# Mario Spagnuolo

List of Publications by Year
in descending order



| 26 | 1,613 | 430442 | 580395 |
|---|---|---|---|
| papers | citations | 18 h-index | 25 g-index |

| 26 | 26 | 26 | 496 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Pantographic metamaterials: an example of mathematically driven design and of its technological challenges. Continuum Mechanics and Thermodynamics, 2019, 31, 851-884. | 1.4 | 272 |
| 2 | Mechanical metamaterials: a state of the art. Mathematics and Mechanics of Solids, 2019, 24, 212-234. | 1.5 | 261 |
| 3 | Advances in pantographic structures: design, manufacturing, models, experiments and image analyses. Continuum Mechanics and Thermodynamics, 2019, 31, 1231-1282. | 1.4 | 212 |
| 4 | Qualitative pivot damage analysis in aluminum printed pantographic sheets: Numerics and experiments. Mechanics Research Communications, 2017, 83, 47-52. | 1.0 | 125 |
| 5 | A Ritz approach for the static analysis of planar pantographic structures modeled with nonlinear Eulerâ€“Bernoulli beams. Continuum Mechanics and Thermodynamics, 2018, 30, 1103-1123. | 1.4 | 87 |
| 6 | In-depth gaze at the astonishing mechanical behavior of bone: A review for designing bio-inspired hierarchical metamaterials. Mathematics and Mechanics of Solids, 2021, 26, 1074-1103. | 1.5 | 77 |
| 7 | Wave propagation in a generalized thermoelastic plate using eigenvalue approach. Journal of Thermal Stresses, 2016, 39, 1367-1377. | 1.1 | 63 |
| 8 | The macroscopic behavior of pantographic sheets depends mainly on their microstructure: experimental evidence and qualitative analysis of damage in metallic specimens. Continuum Mechanics and Thermodynamics, 2019, 31, 1181-1203. | 1.4 | 61 |
| 9 | Mean Green operators of deformable fiber networks embedded in a compliant matrix and property estimates. Continuum Mechanics and Thermodynamics, 2019, 31, 101-132. | 1.4 | 56 |
| 10 | A targeted review on large deformations of planar elastic beams: extensibility, distributed loads, buckling and post-buckling. Mathematics and Mechanics of Solids, 2019, 24, 258-280. | 1.5 | 49 |
| 11 | Are higher-gradient models also capable of predicting mechanical behavior in the case of wide-knit pantographic structures?. Mathematics and Mechanics of Solids, 2021, 26, 18-29. | 1.5 | 49 |
| 12 | Phenomenological aspects of quasi-perfect pivots in metallic pantographic structures. Mechanics Research Communications, 2019, 101, 103415. | 1.0 | 38 |
| 13 | Stiffness optimization in nonlinear pantographic structures. Mathematics and Mechanics of Solids, 2020, 25, 2252-2262. | 1.5 | 38 |
| 14 | A Multi-disciplinary Approach for Mechanical Metamaterial Synthesis: A Hierarchical Modular Multiscale Cellular Structure Paradigm. Advanced Structured Materials, 2019, , 485-505. | 0.3 | 36 |
| 15 | Acoustic Metamaterials Based on Local Resonances: Homogenization, Optimization and Applications. Advanced Structured Materials, 2018, , 247-274. | 0.3 | 35 |
| 16 | Plane waves and eigenfrequency study in a transversely isotropic magneto-thermoelastic medium under the effect of a constant angular velocity. Journal of Thermal Stresses, 2017, 40, 1079-1092. | 1.1 | 31 |
| 17 | Out-of-plane deformation reduction via inelastic hinges in fibrous metamaterials and simplified damage approach. Mathematics and Mechanics of Solids, 2022, 27, 1011-1031. | 1.5 | 24 |
| 18 | Poynting effects in pantographic metamaterial captured via multiscale DVC. Journal of Strain Analysis for Engineering Design, 2021, 56, 462-477. | 1.0 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Localâ€“global DVC analyses confirm theoretical predictions for deformation and damage onset in torsion of pantographic metamaterial. Mechanics of Materials, 2022, 172, 104379. | 1.7 | 19 |
| 20 | Contact interactions in complex fibrous metamaterials. Continuum Mechanics and Thermodynamics, 2021, 33, 1873-1889. | 1.4 | 17 |
| 21 | Corrugated shells: An algorithm for generating double-curvature geometric surfaces for structural analysis. Thin-Walled Structures, 2022, 173, 109019. | 2.7 | 12 |
| 22 | The Mechanical Diode: On the Tracks of James Maxwell Employing Mechanicalâ€“Electrical Analogies in the Design of Metamaterials. Advanced Structured Materials, 2020, , 459-469. | 0.3 | 10 |
| 23 | Mesoscale modeling and experimental analyses for pantographic cells: Effect of hinge deformation. Mechanics of Materials, 2021, 160, 103924. | 1.7 | 9 |
| 24 | Circuit Analogies in the Search for New Metamaterials: Phenomenology of a Mechanical Diode. Advanced Structured Materials, 2020, , 411-422. | 0.3 | 9 |
| 25 | Homogenization-Based Mechanical Behavior Modeling of Composites Using Mean Green Operators for Infinite Inclusion Patterns or Networks Possibly Co-continuous with a Matrix. Advanced Structured Materials, 2021, , 245-280. | 0.3 | 1 |
| 26 | Do We Really Need Pantographic Structures?. Advanced Structured Materials, 2021, , 253-268. | 0.3 | 0 |