

Sergio Munoz

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

695
citations

686830

13
h-index

580395

25
g-index

25
all docs

25
docs citations

25
times ranked

613
citing authors

#	ARTICLE	IF	CITATIONS
1	On the use of multiaxial fatigue criteria for fretting fatigue life assessment. <i>International Journal of Fatigue</i> , 2008, 30, 32-44.	2.8	118
2	Temperature and stress fields evolution during spark plasma sintering processes. <i>Journal of Materials Science</i> , 2010, 45, 6528-6539.	1.7	81
3	On the influence of space holder in the development of porous titanium implants: Mechanical, computational and biological evaluation. <i>Materials Characterization</i> , 2015, 108, 68-78.	1.9	56
4	Porous Titanium for Biomedical Applications: Evaluation of the Conventional Powder Metallurgy Frontier and Space-Holder Technique. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 982.	1.3	56
5	Application of fracture mechanics to estimate fretting fatigue endurance curves. <i>Engineering Fracture Mechanics</i> , 2007, 74, 2168-2186.	2.0	43
6	Parametric investigation of temperature distribution in field activated sintering apparatus. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 65, 127-140.	1.5	40
7	Multibody model of railway vehicles with weakly coupled vertical and lateral dynamics. <i>Mechanical Systems and Signal Processing</i> , 2019, 115, 570-592.	4.4	40
8	Propagation in fretting fatigue from a surface defect. <i>Tribology International</i> , 2006, 39, 1149-1157.	3.0	36
9	Prediction of the crack extension under fretting wear loading conditions. <i>International Journal of Fatigue</i> , 2006, 28, 1769-1779.	2.8	32
10	Wheel-rail contact force measurement using strain gauges and distance lasers on a scaled railway vehicle. <i>Mechanical Systems and Signal Processing</i> , 2020, 138, 106555.	4.4	27
11	Artificial neural networks applied to the measurement of lateral wheel-rail contact force: A comparison with a harmonic cancellation method. <i>Mechanism and Machine Theory</i> , 2020, 153, 103968.	2.7	26
12	A Track Geometry Measuring System Based on Multibody Kinematics, Inertial Sensors and Computer Vision. <i>Sensors</i> , 2021, 21, 683.	2.1	16
13	Different models for simulation of mechanical behaviour of porous materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 80, 88-96.	1.5	15
14	Estimation of Lateral Track Irregularity Through Kalman Filtering Techniques. <i>IEEE Access</i> , 2021, 9, 60010-60025.	2.6	15
15	An alternative procedure to measure railroad track irregularities. Application to a scaled track. Measurement: <i>Journal of the International Measurement Confederation</i> , 2019, 137, 417-427.	2.5	13
16	Influence of the Compaction Pressure and Sintering Temperature on the Mechanical Properties of Porous Titanium for Biomedical Applications. <i>Metals</i> , 2019, 9, 1249.	1.0	12
17	Estimation of lateral track irregularity using a Kalman filter. Experimental validation. <i>Journal of Sound and Vibration</i> , 2021, 504, 116122.	2.1	11
18	Measurement of railroad track irregularities using an automated recording vehicle. Measurement: <i>Journal of the International Measurement Confederation</i> , 2021, 183, 109765.	2.5	11

#	ARTICLE	IF	CITATIONS
19	Experimental measurement of track irregularities using a scaled track recording vehicle and Kalman filtering techniques. <i>Mechanical Systems and Signal Processing</i> , 2022, 169, 108625.	4.4	9
20	Application and Experimental Validation of a Multibody Model with Weakly Coupled Lateral and Vertical Dynamics to a Scaled Railway Vehicle. <i>Sensors</i> , 2020, 20, 3700.	2.1	8
21	Influence of the Initiation Length in Predictions of Life in Fretting Fatigue. <i>Strain</i> , 2011, 47, e283.	1.4	7
22	Fracture mechanics approach to fretting fatigue behaviour of coated aluminium alloy components. <i>Journal of Strain Analysis for Engineering Design</i> , 2014, 49, 66-75.	1.0	7
23	Analysis of crack evolution in fretting fatigue with spherical contact. <i>Journal of Strain Analysis for Engineering Design</i> , 2009, 44, 503-515.	1.0	6
24	Validation of multibody modeling and simulation using an instrumented bicycle: from the computer to the road. <i>Multibody System Dynamics</i> , 2018, 43, 297-319.	1.7	6
25	Thermal Conductivity of Powder Aggregates and Porous Compacts. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 4532-4538.	1.1	4