Daniel Garcia-Vallejo

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Nonlinear solutions for the steady state oscillations of a clamped–free rotating beam. European Journal of Mechanics, A/Solids, 2022, 91, 104413. | 2.1 | 5 |
| 2 | Linear Stability Analysis of a Bicycle Multibody Model with Toroidal Wheels. , 2022, , 477-487. | | 2 |
| 3 | Experimental validation of a constant-force mechanism and analysis of its performance with a calibrated multibody model. Mechanism and Machine Theory, 2022, 173, 104819. | 2.7 | 4 |
| 4 | On the theory and application of absolute coordinates-based multibody modelling of the rigid–flexible coupled dynamics of a deep-sea ROV-TMS (tether management system) integrated model. Ocean Engineering, 2022, 258, 111748. | 1.9 | 14 |
| 5 | Analytical and numerical study of the influence of different support types in the nonlinear vibrations of beams. European Journal of Mechanics, A/Solids, 2021, 85, 104113. | 2.1 | 10 |
| 6 | Using simple estimates for the flexural stiffness of thick FDM beams based on sandwich beam models. Rapid Prototyping Journal, 2021, 27, 120-130. | 1.6 | 1 |
| 7 | Design of trajectories and torques by parameter optimization for the bench press exercise on a Smith machine. Mechanism and Machine Theory, 2021, 155, 104089. | 2.7 | 3 |
| 8 | Linearization approaches for general multibody systems validated through stability analysis of a benchmark bicycle model. Nonlinear Dynamics, 2021, 103, 557-580. | 2.7 | 15 |
| 9 | Stability analysis of a waveboard multibody model with toroidal wheels. Multibody System Dynamics, 2021, 53, 173-203. | 1.7 | 2 |
| 10 | Linear stability analysis of nonholonomic multibody systems. International Journal of Mechanical Sciences, 2021, 198, 106392. | 3.6 | 5 |
| 11 | Thermo-mechanical assessment of the JT-60SA fast-ion loss detector. Fusion Engineering and Design, 2021, 167, 112304. | 1.0 | 4 |
| 12 | A New Electromechanical Analogy Approach Based on Electrostatic Coupling for Vertical Dynamic Analysis of Planar Vehicle Models. IEEE Access, 2021, 9, 119492-119502. | 2.6 | 8 |
| 13 | Dynamic modeling of a radially multilayered tether cable for a remotely-operated underwater vehicle (ROV) based on the absolute nodal coordinate formulation (ANCF). Mechanism and Machine Theory, 2020, 153, 103961. | 2.7 | 42 |
| 14 | Study of the forward locomotion of a three-dimensional multibody model of a Waveboard by inverse dynamics. Mechanism and Machine Theory, 2020, 149, 103826. | 2.7 | 6 |
| 15 | Design and analysis of a constant-force bench press. Mechanism and Machine Theory, 2019, 142, 103612. | 2.7 | 10 |
| 16 | A fast model to resolve the velocity-space of fast-ion losses detected in ASDEX Upgrade and MAST Upgrade. Journal of Instrumentation, 2019, 14, C09015-C09015. | 0.5 | 3 |
| 17 | Detection of Communities within the Multibody System Dynamics Network and Analysis of Their Relations. Symmetry, 2019, 11, 1525. | 1.1 | 6 |
| 18 | Nonlinear modelling and simulation of vibrocompaction processes. International Journal of Non-Linear Mechanics, 2018, 102, 101-111. | 1.4 | 6 |

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|----|---|-----|-----------|
| 19 | A rotary and reciprocating scintillator based fast-ion loss detector for the MAST-U tokamak. Review of Scientific Instruments, 2018, 89, 101112. | 0.6 | 11 |
| 20 | Design of Three New Cam-Based Constant-Force Mechanisms. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, . | 1.7 | 16 |
| 21 | Direct sensitivity analysis of multibody systems with holonomic and nonholonomic constraints via an index-3 augmented Lagrangian formulation with projections. Nonlinear Dynamics, 2018, 93, 2039-2056. | 2.7 | 29 |
| 22 | On the design of a scaled railroad vehicle for the validation of computational models. Mechanism and Machine Theory, 2017, 115, 60-76. | 2.7 | 16 |
| 23 | Study of the Contribution of Nonlinear Normal Modes (NNMs) in Large Amplitude Oscillations of Simply Supported Beams. Procedia Engineering, 2017, 199, 625-630. | 1.2 | Ο |
| 24 | A fast feedback controlled magnetic drive for the ASDEX Upgrade fast-ion loss detectors. Review of Scientific Instruments, 2016, 87, 11E705. | 0.6 | 8 |
| 25 | Dynamical analysis and design of active orthoses for spinal cord injured subjects by aesthetic and energetic optimization. Nonlinear Dynamics, 2016, 84, 559-581. | 2.7 | 13 |
| 26 | Design and analysis of a flexible linkage for robot safe operation in collaborative scenarios. Mechanism and Machine Theory, 2015, 92, 1-16. | 2.7 | 23 |
| 27 | A Flexible Multibody Model of a Safety Robot Arm for Experimental Validation and Analysis of Design Parameters. Journal of Computational and Nonlinear Dynamics, 2014, 9, . | 0.7 | 11 |
| 28 | Role of Link Flexibility and Variable Stiffness Actuator on Collision Safety for Service Robots. Mechanisms and Machine Science, 2013, , 499-507. | 0.3 | 2 |
| 29 | Simple formulations of imposing moments and evaluating joint reaction forces for rigid-flexible multibody systems. Nonlinear Dynamics, 2012, 69, 127-147. | 2.7 | 27 |
| 30 | 3D-Simulation of human walking by parameter optimization. Archive of Applied Mechanics, 2012, 82, 533-556. | 1.2 | 20 |
| 31 | Walking dynamics from mechanism models to parameter optimization. Procedia IUTAM, 2011, 2, 199-211. | 1.2 | 5 |
| 32 | Stability and Bifurcation Analysis of a Rotating Beam Substructured Model. , 2009, , . | | 1 |
| 33 | Stability analysis of a substructured model of the rotating beam. Nonlinear Dynamics, 2009, 55, 355-372. | 2.7 | 25 |
| 34 | Three-dimensional formulation of rigid-flexible multibody systems with flexible beam elements. Multibody System Dynamics, 2008, 20, 1-28. | 1.7 | 60 |
| 35 | Formulation of Three-Dimensional Rigid-Flexible Multibody Systems. , 2007, , 1091. | | 0 |
| 36 | A new locking-free shear deformable finite element based on absolute nodal coordinates. Nonlinear Dynamics, 2007, 50, 249-264. | 2.7 | 90 |

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|----|--|-----|-----------|
| 37 | Modeling of Belt-Drives Using a Large Deformation Finite Element Formulation. Nonlinear Dynamics, 2006, 43, 239-256. | 2.7 | 105 |
| 38 | An Internal Damping Model for the Absolute Nodal Coordinate Formulation. Nonlinear Dynamics, 2005, 42, 347-369. | 2.7 | 82 |
| 39 | Finite element analysis of the geometric stiffening effect. Part 1: A correction in the floating frame of reference formulation. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2005, 219, 187-202. | 0.5 | 9 |
| 40 | Finite element analysis of the geometric stiffening effect. Part 2: Non-linear elasticity. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2005, 219, 203-211. | 0.5 | 8 |
| 41 | Study of the Geometric Stiffening Effect: Comparison of Different Formulations. Multibody System Dynamics, 2004, 11, 321-341. | 1.7 | 53 |
| 42 | Efficient Evaluation of the Elastic Forces and the Jacobian in the Absolute Nodal Coordinate Formulation. Nonlinear Dynamics, 2004, 35, 313-329. | 2.7 | 118 |
| 43 | Describing Rigid-Flexible Multibody Systems Using Absolute Coordinates. Nonlinear Dynamics, 2003, 34, 75-94. | 2.7 | 76 |