

Thomas Tancogne-Dejean

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,517
citations

567281

15
h-index

677142

22
g-index

22
all docs

22
docs citations

22
times ranked

1205
citing authors

#	ARTICLE	IF	CITATIONS
1	Additively-manufactured metallic micro-lattice materials for high specific energy absorption under static and dynamic loading. <i>Acta Materialia</i> , 2016, 116, 14-28.	7.9	507
2	3D Plateau-Lattices: An Emerging Class of Low-Density Metamaterial Exhibiting Optimal Isotropic Stiffness. <i>Advanced Materials</i> , 2018, 30, e1803334.	21.0	173
3	Stiffness and specific energy absorption of additively-manufactured metallic BCC metamaterials composed of tapered beams. <i>International Journal of Mechanical Sciences</i> , 2018, 141, 101-116.	6.7	155
4	Elastically-isotropic truss lattice materials of reduced plastic anisotropy. <i>International Journal of Solids and Structures</i> , 2018, 138, 24-39.	2.7	128
5	Elastically-isotropic elementary cubic lattices composed of tailored hollow beams. <i>Extreme Mechanics Letters</i> , 2018, 22, 13-18.	4.1	83
6	Failure in lithium-ion batteries under transverse indentation loading. <i>Journal of Power Sources</i> , 2018, 389, 148-159.	7.8	75
7	The third Sandia fracture challenge: predictions of ductile fracture in additively manufactured metal. <i>International Journal of Fracture</i> , 2019, 218, 5-61.	2.2	62
8	Probabilistic fracture of Ti-6Al-4V made through additive layer manufacturing. <i>International Journal of Plasticity</i> , 2016, 78, 145-172.	8.8	48
9	Rate- and temperature-dependent plasticity of additively manufactured stainless steel 316L: Characterization, modeling and application to crushing of shell-lattices. <i>International Journal of Impact Engineering</i> , 2020, 145, 103671.	5.0	38
10	Hosford-Coulomb ductile failure model for shell elements: Experimental identification and validation for DP980 steel and aluminum 6016-T4. <i>International Journal of Solids and Structures</i> , 2018, 151, 214-232.	2.7	36
11	Heterogeneous random medium plasticity and fracture model of additively-manufactured Ti-6Al-4V. <i>Acta Materialia</i> , 2018, 148, 442-455.	7.9	35
12	Recurrent neural network modeling of the large deformation of lithium-ion battery cells. <i>International Journal of Plasticity</i> , 2021, 146, 103072.	8.8	34
13	Stiffness and Strength of Hexachiral Honeycomb-Like Metamaterials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, .	2.2	32
14	Ductile damage of AA2024-T3 under shear loading: Mechanism analysis through in-situ laminography. <i>Acta Materialia</i> , 2021, 205, 116556.	7.9	26
15	Plasticity and fracture of cast and SLM AlSi10Mg: High-throughput testing and modeling. <i>Additive Manufacturing</i> , 2021, 43, 101998.	3.0	18
16	The third Sandia Fracture Challenge: deterministic and probabilistic modeling of ductile fracture of additively-manufactured material. <i>International Journal of Fracture</i> , 2019, 218, 209-229.	2.2	15
17	Strain rate dependent plasticity of lithium-ion pouch cells: Experiments and simulations. <i>International Journal of Impact Engineering</i> , 2022, 159, 104048.	5.0	15
18	Rate-dependent strength and ductility of binder jetting 3D-printed stainless steel 316L: Experiments and modeling. <i>International Journal of Mechanical Sciences</i> , 2021, 207, 106647.	6.7	12

#	ARTICLE	IF	CITATIONS
19	Design of isotropic porous plates for use in hierarchical plate-lattices. <i>Materials and Design</i> , 2021, 212, 110218.	7.0	11
20	Double-wall ceramic nanolattices: Increased stiffness and recoverability by design. <i>Materials and Design</i> , 2021, 208, 109928.	7.0	6
21	Ceramic/polymer microlattices: Increasing specific energy absorption through sandwich construction. <i>Extreme Mechanics Letters</i> , 2022, 53, 101708.	4.1	6