

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