Yizhou Nie

List of Publications by Year
in descending order

16	139	1163117 8	1281871 11
papers	citations	h-index	g-index

16	16	16	134
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Real-time visualization of dynamic fractures in porcine bones and the loading-rate effect on their fracture toughness. Journal of the Mechanics and Physics of Solids, 2019, 131, 358-371.	4.8	21
2	In Situ Observation of Adiabatic Shear Band Formation in Aluminum Alloys. Experimental Mechanics, 2020, 60, 153-163.	2.0	19
3	In-situ observation of cutting-induced failure processes of single high-performance fibers inside a SEM. Composites Part A: Applied Science and Manufacturing, 2020, 131, 105767.	7.6	17
4	Investigation of dynamic fracture behavior of additively manufactured Al-10Si-Mg using high-speed synchrotron X-ray imaging. Additive Manufacturing, 2019, 30, 100878.	3.0	12
5	High-speed X-ray visualization of dynamic crack initiation and propagation in bone. Acta Biomaterialia, 2019, 90, 278-286.	8.3	11
6	Failure behaviors of single high-performance fibers under transverse dynamic cut. International Journal of Impact Engineering, 2020, 144, 103660.	5.0	10
7	The Effect of Projectile Nose Shape on the Critical Velocity of High-Performance Yarn. Fibers, 2019, 7, 29.	4.0	8
8	The effect of loading direction on the fracture behaviors of cortical bone at a dynamic loading rate. Journal of the Mechanics and Physics of Solids, 2020, 142, 104015.	4.8	8
9	Dynamic Transverse Debonding of a Single Fiber. Journal of Dynamic Behavior of Materials, 2016, 2, 521-531.	1.7	7
10	Critical Velocity of High-Performance Yarn Transversely Impacted by Razor Blade. Fibers, 2018, 6, 95.	4.0	5
11	A Microscopic Experimental Method Transversely Loading on Single High-Performance Fibers. Experimental Mechanics, 2019, 59, 669-679.	2.0	5
12	Transverse impact by RCCs on S-glass and KevlarÂ® FRC strips. Composites Part A: Applied Science and Manufacturing, 2021, 146, 106425.	7.6	5
13	Dynamic crack propagation from a circular defect in a unidirectional carbon fiber reinforced plastic composite. Journal of Composite Materials, 2018, 52, 3539-3547.	2.4	4
14	Cyclic tensile response of a pre-tensioned polyurethane. Mechanics of Time-Dependent Materials, 2018, 22, 207-219.	4.4	3
15	In-Situ Visualization of Tensile Failure in Additively Manufactured 316ÂL Stainless Steel. Experimental Mechanics, 2019, 59, 805-818.	2.0	3
16	Transverse Loading on Single High-Performance Fibers by Round-Head Indenters and the Fibersâ€™ Failure Visualization. Fibers, 2022, 10, 48.	4.0	1