

Je Ribeiro

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

801
citations

623734

14
h-index

526287

27
g-index

44
all docs

44
docs citations

44
times ranked

387
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Properties and Applications of PDMS for Biomedical Engineering: A Review. <i>Journal of Functional Biomaterials</i> , 2022, 13, 2. | 4.4 | 216 |
| 2 | Polydimethylsiloxane Composites Characterization and Its Applications: A Review. <i>Polymers</i> , 2021, 13, 4258. | 4.5 | 94 |
| 3 | Study of PDMS characterization and its applications in biomedicine: A review. <i>Journal of Mechanical Engineering and Biomechanics</i> , 2019, 4, 1-9. | 0.7 | 88 |
| 4 | Optimization of machining parameters to improve the surface quality. <i>Procedia Structural Integrity</i> , 2017, 5, 355-362. | 0.8 | 48 |
| 5 | Optimization of Cutting Parameters to Minimize the Surface Roughness in the End Milling Process Using the Taguchi Method. <i>Periodica Polytechnica, Mechanical Engineering</i> , 2017, 61, 30-35. | 1.4 | 29 |
| 6 | 3D manufacturing of intracranial aneurysm biomodels for flow visualizations: Low cost fabrication processes. <i>Mechanics Research Communications</i> , 2020, 107, 103535. | 1.8 | 25 |
| 7 | Wall expansion assessment of an intracranial aneurysm model by a 3D Digital Image Correlation System. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 88, 262-270. | 5.0 | 24 |
| 8 | In vitro Biomodels in Stenotic Arteries to Perform Blood Analogues Flow Visualizations and Measurements: A Review. <i>Open Biomedical Engineering Journal</i> , 2020, 14, 87-102. | 0.5 | 24 |
| 9 | Mechanical Characterization of PDMS with Different Mixing Ratios. <i>Procedia Structural Integrity</i> , 2022, 37, 383-388. | 0.8 | 24 |
| 10 | Recent Developments on the Thermal Properties, Stability and Applications of Nanofluids in Machining, Solar Energy and Biomedicine. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1115. | 2.5 | 23 |
| 11 | Polydimethylsiloxane mechanical properties: A systematic review. <i>AIMS Materials Science</i> , 2021, 8, 952-973. | 1.4 | 20 |
| 12 | Biomechanical analysis of PDMS channels using different hyperelastic numerical constitutive models. <i>Mechanics Research Communications</i> , 2018, 90, 26-33. | 1.8 | 19 |
| 13 | Measurement of Residual Stresses with Optical Techniques. <i>Strain</i> , 2009, 45, 123-130. | 2.4 | 16 |
| 14 | Mechanical analysis of PDMS material using biaxial test. <i>AIMS Materials Science</i> , 2019, 6, 97-110. | 1.4 | 16 |
| 15 | The Contour Method for Residual Stress Determination Applied to an AA6082-T6 Friction Stir Butt Weld. <i>Materials Science Forum</i> , 0, 681, 177-181. | 0.3 | 15 |
| 16 | Moiré Interferometry Assessment of Residual Stress Variation in Depth on a Shot Peened Surface. <i>Strain</i> , 2011, 47, e542. | 2.4 | 14 |
| 17 | Characterization of Shear Strain on PDMS: Numerical and Experimental Approaches. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3322. | 2.5 | 13 |
| 18 | Composite Material of PDMS with Interchangeable Transmittance: Study of Optical, Mechanical Properties and Wettability. <i>Journal of Composites Science</i> , 2021, 5, 110. | 3.0 | 12 |

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|----|---|-----|-----------|
| 19 | Interferometric Techniques in Structural Damage Identification. Shock and Vibration, 2012, 19, 835-844. | 0.6 | 11 |
| 20 | Manual and Automatic Image Analysis Segmentation Methods for Blood Flow Studies in Microchannels. Micromachines, 2021, 12, 317. | 2.9 | 9 |
| 21 | Parametric Optimization of the GMAW Welding Process in Thin Thickness of Austenitic Stainless Steel by Taguchi Method. Applied Sciences (Switzerland), 2021, 11, 8742. | 2.5 | 9 |
| 22 | Experimental and numerical study to minimize the residual stresses in welding of 6082-T6 aluminum alloy. AIMS Materials Science, 2021, 8, 271-282. | 1.4 | 8 |
| 23 | Fluid Flow and Structural Numerical Analysis of a Cerebral Aneurysm Model. Fluids, 2022, 7, 100. | 1.7 | 6 |
| 24 | A hybrid method to characterise the mechanical behaviour of biological hyper-elastic tissues. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, 5, 157-164. | 1.9 | 4 |
| 25 | Effect of Welding Orientation in Angular Distortion in Multipass GMAW. Journal of Manufacturing and Materials Processing, 2021, 5, 63. | 2.2 | 4 |
| 26 | Modeling and trade-off analysis of a capacitive silicon Mach-Zehnder modulator for telecom applications. , 2018, , . | | 3 |
| 27 | Optimization of Robotized Welding in Aluminum Alloys with Pulsed Transfer Mode Using the Taguchi Method. Proceedings (mdpi), 2018, 2, 426. | 0.2 | 3 |
| 28 | Robotic Welding Tests MIG Standard and CMT+P in Aluminum Alloy 6082-T6 for Optimization of Penetration, Cord Width and Reinforcement. Proceedings (mdpi), 2018, 2, 425. | 0.2 | 3 |
| 29 | Characterization of coating processes in MoirÃ© Diffraction Gratings for strain measurements. Optics and Laser Technology, 2013, 47, 159-165. | 4.6 | 2 |
| 30 | Welding Process Automation of Aluminum Alloys for the Transport Industry: An Industrial Robotics Approach. Lecture Notes in Electrical Engineering, 2021, , 72-81. | 0.4 | 2 |
| 31 | Unwrapping techniques for speckle phase maps: study and comparison of the performance of principal methods. EPJ Web of Conferences, 2010, 6, 10006. | 0.3 | 1 |
| 32 | Assessment of the Displacement Field Along a Surface Crack in a Flat Plate Using Optical Techniques. Experimental Techniques, 2015, 39, 10-20. | 1.5 | 1 |
| 33 | Estimation of the dynamic modal parameters of a small-scaled mockup. Procedia Structural Integrity, 2017, 5, 347-354. | 0.8 | 1 |
| 34 | Micromechanical Analysis of a Bio-Sandwich Application for Cylinder under Pressure. Journal of Composites Science, 2022, 6, 69. | 3.0 | 1 |
| 35 | PU tensile tests: conventional and digital image correlation analysis.. Procedia Structural Integrity, 2022, 37, 389-396. | 0.8 | 1 |
| 36 | The measurement of the modal strain fields using digital shearography. EPJ Web of Conferences, 2010, 6, 33002. | 0.3 | 0 |

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|----|---|-----|-----------|
| 37 | Optical Fibers on Medical Instrumentation. International Journal of Biomedical and Clinical Engineering, 2013, 2, 23-36. | 0.2 | 0 |
| 38 | Numerical Characterization of a Hyperelastic Material to Shear Stress. Lecture Notes in Computational Vision and Biomechanics, 2019, , 661-670. | 0.5 | 0 |
| 39 | EXPERIENCING THE TECHNICAL-SCIENTIFIC PRODUCTION PROCESS WITH MASTER'S STUDENTS. , 2021, , . | | 0 |
| 40 | Low-Cost Multifunctional Vacuum Chamber for Manufacturing PDMS Based Composites. Machines, 2022, 10, 92. | 2.2 | 0 |