

Jana Wilmers

List of Publications by Year in descending order

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Version: 2024-02-01

11
papers

437
citations

1163117

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1281871

11
g-index

11
all docs

11
docs citations

11
times ranked

470
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of 3D representative volume elements for heterogeneous materials: A review. Progress in Materials Science, 2018, 96, 322-384.	32.8	308
2	Nature's design solutions in dental enamel: Uniting high strength and extreme damage resistance. Acta Biomaterialia, 2020, 107, 1-24.	8.3	48
3	Property optimization of porous metallic glasses via structural design. Materials Letters, 2014, 134, 306-310.	2.6	17
4	Anomalous compliance of interpenetrating-phase composite of Ti and Mg synthesized by liquid metal dealloying. Scripta Materialia, 2021, 194, 113660.	5.2	17
5	Nanoporous metal based composites: Giving polymers strength and making metals move. Journal of the Mechanics and Physics of Solids, 2020, 137, 103848.	4.8	11
6	Simulation of non-classical diffusion in polymers. Heat and Mass Transfer, 2014, 50, 1543-1552.	2.1	10
7	Hierarchical Microstructure of Tooth Enameloid in Two Lamniform Shark Species, Carcharias taurus and Isurus oxyrinchus. Nanomaterials, 2021, 11, 969.	4.1	9
8	Orientation-dependent micromechanical behavior of nacre: In situ TEM experiments and finite element simulations. Acta Biomaterialia, 2022, 147, 120-128.	8.3	8
9	Functionalisation of metal-polymer-nanocomposites: Chemoelectromechanical coupling and charge carrier transport. Extreme Mechanics Letters, 2018, 21, 57-64.	4.1	4
10	Strain relief by controlled cracking in highly stretchable multi-layer composites. Extreme Mechanics Letters, 2022, 54, 101724.	4.1	3
11	Influence of the microstructure on effective mechanical properties of carbon nanotube composites. Coupled Systems Mechanics, 2017, 6, 1-15.	0.4	2