Jens Bauer

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8542821/publications.pdf

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19	1,920	623734	888059
papers	citations	14 h-index	17 g-index

22	22	22	2283
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Approaching theoretical strength in glassy carbonÂnanolattices. Nature Materials, 2016, 15, 438-443.	27.5	488
2	High-strength cellular ceramic composites with 3D microarchitecture. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2453-2458.	7.1	470
3	Nanolattices: An Emerging Class of Mechanical Metamaterials. Advanced Materials, 2017, 29, 1701850.	21.0	356
4	The mechanical response of cellular materials with spinodal topologies. Journal of the Mechanics and Physics of Solids, 2019, 125, 401-419.	4.8	86
5	Plate-nanolattices at the theoretical limit of stiffness and strength. Nature Communications, 2020, 11, 1579.	12.8	85
6	Micromechanics of Amorphous Metal/Polymer Hybrid Structures with 3D Cellular Architectures: Size Effects, Buckling Behavior, and Energy Absorption Capability. Small, 2017, 13, 1602514.	10.0	76
7	Push-to-pull tensile testing of ultra-strong nanoscale ceramicâ€“polymer composites made by additive manufacturing. Extreme Mechanics Letters, 2015, 3, 105-112.	4.1	69
8	Programmable Mechanical Properties of Twoâ€Photon Polymerized Materials: From Nanowires to Bulk. Advanced Materials Technologies, 2019, 4, 1900146.	5.8	65
9	Additive Manufacturing of Ductile, Ultrastrong Polymer-Derived Nanoceramics. Matter, 2019, 1, 1547-1556.	10.0	58
10	Ultrahigh Energy Absorption Multifunctional Spinodal Nanoarchitectures. Small, 2019, 15, e1903834.	10.0	38
11	Tensegrity Metamaterials: Toward Failureâ€Resistant Engineering Systems through Delocalized Deformation. Advanced Materials, 2021, 33, e2005647.	21.0	37
12	The Impact of Size and Loading Direction on the Strength of Architected Lattice Materials. Advanced Engineering Materials, 2016, 18, 1537-1543.	3.5	30
13	Thermal post-curing as an efficient strategy to eliminate process parameter sensitivity in the mechanical properties of two-photon polymerized materials. Optics Express, 2020, 28, 20362.	3.4	20
14	Optimizing the mechanical properties of polymer resists for strong and light-weight micro-truss structures. Extreme Mechanics Letters, 2016, 8, 283-291.	4.1	14
15	Humidity-dependent flaw sensitivity in the crack propagation resistance of 3D-printed nano-ceramics. Scripta Materialia, 2021, 194, 113684.	5.2	11
16	Fabrication of 3D Micro-Architected/Nano-Architected Materials. , 2016, , 345-373.		8
17	Fabrication of 3D micro-/nanoarchitected materials. , 2020, , 541-576.		2
18	Humidity-Dependent Flaw Sensitivity in the Crack Propagation Resistance of 3D-Printed Nano-Ceramics. SSRN Electronic Journal, 0, , .	0.4	1

#	Article	IF	Citations
19	Tensegrity Metamaterials: Tensegrity Metamaterials: Toward Failureâ€Resistant Engineering Systems through Delocalized Deformation (Adv. Mater. 10/2021). Advanced Materials, 2021, 33, 2170077.	21.0	0