

Melanie Todt

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

207
citations

1478505

6
h-index

1058476

14
g-index

17
all docs

17
docs citations

17
times ranked

231
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Failure mechanism based modelling of impact on fabric reinforced composite laminates based on shell elements. <i>Composites Science and Technology</i> , 2016, 128, 131-137. | 7.8 | 59 |
| 2 | Continuum modeling of van der Waals interactions between carbon onion layers. <i>Carbon</i> , 2011, 49, 1620-1627. | 10.3 | 27 |
| 3 | Elastic properties of graphene obtained by computational mechanical tests. <i>Europhysics Letters</i> , 2013, 103, 68004. | 2.0 | 25 |
| 4 | Thermal expansion of rock-salt cubic AlN. <i>Applied Physics Letters</i> , 2015, 107, . | 3.3 | 25 |
| 5 | Growth limit of carbon onions – A continuum mechanical study. <i>International Journal of Solids and Structures</i> , 2014, 51, 706-715. | 2.7 | 13 |
| 6 | Modeling, simulation, and experiments of high velocity impact on laminated composites. <i>Composite Structures</i> , 2018, 205, 42-48. | 5.8 | 13 |
| 7 | A multiscale approach for modelling impact on woven composites under consideration of the fabric topology. <i>Journal of Composite Materials</i> , 2018, 52, 2859-2874. | 2.4 | 7 |
| 8 | Non-linear dynamic finite element analysis of micro-strut lattice structures made by laser powder bed fusion. <i>Journal of Materials Research and Technology</i> , 2022, 18, 3684-3699. | 5.8 | 7 |
| 9 | Nanomechanical studies of the compressive behavior of carbon fibers. <i>Journal of Materials Science</i> , 2010, 45, 6845-6848. | 3.7 | 6 |
| 10 | Experimental and numerical investigation on pre-stressed lattice structures. <i>Thin-Walled Structures</i> , 2019, 145, 106396. | 5.3 | 6 |
| 11 | Thermomechanical fatigue damage modeling and material parameter calibration for thin film metallizations. <i>International Journal of Fatigue</i> , 2022, 155, 106627. | 5.7 | 6 |
| 12 | Shell-Models for Multi-Layer Carbon Nano-Particles. <i>Advanced Structured Materials</i> , 2011, , 585-602. | 0.5 | 3 |
| 13 | Nonlinear Finite Element Study of Beams with Elasto-Plastic Damage Behavior in the Post-Buckling Regime. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019, 19, e201900248. | 0.2 | 3 |
| 14 | Buckling and postbuckling of architected materials: A review of methods for lattice structures and metal foams. <i>Composites and Advanced Materials</i> , 2021, 30, 263498332110039. | 0.8 | 2 |
| 15 | Numerical and experimental study on the collapse of a triangular cell under compression. <i>International Journal of Solids and Structures</i> , 2022, 236-237, 111295. | 2.7 | 1 |