

# Jens Bauer

## List of Publications by Year in descending order

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

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	Approaching theoretical strength in glassy carbon nanolattices. <i>Nature Materials</i> , 2016, 15, 438-443.	13.3	488
2	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
3	Nanolattices: An Emerging Class of Mechanical Metamaterials. <i>Advanced Materials</i> , 2017, 29, 1701850.	11.1	356
4	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
5	Plate-nanolattices at the theoretical limit of stiffness and strength. <i>Nature Communications</i> , 2020, 11, 1579.	5.8	85
6	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
7	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
8	Programmable Mechanical Properties of Two-Photon Polymerized Materials: From Nanowires to Bulk. <i>Advanced Materials Technologies</i> , 2019, 4, 1900146.	3.0	65
9	Additive Manufacturing of Ductile, Ultrastrong Polymer-Derived Nanoceramics. <i>Matter</i> , 2019, 1, 1547-1556.	5.0	58
10	Ultrahigh Energy Absorption Multifunctional Spinodal Nanoarchitectures. <i>Small</i> , 2019, 15, e1903834.	5.2	38
11	Tensegrity Metamaterials: Toward Failure-Resistant Engineering Systems through Delocalized Deformation. <i>Advanced Materials</i> , 2021, 33, e2005647.	11.1	37
12	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
13	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
14	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
15	Humidity-dependent flaw sensitivity in the crack propagation resistance of 3D-printed nano-ceramics. <i>Scripta Materialia</i> , 2021, 194, 113684.	2.6	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. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1

#	ARTICLE	IF	CITATIONS
19	Tensegrity Metamaterials: Tensegrity Metamaterials: Toward Failure-Resistant Engineering Systems through Delocalized Deformation (Adv. Mater. 10/2021). Advanced Materials, 2021, 33, 2170077.	11.1	0