

# Jana Wilmers

## List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Strain relief by controlled cracking in highly stretchable multi-layer composites. <i>Extreme Mechanics Letters</i> , 2022, 54, 101724.	2.0	3
2	Orientation-dependent micromechanical behavior of nacre: In situ TEM experiments and finite element simulations. <i>Acta Biomaterialia</i> , 2022, 147, 120-128.	4.1	8
3	Anomalous compliance of interpenetrating-phase composite of Ti and Mg synthesized by liquid metal dealloying. <i>Scripta Materialia</i> , 2021, 194, 113660.	2.6	17
4	Hierarchical Microstructure of Tooth Enameloid in Two Lamniform Shark Species, <i>Carcharias taurus</i> and <i>Isurus oxyrinchus</i> . <i>Nanomaterials</i> , 2021, 11, 969.	1.9	9
5	Nanoporous metal based composites: Giving polymers strength and making metals move. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 137, 103848.	2.3	11
6	Nature's design solutions in dental enamel: Uniting high strength and extreme damage resistance. <i>Acta Biomaterialia</i> , 2020, 107, 1-24.	4.1	48
7	Generation of 3D representative volume elements for heterogeneous materials: A review. <i>Progress in Materials Science</i> , 2018, 96, 322-384.	16.0	308
8	Functionalisation of metal-polymer-nanocomposites: Chemoelectromechanical coupling and charge carrier transport. <i>Extreme Mechanics Letters</i> , 2018, 21, 57-64.	2.0	4
9	Influence of the microstructure on effective mechanical properties of carbon nanotube composites. <i>Coupled Systems Mechanics</i> , 2017, 6, 1-15.	0.4	2
10	Property optimization of porous metallic glasses via structural design. <i>Materials Letters</i> , 2014, 134, 306-310.	1.3	17
11	Simulation of non-classical diffusion in polymers. <i>Heat and Mass Transfer</i> , 2014, 50, 1543-1552.	1.2	10