# Sergio Munoz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5269079/publications.pdf

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|---|---|---|---|
| 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 | Experimental measurement of track irregularities using a scaled track recording vehicle and Kalman filtering techniques. Mechanical Systems and Signal Processing, 2022, 169, 108625. | 4.4 | 9 |
| 2 | A Track Geometry Measuring System Based on Multibody Kinematics, Inertial Sensors and Computer Vision. Sensors, 2021, 21, 683. | 2.1 | 16 |
| 3 | Estimation of Lateral Track Irregularity Through Kalman Filtering Techniques. IEEE Access, 2021, 9, 60010-60025. | 2.6 | 15 |
| 4 | Estimation of lateral track irregularity using a Kalman filter. Experimental validation. Journal of Sound and Vibration, 2021, 504, 116122. | 2.1 | 11 |
| 5 | Measurement of railroad track irregularities using an automated recording vehicle. Measurement: Journal of the International Measurement Confederation, 2021, 183, 109765. | 2.5 | 11 |
| 6 | Wheel-rail contact force measurement using strain gauges and distance lasers on a scaled railway vehicle. Mechanical Systems and Signal Processing, 2020, 138, 106555. | 4.4 | 27 |
| 7 | Application and Experimental Validation of a Multibody Model with Weakly Coupled Lateral and Vertical Dynamics to a Scaled Railway Vehicle. Sensors, 2020, 20, 3700. | 2.1 | 8 |
| 8 | Artificial neural networks applied to the measurement of lateral wheel-rail contact force: A comparison with a harmonic cancellation method. Mechanism and Machine Theory, 2020, 153, 103968. | 2.7 | 26 |
| 9 | Multibody model of railway vehicles with weakly coupled vertical and lateral dynamics. Mechanical Systems and Signal Processing, 2019, 115, 570-592. | 4.4 | 40 |
| 10 | An alternative procedure to measure railroad track irregularities. Application to a scaled track. Measurement: Journal of the International Measurement Confederation, 2019, 137, 417-427. | 2.5 | 13 |
| 11 | Porous Titanium for Biomedical Applications: Evaluation of the Conventional Powder Metallurgy Frontier and Space-Holder Technique. Applied Sciences (Switzerland), 2019, 9, 982. | 1.3 | 56 |
| 12 | Influence of the Compaction Pressure and Sintering Temperature on the Mechanical Properties of Porous Titanium for Biomedical Applications. Metals, 2019, 9, 1249. | 1.0 | 12 |
| 13 | Validation of multibody modeling and simulation using an instrumented bicycle: from the computer to the road. Multibody System Dynamics, 2018, 43, 297-319. | 1.7 | 6 |
| 14 | Different models for simulation of mechanical behaviour of porous materials. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 80, 88-96. | 1.5 | 15 |
| 15 | On the influence of space holder in the development of porous titanium implants: Mechanical, computational and biological evaluation. Materials Characterization, 2015, 108, 68-78. | 1.9 | 56 |
| 16 | Fracture mechanics approach to fretting fatigue behaviour of coated aluminium alloy components. Journal of Strain Analysis for Engineering Design, 2014, 49, 66-75. | 1.0 | 7 |
| 17 | Parametric investigation of temperature distribution in field activated sintering apparatus. International Journal of Advanced Manufacturing Technology, 2013, 65, 127-140. | 1.5 | 40 |
| 18 | Thermal Conductivity of Powder Aggregates and Porous Compacts. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4532-4538. | 1.1 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Influence of the Initiation Length in Predictions of Life in Fretting Fatigue. Strain, 2011, 47, e283. | 1.4 | 7 |
| 20 | Temperature and stress fields evolution during spark plasma sintering processes. Journal of Materials Science, 2010, 45, 6528-6539. | 1.7 | 81 |
| 21 | Analysis of crack evolution in fretting fatigue with spherical contact. Journal of Strain Analysis for Engineering Design, 2009, 44, 503-515. | 1.0 | 6 |
| 22 | On the use of multiaxial fatigue criteria for fretting fatigue life assessment. International Journal of Fatigue, 2008, 30, 32-44. | 2.8 | 118 |
| 23 | Application of fracture mechanics to estimate fretting fatigue endurance curves. Engineering Fracture Mechanics, 2007, 74, 2168-2186. | 2.0 | 43 |
| 24 | Prediction of the crack extension under fretting wear loading conditions. International Journal of Fatigue, 2006, 28, 1769-1779. | 2.8 | 32 |
| 25 | Propagation in fretting fatigue from a surface defect. Tribology International, 2006, 39, 1149-1157. | 3.0 | 36 |