 671-682.	2.7	8
36	Study of Friction and Wear Effects in Aluminum Parts Manufactured via Single Point Incremental Forming Process Using Petroleum and Vegetable Oil-Based Lubricants. <i>Materials</i> , 2021, 14, 3973.	1.3	8

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37	AN EFFICIENT ANCIENT CHINESE ALGORITHM TO INVESTIGATE THE DYNAMICS RESPONSE OF A FRACTAL MICROGRAVITY FORCED OSCILLATOR. <i>Fractals</i> , 2021, 29, 2150144.	1.8	8
38	Exact steady-state solution of fractals damped, and forced systems. <i>Results in Physics</i> , 2021, 28, 104580.	2.0	8
39	Stress-Softening and Residual Strain Effects in Suture Materials. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-9.	1.0	7
40	Design Concepts of Polycarbonate-Based Intervertebral Lumbar Cages: Finite Element Analysis and Compression Testing. <i>Applied Bionics and Biomechanics</i> , 2016, 2016, 1-9.	0.5	7
41	Design, fabrication, and characterization of polycaprolactone (PCL)-TiO ₂ -collagenase nanofiber mesh scaffolds by Forcespinning. <i>MRS Communications</i> , 2019, 9, 390-397.	0.8	7
42	Enhanced Mathematical Model for Producing Highly Dense Metallic Components through Selective Laser Melting. <i>Materials</i> , 2021, 14, 1571.	1.3	7
43	A power-form method for dynamic systems: investigating the steady-state response of strongly nonlinear oscillators by their equivalent Duffing-type equation. <i>Nonlinear Dynamics</i> , 2021, 104, 3065-3075.	2.7	7
44	Investigation of the fractal response of a Nonlinear Packaging System. <i>Fractals</i> , 0, , .	1.8	7
45	Recent strategy to study fractal-order viscoelastic polymer materials using an ancient Chinese algorithm and He's formulation. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2022, 41, 842-851.	1.3	7
46	Stability Predictions for End Milling Operations With a Nonlinear Cutting Force Model. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2009, 131, .	1.3	6
47	A mathematical dimensionless model for electrohydrodynamics. <i>Results in Physics</i> , 2021, 25, 104256.	2.0	6
48	New analytical solution of the fractal anharmonic oscillator using an ancient Chinese algorithm: Investigating how plasma frequency changes with fractal parameter values. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2022, 41, 833-841.	1.3	6
49	Micro-injection Moulding of Polymer Locking Ligation Systems. <i>Procedia CIRP</i> , 2016, 49, 1-7.	1.0	5
50	Enhancement of Electrical Conductivity of Aluminum-Based Nanocomposite Produced by Spark Plasma Sintering. <i>Nanomaterials</i> , 2021, 11, 1150.	1.9	5
51	INVESTIGATION OF THE STEADY-STATE SOLUTION OF THE FRACTAL FORCED DUFFING'S OSCILLATOR USING AN ANCIENT CHINESE ALGORITHM. <i>Fractals</i> , 2021, 29, 2150133.	1.8	5
52	Enhancing Electrical and Thermal Properties of Al6061 Parts by Electrophoresis Deposition of Multi-Walled Carbon Nanotubes. <i>Coatings</i> , 2020, 10, 656.	1.2	4
53	Soft Tissue Hybrid Model for Real-Time Simulations. <i>Polymers</i> , 2022, 14, 1407.	2.0	4
54	A Transformation Method for Solving Conservative Nonlinear Two-Degree-of-Freedom Systems. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-14.	0.6	3

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55	Investigating the Mullins Effect and Energy Dissipation in Magnetorheological Polyurethane Elastomers. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5318.	1.8	3
56	Investigation of the Mechanical Properties of Parts Fabricated with Ultrasonic Micro Injection Molding Process Using Polypropylene Recycled Material. <i>Polymers</i> , 2020, 12, 2033.	2.0	3
57	Study of the Evolution of the Plastic Zone and Residual Stress in a Notched T-6061 Aluminum Sample. <i>Materials</i> , 2022, 15, 1546.	1.3	3
58	Transient and Steady-State Responses of an Asymmetric Nonlinear Oscillator. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-9.	0.6	2
59	Tool Dynamics During Single Point Incremental Forming Process. <i>Procedia Engineering</i> , 2014, 81, 2286-2291.	1.2	2
60	ELUCIDATING THE FRACTAL NATURE OF POWDER BED IN SELECTIVE LASER MELTING OF METALLIC COMPONENTS. <i>Fractals</i> , 2022, 30, .	1.8	2
61	Equivalent Representation Form of Oscillators with Elastic and Damping Nonlinear Terms. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-11.	0.6	1
62	A Hybrid Superhydrophobic/Hydrophilic Surface Based on SiO ₂ Nanoparticles over a Clay Substrate for Enhanced Dew Yield Potential. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1526.	1.3	1
63	Spark Plasma Sintering of Aluminum Nanocomposite Powders: Recent Strategy to Translate from Lab-Scale to Mass Production. <i>Nanomaterials</i> , 2021, 11, 3372.	1.9	1
64	Equivalent Mathematical Representation of Second-Order Damped, Driven Nonlinear Oscillators. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-11.	0.6	0
65	A Nonmonotonous Damage Model to Characterize Mullins and Residual Strain Effects of Rubber Strings Subjected to Transverse Vibrations. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-9.	1.0	0