

Giacomo Frulla

List of Publications by Year in descending order

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53
papers

621
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759233

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677142

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53
docs citations

53
times ranked

319
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Didactical Tool for Wing Weight Estimation in a Preliminary Aircraft Design Stage. WSEAS TRANSACTIONS on ADVANCES in ENGINEERING EDUCATION, 2021, 18, 78-85. | 0.4 | 3 |
| 2 | Simplified procedure for damage-oriented evaluation of a stiffened panel with skin-stringer de-bonding in preliminary design stage. Aeronautics and Aerospace Open Access Journal, 2021, 5, 95-101. | 0.2 | 0 |
| 3 | Experimental and numerical vibration analysis of plates with curvilinear sub-stiffeners. Engineering Structures, 2020, 209, 109956. | 5.3 | 11 |
| 4 | Numerical/Experimental Validation of Thin-Walled Composite Box Beam Optimal Design. Aerospace, 2020, 7, 111. | 2.2 | 3 |
| 5 | Numerical simulation and experimental validation of slender wings flutter behaviour. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 5913-5928. | 1.3 | 9 |
| 6 | HALE wing experiments and computational models to predict nonlinear flutter and dynamic response. Aeronautical Journal, 2019, 123, 912-946. | 1.6 | 5 |
| 7 | Generalized topology for resonators having N commensurate harmonics. Journal of Sound and Vibration, 2018, 419, 585-603. | 3.9 | 4 |
| 8 | An invariant-based performance-oriented procedure for preliminary design of composite structures. Aircraft Engineering and Aerospace Technology, 2018, 90, 532-541. | 1.2 | 2 |
| 9 | Graph-based element removal method for topology synthesis of beam based ground structures. Structural and Multidisciplinary Optimization, 2018, 57, 1809-1813. | 3.5 | 5 |
| 10 | Energy harvesting from aeroelastic vibrations induced by discrete gust loads. Journal of Intelligent Material Systems and Structures, 2017, 28, 47-62. | 2.5 | 21 |
| 11 | Constrained combinatorial optimization of multi-layered composite structures by means of Stud GA with proportionate selection and extinction. Structural and Multidisciplinary Optimization, 2017, 55, 2239-2257. | 3.5 | 3 |
| 12 | MDO/MSO of Slender Thin Walled Box Beam Model. , 2017, , . | | 1 |
| 13 | Topology synthesis of planar ground structures for energy harvesting applications. , 2017, , . | | 2 |
| 14 | Parametric analysis of a fluttering piezoelectric wing. Aircraft Engineering and Aerospace Technology, 2016, 88, 382-388. | 0.8 | 3 |
| 15 | A variable twist blade concept for more effective wind generation: design and realization. Smart Science, 2016, 4, 78-86. | 3.2 | 10 |
| 16 | Nonlinear Slender Beam-Wise Schemes for Structural Behavior of Flexible UAS Wings. , 2015, , . | | 0 |
| 17 | A Multi-Objective Nonlinear Piezoaeroelastic Wing Solution for Energy Harvesting and Load Alleviation: Modeling and Simulation. , 2015, , . | | 2 |
| 18 | Preliminary evaluation of the fatigue behaviour of aluminium alloy in corrosive environment. Aircraft Engineering and Aerospace Technology, 2015, 87, 165-171. | 0.8 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Nonlinear LCO "amplitude" frequency characteristics for plates fluttering at supersonic speeds. International Journal of Non-Linear Mechanics, 2015, 77, 51-60. | 2.6 | 19 |
| 20 | Experimental Slender Wing Model Design by the Application of Aeroelastic Scaling Laws. Journal of Aerospace Engineering, 2014, 27, 112-120. | 1.4 | 15 |
| 21 | Analysis of slender thin-walled anisotropic box-beams including local stiffness and coupling effects. Aircraft Engineering and Aerospace Technology, 2014, 86, 345-355. | 0.8 | 7 |
| 22 | Development of an Aeroelastic Wing Model With Piezoelectric Elements for Gust Load Alleviation and Energy Harvesting. , 2014, , . | | 3 |
| 23 | WindDesigner: An open tool for analysis and design of wind generators. , 2013, , . | | 2 |
| 24 | Static/Fatigue Structural Behaviour of Damaged Stiffened Composite Plates for UAS Applications. , 2013, , . | | 2 |
| 25 | Theoretical and Experimental Flutter Predictions in High Aspect Ratio Composite Wings. SAE International Journal of Aerospace, 2011, 4, 1365-1372. | 4.0 | 2 |
| 26 | Critical behaviour of slender wing configurations. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2010, 224, 587-600. | 1.3 | 22 |
| 27 | Structural Uncertainty Effect on Classical Wing Flutter Characteristics. Journal of Aerospace Engineering, 2010, 23, 327-338. | 1.4 | 32 |
| 28 | Research Activities on Buckling of Composite Structures in Italy. , 2009, , . | | 2 |
| 29 | Numerical/experimental structural characterization of composite advanced joints for HALE-UAV platforms. Composites Part B: Engineering, 2008, 39, 656-664. | 12.0 | 7 |
| 30 | Design, manufacturing and testing of a HALE-UAV structural demonstrator. Composite Structures, 2008, 83, 143-153. | 5.8 | 42 |
| 31 | Stability and Control of a High-Altitude, Long-Endurance UAV. Journal of Guidance, Control, and Dynamics, 2007, 30, 713-721. | 2.8 | 34 |
| 32 | Design of a High-Altitude Long-Endurance Solar-Powered Unmanned Air Vehicle for Multi-Payload and Operations. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2007, 221, 199-216. | 1.3 | 52 |
| 33 | Stability, Control, and Simulation of High-Altitude-Long-Endurance UAVs. , 2006, , . | | 1 |
| 34 | Nonlinear Aeroelastic Modeling and Experiments of Flexible Wings. , 2006, , . | | 11 |
| 35 | Aeroelastic behaviour of a solar-powered high-altitude long endurance unmanned air vehicle (HALE-UAV) slender wing. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2004, 218, 179-188. | 1.3 | 13 |
| 36 | HELIPLAT: Design, Aerodynamic, Structural Analysis of Long- Endurance Solar-Powered Stratospheric Platform. Journal of Aircraft, 2004, 41, 1505-1520. | 2.4 | 84 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Heliplat [®] : high altitude very-long endurance solar powered UAV for telecommunication and Earth observation applications. <i>Aeronautical Journal</i> , 2004, 108, 277-293. | 1.6 | 31 |
| 38 | Preliminary reliability design of a solar-powered high-altitude very long endurance unmanned air vehicle. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Aerospace Engineering</i> , 2002, 216, 189-196. | 1.3 | 12 |
| 39 | HELIPLAT: Aerodynamic and Structural Analysis of HAVE Solar Powered Platform.. , 2002, , . | | 18 |
| 40 | Cicala's asymptotic approach to the linear shell theory. <i>Composite Structures</i> , 2001, 52, 13-26. | 5.8 | 3 |
| 41 | Rigid rotor dynamic stability using Floquet theory. <i>European Journal of Mechanics, A/Solids</i> , 2000, 19, 139-150. | 3.7 | 10 |
| 42 | Post-buckling behaviour of graphite/epoxy stiffened panels with initial imperfections subjected to eccentric biaxial compression loading. <i>International Journal of Non-Linear Mechanics</i> , 1997, 32, 1017-1033. | 2.6 | 40 |
| 43 | Nonlinear analysis of graphite epoxy/wing boxes under pure bending including lateral pressure. <i>Journal of Aircraft</i> , 1995, 32, 1375-1381. | 2.4 | 8 |
| 44 | Analytical and Experimental Results of the Coefficient of Thermal Expansion of High-Modulus Graphite-Epoxy Materials. <i>Journal of Composite Materials</i> , 1995, 29, 751-765. | 2.4 | 7 |
| 45 | Nonlinear angle of twist of advanced composite wing boxes under pure torsion. <i>Journal of Aircraft</i> , 1994, 31, 1297-1302. | 2.4 | 3 |
| 46 | Nonlinear analysis of anisotropic plates with initial imperfections and various boundary conditions subjected to combined biaxial compression and shear loads. <i>International Journal of Solids and Structures</i> , 1994, 31, 763-783. | 2.7 | 26 |
| 47 | A New Test Facility for Measuring the Coefficient of Moisture Expansion of Advanced Composite Materials. <i>Journal of Composites Technology and Research</i> , 1992, 14, 225. | 0.4 | 6 |
| 48 | The Influence of Supersonic Stream on the Dependence "Amplitude-Frequency" of Nonlinear Vibrations of Flexible Plate. , 0, , . | | 2 |
| 49 | A Reduced Order Model for the Aeroelastic Analysis of Flexible Wings. <i>SAE International Journal of Aerospace</i> , 0, 6, 447-458. | 4.0 | 11 |
| 50 | A Possible Adaptive Wing Apparatus for New UAV Configurations. , 0, , . | | 1 |
| 51 | Aeroelastic Behaviour of Flexible Wings Carrying Distributed Electric Propulsion Systems. , 0, , . | | 2 |
| 52 | Efficient Procedure for Robust Optimal Design of Aerospace Laminated Structures. , 0, , . | | 2 |
| 53 | Application of Structural Topology Optimization to Couple Thin-Walled Stiffened Box-Beams. , 0, , . | | 3 |