

Paolo Gaudenzi

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

2,580
citations

218592

26
h-index

223716

46
g-index

108
all docs

108
docs citations

108
times ranked

1927
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An industry 4.0 approach to large scale production of satellite constellations. The case study of composite sandwich panel manufacturing. Acta Astronautica, 2022, 192, 276-290. | 1.7 | 8 |
| 2 | Energy harvesting. , 2022, , 41-59. | | 0 |
| 3 | Experimental aeroelastic energy harvesting. , 2022, , 223-246. | | 2 |
| 4 | Piezoelectric material. , 2022, , 3-19. | | 1 |
| 5 | Vortex-induced vibrations based aeroelastic energy harvesting. , 2022, , 181-199. | | 0 |
| 6 | Smart structures. , 2022, , 21-38. | | 0 |
| 7 | Fluid-structure interaction: some issues about the aeroelastic problem. , 2022, , 125-142. | | 0 |
| 8 | Galloping-based aeroelastic energy harvesting. , 2022, , 201-221. | | 0 |
| 9 | Piezoelectric energy harvesters. , 2022, , 61-78. | | 1 |
| 10 | Flutter-based aeroelastic energy harvesting. , 2022, , 143-155. | | 0 |
| 11 | Limit cycle oscillations. , 2022, , 157-179. | | 0 |
| 12 | Modeling and simulation of a piezoelectric energy harvester. , 2022, , 99-121. | | 0 |
| 13 | Energy harvesting and circuits. , 2022, , 79-97. | | 0 |
| 14 | Multimodal piezoelectric wind energy harvester for aerospace applications. International Journal of Energy Research, 2022, 46, 13698-13710. | 2.2 | 13 |
| 15 | Numerical Assessment and Parametric Optimization of a Piezoelectric Wind Energy Harvester for IoT-Based Applications. Energies, 2021, 14, 2498. | 1.6 | 9 |
| 16 | Study of the Surface and Dimensional Quality of the AlSi10Mg Thin-Wall Components Manufactured by Selective Laser Melting. Journal of Composites Science, 2021, 5, 126. | 1.4 | 2 |
| 17 | Aircraft part substitution via additive manufacturing: design, simulation, fabrication and testing. Rapid Prototyping Journal, 2021, 27, 995-1009. | 1.6 | 8 |
| 18 | A small spacecraft to probe the interior of the Jovian moon Europa: Europa Tomography Probe (ETP) system design. Acta Astronautica, 2020, 166, 137-146. | 1.7 | 0 |

| # | ARTICLE | IF | CITATIONS |
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| 19 | Numerical and experimental investigation of piezoelectric energy harvester based on flag-flutter. <i>Aerospace Science and Technology</i> , 2020, 97, 105634. | 2.5 | 73 |
| 20 | A Review on Applications of Piezoelectric Materials in Aerospace Industry. <i>Integrated Ferroelectrics</i> , 2020, 211, 25-44. | 0.3 | 52 |
| 21 | Performance Evaluation of a Piezoelectric Energy Harvester Based on Flag-Flutter. <i>Micromachines</i> , 2020, 11, 933. | 1.4 | 41 |
| 22 | Modeling and Design of a Piezoelectric Nonlinear Aeroelastic Energy Harvester. <i>Integrated Ferroelectrics</i> , 2020, 211, 132-151. | 0.3 | 17 |
| 23 | Characterization and Implementation of a Piezoelectric Energy Harvester Configuration: Analytical, Numerical and Experimental Approach. <i>Integrated Ferroelectrics</i> , 2020, 212, 39-60. | 0.3 | 23 |
| 24 | Reliability Risk Analysis for the Aeroelastic Piezoelectric Energy Harvesters. <i>Integrated Ferroelectrics</i> , 2020, 212, 156-169. | 0.3 | 10 |
| 25 | Energy Harvesting towards Self-Powered IoT Devices. <i>Energies</i> , 2020, 13, 5528. | 1.6 | 139 |
| 26 | Experimental Evaluation of Piezoelectric Energy Harvester Based on Flag-Flutter. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 807-816. | 0.3 | 2 |
| 27 | There Is a Great Future in Plastics: Personalized Approach to the Management of Hilar Cholangiocarcinoma Using a 3-D-Printed Liver Model. <i>Digestive Diseases and Sciences</i> , 2020, 65, 2210-2215. | 1.1 | 3 |
| 28 | Piezoelectric thermo electromechanical energy harvester for reconnaissance satellite structure. <i>Microsystem Technologies</i> , 2019, 25, 665-672. | 1.2 | 30 |
| 29 | Analytical Prediction of High-Velocity Impact Resistance of Plane and Curved Thin Composite Targets. <i>Aerotecnica Missili & Spazio</i> , 2019, 98, 111-118. | 0.5 | 3 |
| 30 | Selective Laser Melting of a 1U CubeSat structure. <i>Design for Additive Manufacturing and assembly. Acta Astronautica</i> , 2019, 159, 377-384. | 1.7 | 29 |
| 31 | Experimental and Numerical Investigation of PZT Response in Composite Structures with Variable Degradation Levels. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 3239-3246. | 1.2 | 28 |
| 32 | Investigation of Deformation in Bimorph Piezoelectric Actuator: Analytical, Numerical and Experimental Approach. <i>Integrated Ferroelectrics</i> , 2019, 201, 94-109. | 0.3 | 42 |
| 33 | Design and performance evaluation of a piezoelectric aeroelastic energy harvester based on the limit cycle oscillation phenomenon. <i>Acta Astronautica</i> , 2019, 157, 233-240. | 1.7 | 42 |
| 34 | Revisiting the configuration of small satellites structures in the framework of 3D Additive Manufacturing. <i>Acta Astronautica</i> , 2018, 146, 249-258. | 1.7 | 21 |
| 35 | Innovative composite material component with embedded self-powered wireless sensor device for structural monitoring. <i>Composite Structures</i> , 2018, 202, 136-141. | 3.1 | 13 |
| 36 | Analysis of damage in composite laminates with embedded piezoelectric patches subjected to bending action. <i>Composite Structures</i> , 2018, 202, 935-942. | 3.1 | 27 |

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| 37 | Response of piezoelectric materials on thermomechanical shocking and electrical shocking for aerospace applications. <i>Microsystem Technologies</i> , 2018, 24, 3791-3798. | 1.2 | 51 |
| 38 | Electromechanical Degradation of Piezoelectric Patches. <i>Advanced Structured Materials</i> , 2018, , 35-44. | 0.3 | 12 |
| 39 | Digital Design of Medical Replicas via Desktop Systems: Shape Evaluation of Colon Parts. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-10. | 1.1 | 6 |
| 40 | A Review on Mechanisms for Piezoelectric-Based Energy Harvesters. <i>Energies</i> , 2018, 11, 1850. | 1.6 | 177 |
| 41 | OMA analysis of a launcher under operational conditions with time-varying properties. <i>CEAS Space Journal</i> , 2018, 10, 381-406. | 1.1 | 7 |
| 42 | OMA Study on the Structural Dynamic Properties of a Launcher Vehicle Using Flight Data. , 2017, , . | | 1 |
| 43 | High velocity impact behaviour of hybrid basalt-carbon/epoxy composites. <i>Composite Structures</i> , 2017, 168, 305-312. | 3.1 | 78 |
| 44 | Effects of variable resistance on smart structures of cubic reconnaissance satellites in various thermal and frequency shocking conditions. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 4151-4157. | 0.7 | 36 |
| 45 | A geometrically exact formulation of thin laminated composite shells. <i>Composite Structures</i> , 2017, 180, 542-549. | 3.1 | 1 |
| 46 | Effects of curvature on high-velocity impact resistance of thin woven fabric composite targets. <i>Composite Structures</i> , 2017, 160, 349-365. | 3.1 | 9 |
| 47 | Dynamic Response of Green Sandwich Structures. <i>Procedia Engineering</i> , 2016, 167, 237-244. | 1.2 | 10 |
| 48 | A nonlinear piezoelectric shell model: Theoretical and numerical considerations. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 724-742. | 1.4 | 8 |
| 49 | Detection of low-velocity impact-induced delaminations in composite laminates using Auto-Regressive models. <i>Composite Structures</i> , 2016, 151, 108-113. | 3.1 | 38 |
| 50 | Damage tolerance of carbon/flax hybrid composites subjected to low velocity impact. <i>Composites Part B: Engineering</i> , 2016, 91, 144-153. | 5.9 | 170 |
| 51 | Low-velocity impact behaviour of hemp fibre reinforced bio-based epoxy laminates. <i>Composites Part B: Engineering</i> , 2016, 91, 162-168. | 5.9 | 69 |
| 52 | Use of the wavelet packet transform for pattern recognition in a structural health monitoring application. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1513-1529. | 1.4 | 19 |
| 53 | Earth Orbiting Support Systems for commercial low Earth orbit data relay: Assessing architectures through tradespace exploration. <i>Acta Astronautica</i> , 2015, 111, 48-60. | 1.7 | 15 |
| 54 | Analytical modelling of high-velocity impacts on thin woven fabric composite targets. <i>Composite Structures</i> , 2015, 131, 951-965. | 3.1 | 24 |

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| 55 | A nonlinear formulation of piezoelectric shells with complete electro-mechanical coupling. <i>Meccanica</i> , 2015, 50, 2471-2486. | 1.2 | 6 |
| 56 | Sparse sensing detection of impact-induced delaminations in composite laminates. <i>Composite Structures</i> , 2015, 133, 1209-1219. | 3.1 | 28 |
| 57 | On the evaluation of impact damage on composite materials by comparing different NDI techniques. <i>Composite Structures</i> , 2014, 118, 257-266. | 3.1 | 57 |
| 58 | Feasibility Study of a Vega Launched Low Thrust Geostationary Communication Satellite. , 2013, , . | | 1 |
| 59 | A nonlinear formulation of piezoelectric plates. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 1713-1723. | 1.4 | 13 |
| 60 | Multi-frequency dynamic absorber for improved spacecraft comfort during the launch phase. <i>CEAS Space Journal</i> , 2012, 3, 77-88. | 1.1 | 1 |
| 61 | Finite element models of piezoelectric actuation for active flow control. <i>Acta Astronautica</i> , 2012, 71, 129-138. | 1.7 | 8 |
| 62 | Numerical simulation of the behavior of inflatable structures for space. <i>Acta Astronautica</i> , 2010, 67, 362-368. | 1.7 | 17 |
| 63 | 3D Finite Element Analyses of Multilayer Dielectric Elastomer Actuators with Metallic Compliant Electrodes for Space Applications. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 621-632. | 1.4 | 9 |
| 64 | A Model for Preliminary Design Procedures of Satellite Systems. <i>Concurrent Engineering Research and Applications</i> , 2008, 16, 149-159. | 2.0 | 13 |
| 65 | Martian jumping rover equipped with electroactive polymer actuators: A preliminary study. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2007, 43, 79-92. | 2.6 | 8 |
| 66 | FEM simulation of non-stationary incompressible viscous fluids. <i>Engineering Computations</i> , 2006, 23, 922-932. | 0.7 | 2 |
| 67 | The design of space structures in the frame of a concurrent engineering approach. , 2006, , . | | 0 |
| 68 | Structural Health Monitoring for Future Space Vehicles. <i>Journal of Intelligent Material Systems and Structures</i> , 2006, 17, 577-585. | 1.4 | 42 |
| 69 | On the Formulation of a Piezoelectric Plate Model. <i>Journal of Intelligent Material Systems and Structures</i> , 2005, 16, 285-290. | 1.4 | 10 |
| 70 | Multi-layer higher-order finite elements for the analysis of free-edge stresses in piezoelectric actuated laminates. <i>Composite Structures</i> , 2004, 63, 263-270. | 3.1 | 21 |
| 71 | Multi-layer higher-order finite elements for the analysis of free-edge stresses in piezoelectric actuated laminates. <i>Composite Structures</i> , 2003, 61, 271-278. | 3.1 | 15 |
| 72 | Finite element models for laminated shells with actuation capability. <i>Computers and Structures</i> , 2003, 81, 1059-1069. | 2.4 | 25 |

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| 73 | Finite Element Models for Piezoelectric Continua. , 2002, , 181-205. | | 2 |
| 74 | Post-buckling behavior of composite panels in the presence of unstable delaminations. Composite Structures, 2001, 51, 301-309. | 3.1 | 49 |
| 75 | Effective Shear Deformable Shell Elements for Adaptive Laminated Structures. Journal of Intelligent Material Systems and Structures, 2001, 12, 415-421. | 1.4 | 7 |
| 76 | Control of beam vibrations by means of piezoelectric devices: theory and experiments. Composite Structures, 2000, 50, 373-379. | 3.1 | 85 |
| 77 | Optimal placement of PZT actuators for the control of beam dynamics. Smart Materials and Structures, 2000, 9, 110-120. | 1.8 | 90 |
| 78 | Static adjustment of beam deflections by means of induced strain actuators. Smart Materials and Structures, 1999, 8, 278-283. | 1.8 | 22 |
| 79 | The Effects of Delamination on the Fatigue Behavior of Composite Structures. Journal of Composite Materials, 1999, 33, 267-303. | 1.2 | 7 |
| 80 | On the use of the Pá€TFE method for panel flutter optimization. Computers and Structures, 1999, 70, 109-117. | 2.4 | 11 |
| 81 | An evaluation of higher-order effects on the eigenfrequencies of composite structures. Composite Structures, 1999, 47, 821-825. | 3.1 | 2 |
| 82 | Post-buckling behaviour of thermoplastic matrix composite laminates subjected to pure shear. Composite Structures, 1999, 46, 381-386. | 3.1 | 1 |
| 83 | Exact higher order solutions for a simple adaptive structure. International Journal of Solids and Structures, 1998, 35, 3595-3610. | 1.3 | 12 |
| 84 | Multi-layer higher-order finite elements for the analysis of free-edge stresses in composite laminates. International Journal for Numerical Methods in Engineering, 1998, 41, 851-873. | 1.5 | 44 |
| 85 | Active Microvibration Control of an Optical Payload Installed on the ARTEMIS Spacecraft. Journal of Intelligent Material Systems and Structures, 1998, 9, 740-748. | 1.4 | 8 |
| 86 | Genetic Algorithm Optimization for the Active Control of a Beam by Means of PZT Actuators. Journal of Intelligent Material Systems and Structures, 1998, 9, 291-300. | 1.4 | 24 |
| 87 | Introduction to September 1997 Special Issue. Journal of Intelligent Material Systems and Structures, 1997, 8, 723-723. | 1.4 | 0 |
| 88 | Vibration control of an active laminated beam. Composite Structures, 1997, 38, 413-420. | 3.1 | 22 |
| 89 | Analysis of a glass-fibre sandwich panel for car body constructions. Composite Structures, 1997, 38, 421-433. | 3.1 | 8 |
| 90 | Post-buckling analysis of a delaminated composite plate under compression. Composite Structures, 1997, 40, 231-238. | 3.1 | 14 |

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| 91 | On delamination buckling of composite laminates under compressive loading. Composite Structures, 1997, 39, 21-30. | 3.1 | 19 |
| 92 | On the electromechanical response of active composite materials with piezoelectric inclusions. Computers and Structures, 1997, 65, 157-168. | 2.4 | 56 |
| 93 | Dynamic interaction between piezoelectric bonded actuators and an axial beam. , 1996, , . | | 0 |
| 94 | Analysis and Control of Microvibrations on ARTEMIS Satellite. Journal of Intelligent Material Systems and Structures, 1996, 7, 216-226. | 1.4 | 1 |
| 95 | A finite element evaluation of single-layer and multi-layer theories for the analysis of laminated plates. Composite Structures, 1995, 30, 427-440. | 3.1 | 87 |
| 96 | On the use of a multilayer higher-order theory for the stress analysis around a circular hole of laminates under tension. Composite Structures, 1995, 32, 649-658. | 3.1 | 11 |
| 97 | An Iterative Finite Element Procedure for the Analysis of Piezoelectric Continua. Journal of Intelligent Material Systems and Structures, 1995, 6, 266-273. | 1.4 | 109 |
| 98 | Pin-force and Euler-Bernoulli models for analysis of intelligent structures. AIAA Journal, 1995, 33, 1746-1749. | 1.5 | 23 |
| 99 | <title>Stress distribution in a simple adaptive structure actuated in bending mode</title>. , 1994, 2361, 71. | | 1 |
| 100 | Parameter-transfer finite element method for structural analysis. AIAA Journal, 1993, 31, 923-929. | 1.5 | 5 |
| 101 | <title>Improving transverse actuation of piezoceramics using interdigitated surface electrodes</title>. , 1993, , . | | 84 |
| 102 | A general formulation of higher-order theories for the analysis of laminated plates. Composite Structures, 1992, 20, 103-112. | 3.1 | 38 |
| 103 | A class of C0 finite elements for the static and dynamic analysis of laminated plates. Computers and Structures, 1992, 44, 1169-1178. | 2.4 | 17 |
| 104 | A three-dimensional analysis of edge effects in composite laminates with circular holes. Composite Structures, 1990, 15, 115-136. | 3.1 | 16 |
| 105 | Wireless Structural Sensing. Advanced Materials Research, 0, 745, 155-165. | 0.3 | 2 |