

Gaetano Giunta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7992085/publications.pdf>

Version: 2024-02-01

77
papers

2,227
citations

257450

24
h-index

265206

42
g-index

90
all docs

90
docs citations

90
times ranked

969
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A geometrically nonlinear analysis through hierarchical one-dimensional modelling of sandwich beam structures. <i>Acta Mechanica</i> , 2023, 234, 67-83. | 2.1 | 9 |
| 2 | Data-driven multiscale method for composite plates. <i>Computational Mechanics</i> , 2022, 70, 1025-1040. | 4.0 | 9 |
| 3 | Hierarchical beam finite elements for geometrically nonlinear analysis coupled with Asymptotic Numerical Method. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 2487-2500. | 2.6 | 14 |
| 4 | A data-driven analysis on bridging techniques for heterogeneous materials and structures. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 1-15. | 2.6 | 10 |
| 5 | A novel computational framework for the analysis of bistable composite beam structures. <i>Composite Structures</i> , 2021, 257, 113167. | 5.8 | 5 |
| 6 | Model reduction for the forming process of fibrous composites structures via second gradient enriched continuum models. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 1061-1072. | 2.6 | 4 |
| 7 | Strong and weak form solutions of curved beams via Carrera's unified formulation. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 1342-1353. | 2.6 | 13 |
| 8 | The boundary effects on stretch-induced membrane wrinkling. <i>Thin-Walled Structures</i> , 2020, 154, 106838. | 5.3 | 14 |
| 9 | Data-driven multiscale finite element method: From concurrence to separation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 363, 112893. | 6.6 | 65 |
| 10 | Multiscale CUF-FE2 nonlinear analysis of composite beam structures. <i>Computers and Structures</i> , 2019, 221, 28-43. | 4.4 | 25 |
| 11 | Multiscale Nonlinear Analysis of Beam Structures by Means of the Carrera Unified Formulation. <i>PoliTO Springer Series</i> , 2019, , 47-63. | 0.5 | 2 |
| 12 | Modeling of composite and sandwich beams with a generic cross-section using a variable separation method. <i>Composites Part B: Engineering</i> , 2019, 165, 648-661. | 12.0 | 7 |
| 13 | A static analysis of three-dimensional sandwich beam structures by hierarchical finite elements modelling. <i>Journal of Sandwich Structures and Materials</i> , 2019, 21, 2382-2410. | 3.5 | 6 |
| 14 | Non-linear multi-scale modeling of 3D-spacer-rubber composites. , 2019, , 70-76. | | 0 |
| 15 | Locking-free curved elements with refined kinematics for the analysis of composite structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 337, 481-500. | 6.6 | 15 |
| 16 | Geometrically Nonlinear Analysis of Beam Structures via Hierarchical One-Dimensional Finite Elements. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-22. | 1.1 | 10 |
| 17 | Free Vibration Analysis of Fibre-Metal Laminated Beams via Hierarchical One-Dimensional Models. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-12. | 1.1 | 7 |
| 18 | Integration of material and process modelling in a business decision support system: Case of COMPOSELECTOR H2020 project. <i>Composite Structures</i> , 2018, 204, 778-790. | 5.8 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | A Fourier-related double scale analysis on the instability phenomena of sandwich plates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 318, 270-295. | 6.6 | 40 |
| 20 | A two-dimensional Fourier-series finite element for wrinkling analysis of thin films on compliant substrates. <i>Thin-Walled Structures</i> , 2017, 114, 144-153. | 5.3 | 20 |
| 21 | A new Fourier-related double scale analysis for wrinkling analysis of thin films on compliant substrates. <i>Composite Structures</i> , 2017, 160, 613-624. | 5.8 | 17 |
| 22 | A free vibration analysis of three-dimensional sandwich beams using hierarchical one-dimensional finite elements. <i>Composites Part B: Engineering</i> , 2017, 110, 7-19. | 12.0 | 51 |
| 23 | A micromechanics approach for effective elastic properties of nano-composites with energetic surfaces/interfaces. <i>Composite Structures</i> , 2017, 159, 278-287. | 5.8 | 22 |
| 24 | A static analysis of three-dimensional functionally graded beams by hierarchical modelling and a collocation meshless solution method. <i>Acta Mechanica</i> , 2016, 227, 969-991. | 2.1 | 25 |
| 25 | An intuitive computational multi-scale methodology and tool for the dynamic modelling of viscoelastic composites and structures. <i>Composite Structures</i> , 2016, 144, 131-137. | 5.8 | 15 |
| 26 | A thermal stress finite element analysis of beam structures by hierarchical modelling. <i>Composites Part B: Engineering</i> , 2016, 95, 179-195. | 12.0 | 25 |
| 27 | Hierarchical Beam Finite Elements Based Upon a Variables Separation Method. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1650026. | 2.2 | 6 |
| 28 | Optimal design of a multilayered piezoelectric transducer based on a special unit cell homogenization method. <i>Acta Mechanica</i> , 2016, 227, 1837-1847. | 2.1 | 4 |
| 29 | Hierarchical one-dimensional finite elements for the thermal stress analysis of three-dimensional functionally graded beams. <i>Composite Structures</i> , 2016, 153, 514-528. | 5.8 | 19 |
| 30 | Mixed-dimensional modeling by means of solid and higher-order multi-layered plate finite elements. <i>Mechanics of Advanced Materials and Structures</i> , 2016, 23, 960-970. | 2.6 | 7 |
| 31 | A Thermal Stress Analysis of Three-Dimensional Beams by Refined One-Dimensional Models and Strong Form Solutions. <i>Applied Mechanics and Materials</i> , 2016, 828, 139-171. | 0.2 | 6 |
| 32 | Higher-Order Hierarchical Models for the Free Vibration Analysis of Thin-Walled Beams. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-12. | 1.1 | 4 |
| 33 | An analysis of composite beams by means of hierarchical finite elements and a variables separation method. <i>Computers and Structures</i> , 2015, 158, 15-29. | 4.4 | 10 |
| 34 | A static analysis of three-dimensional functionally graded beams through hierarchical one-dimensional finite elements. <i>AIP Conference Proceedings</i> , 2015, , . | 0.4 | 0 |
| 35 | Hierarchical models for the static analysis of three-dimensional sandwich beam structures. <i>Composite Structures</i> , 2015, 133, 1284-1301. | 5.8 | 13 |
| 36 | Static Analysis of Shear Actuated Piezo-Electric Beams via Hierarchical FEM Theories. <i>Mechanics of Advanced Materials and Structures</i> , 2015, 22, 3-18. | 2.6 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | A novel two-dimensional finite element to study the instability phenomena of sandwich plates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 283, 1117-1137. | 6.6 | 34 |
| 38 | A new family of finite elements for wrinkling analysis of thin films on compliant substrates. <i>Composite Structures</i> , 2015, 119, 568-577. | 5.8 | 28 |
| 39 | A free vibration analysis of piezo-electric beams via hierarchical one-dimensional finite elements. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 1009-1023. | 2.5 | 8 |
| 40 | Analysis of nano-plates by atomistic-refined models accounting for surface free energy effect. <i>Acta Mechanica</i> , 2014, 225, 31-51. | 2.1 | 7 |
| 41 | Hierarchical theories for a linearised stability analysis of thin-walled beams with open and closed cross-section. <i>Advances in Aircraft and Spacecraft Science</i> , 2014, 1, 253-271. | 0.5 | 8 |
| 42 | Effective electromechanical coupling coefficient of adaptive structures with integrated multi-functional piezoelectric structural fiber composites. <i>Smart Structures and Systems</i> , 2014, 13, 501-515. | 1.9 | 7 |
| 43 | A dynamic analysis of three-dimensional functionally graded beams by hierarchical models. <i>Smart Structures and Systems</i> , 2014, 13, 637-657. | 1.9 | 5 |
| 44 | A Thermo-Mechanical Analysis of Isotropic and Composite Beams via Collocation with Radial Basis Functions. <i>Journal of Thermal Stresses</i> , 2013, 36, 1169-1199. | 2.0 | 26 |
| 45 | Static, free vibration and stability analysis of three-dimensional nano-beams by atomistic refined models accounting for surface free energy effect. <i>International Journal of Solids and Structures</i> , 2013, 50, 1460-1472. | 2.7 | 33 |
| 46 | Free vibration and stability analysis of three-dimensional sandwich beams via hierarchical models. <i>Composites Part B: Engineering</i> , 2013, 47, 326-338. | 12.0 | 38 |
| 47 | Free vibration analysis of composite beams via refined theories. <i>Composites Part B: Engineering</i> , 2013, 44, 540-552. | 12.0 | 96 |
| 48 | Hierarchical FEM modelling of piezo-electric beam structures. <i>Composite Structures</i> , 2013, 95, 705-718. | 5.8 | 13 |
| 49 | A thermo-mechanical analysis of functionally graded beams via hierarchical modelling. <i>Composite Structures</i> , 2013, 95, 676-690. | 5.8 | 59 |
| 50 | A refined 1D element for the structural analysis of single and multiple fiber/matrix cells. <i>Composite Structures</i> , 2013, 96, 455-468. | 5.8 | 18 |
| 51 | Failure indentation analysis of composite sandwich plates via hierarchical models. <i>Journal of Sandwich Structures and Materials</i> , 2013, 15, 45-70. | 3.5 | 20 |
| 52 | Failure Analysis of Composite Plates Subjected to Localized Loadings via a Unified Formulation. <i>Journal of Engineering Mechanics - ASCE</i> , 2012, 138, 458-467. | 2.9 | 3 |
| 53 | Variable kinematic plate elements coupled via Arlequin method. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 91, 1264-1290. | 2.8 | 24 |
| 54 | Hierarchical Theories for a Linearised Stability Analysis of FGM Beams. , 2011, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Free Vibration Analysis of Composite Plates via Refined Theories Accounting for Uncertainties. Shock and Vibration, 2011, 18, 537-554. | 0.6 | 10 |
| 56 | Multi-Model Beam Theories via the Arlequin Method. , 2011, , 151-168. | | 0 |
| 57 | Evaluation of various through the thickness and curvature approximations in free vibration analysis of cylindrical composites shells. International Journal of Vehicle Noise and Vibration, 2011, 7, 212. | 0.1 | 5 |
| 58 | Static analysis of laminated beams via a unified formulation. Composite Structures, 2011, 94, 75-83. | 5.8 | 65 |
| 59 | Hierarchical theories for the free vibration analysis of functionally graded beams. Composite Structures, 2011, 94, 68-74. | 5.8 | 102 |
| 60 | Hierarchical modelling of doubly curved laminated composite shells under distributed and localised loadings. Composites Part B: Engineering, 2011, 42, 682-691. | 12.0 | 45 |
| 61 | Variable kinematic beam elements coupled via Arlequin method. Composite Structures, 2011, 93, 697-708. | 5.8 | 46 |
| 62 | Multi-scale modelling of sandwich structures using hierarchical kinematics. Composite Structures, 2011, 93, 2375-2383. | 5.8 | 31 |
| 63 | ANALYSIS OF THIN-WALLED BEAMS VIA A ONE-DIMENSIONAL UNIFIED FORMULATION THROUGH A NAVIER-TYPE SOLUTION. International Journal of Applied Mechanics, 2011, 03, 407-434. | 2.2 | 40 |
| 64 | Refined beam elements with arbitrary cross-section geometries. Computers and Structures, 2010, 88, 283-293. | 4.4 | 218 |
| 65 | Analysis of FGM beams by means of a unified formulation. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012073. | 0.6 | 4 |
| 66 | Analysis of FGM Beams by Means of Classical and Advanced Theories. Mechanics of Advanced Materials and Structures, 2010, 17, 622-635. | 2.6 | 99 |
| 67 | An Improved Beam Formulation for Aeroelastic Applications. , 2010, , . | | 4 |
| 68 | REFINED BEAM THEORIES BASED ON A UNIFIED FORMULATION. International Journal of Applied Mechanics, 2010, 02, 117-143. | 2.2 | 249 |
| 69 | Exact, Hierarchical Solutions for Localized Loadings in Isotropic, Laminated, and Sandwich Shells. Journal of Pressure Vessel Technology, Transactions of the ASME, 2009, 131, . | 0.6 | 29 |
| 70 | Hierarchical Evaluation of Failure Parameters in Composite Plates. AIAA Journal, 2009, 47, 692-702. | 2.6 | 32 |
| 71 | A Refined Beam Theory with Only Displacement Variables and Deformable Cross-Section. , 2009, , . | | 2 |
| 72 | Hierarchical models for failure analysis of plates bent by distributed and localized transverse loadings. Journal of Zhejiang University: Science A, 2008, 9, 600-613. | 2.4 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Best on Plate/Shell Theories for Laminated Structures Analysis. , 2008, , . | | 2 |
| 74 | Hierarchical closed form solutions for plates bent by localized transverse loadings. Journal of Zhejiang University: Science A, 2007, 8, 1026-1037. | 2.4 | 30 |
| 75 | Analysis of Three-Dimensional Piezo-Electric Beams via a Unified Formulation. Advanced Materials Research, 0, 745, 101-118. | 0.3 | 3 |
| 76 | A hygrothermal stress finite element analysis of laminated beam structures through hierarchical one-dimensional modeling. Mechanics of Advanced Materials and Structures, 0, , 1-15. | 2.6 | 6 |
| 77 | Thermo-Mechanical Analysis of Isotropic and Orthotropic Beams using a Unified Formulation. , 0, , . | | 0 |