

Jens Bauer

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

1,920
citations

623188

14
h-index

887659

17
g-index

22
all docs

22
docs citations

22
times ranked

2283
citing authors

#	ARTICLE	IF	CITATIONS
1	Tensegrity Metamaterials: Toward Failure-Resistant Engineering Systems through Delocalized Deformation. <i>Advanced Materials</i> , 2021, 33, e2005647.	11.1	37
2	Humidity-dependent flaw sensitivity in the crack propagation resistance of 3D-printed nano-ceramics. <i>Scripta Materialia</i> , 2021, 194, 113684.	2.6	11
3	Tensegrity Metamaterials: Toward Failure-Resistant Engineering Systems through Delocalized Deformation (Adv. Mater. 10/2021). <i>Advanced Materials</i> , 2021, 33, 2170077.	11.1	0
4	Fabrication of 3D micro-/nanoarchitected materials. , 2020, , 541-576.		2
5	Plate-nanolattices at the theoretical limit of stiffness and strength. <i>Nature Communications</i> , 2020, 11, 1579.	5.8	85
6	Thermal post-curing as an efficient strategy to eliminate process parameter sensitivity in the mechanical properties of two-photon polymerized materials. <i>Optics Express</i> , 2020, 28, 20362.	1.7	20
7	Additive Manufacturing of Ductile, Ultrastrong Polymer-Derived Nanoceramics. <i>Matter</i> , 2019, 1, 1547-1556.	5.0	58
8	Ultrahigh Energy Absorption Multifunctional Spinodal Nanoarchitectures. <i>Small</i> , 2019, 15, e1903834.	5.2	38
9	Programmable Mechanical Properties of Two-Photon Polymerized Materials: From Nanowires to Bulk. <i>Advanced Materials Technologies</i> , 2019, 4, 1900146.	3.0	65
10	The mechanical response of cellular materials with spinodal topologies. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 125, 401-419.	2.3	86
11	Micromechanics of Amorphous Metal/Polymer Hybrid Structures with 3D Cellular Architectures: Size Effects, Buckling Behavior, and Energy Absorption Capability. <i>Small</i> , 2017, 13, 1602514.	5.2	76
12	Nanolattices: An Emerging Class of Mechanical Metamaterials. <i>Advanced Materials</i> , 2017, 29, 1701850.	11.1	356
13	Optimizing the mechanical properties of polymer resists for strong and light-weight micro-truss structures. <i>Extreme Mechanics Letters</i> , 2016, 8, 283-291.	2.0	14
14	The Impact of Size and Loading Direction on the Strength of Architected Lattice Materials. <i>Advanced Engineering Materials</i> , 2016, 18, 1537-1543.	1.6	30
15	Approaching theoretical strength in glassy carbon nanolattices. <i>Nature Materials</i> , 2016, 15, 438-443.	13.3	488
16	Fabrication of 3D Micro-Architected/Nano-Architected Materials. , 2016, , 345-373.		8
17	Push-to-pull tensile testing of ultra-strong nanoscale ceramic-polymer composites made by additive manufacturing. <i>Extreme Mechanics Letters</i> , 2015, 3, 105-112.	2.0	69
18	High-strength cellular ceramic composites with 3D microarchitecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2453-2458.	3.3	470

#	ARTICLE	IF	CITATIONS
19	Humidity-Dependent Flaw Sensitivity in the Crack Propagation Resistance of 3D-Printed Nano-Ceramics. SSRN Electronic Journal, 0, , .	0.4	1