

Weidong Liu

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

497
citations

858243

12
h-index

759306

22
g-index

29
all docs

29
docs citations

29
times ranked

503
citing authors

#	ARTICLE	IF	CITATIONS
1	Amorphization and dislocation evolution mechanisms of single crystalline 6H-SiC. Acta Materialia, 2020, 182, 60-67.	3.8	73
2	Surface roughness effect on the friction and wear of bulk metallic glasses. Wear, 2015, 332-333, 1231-1237.	1.5	61
3	Revealing the deformation mechanisms of 6H-silicon carbide under nano-cutting. Computational Materials Science, 2017, 137, 282-288.	1.4	52
4	Precision glass molding: Toward an optimal fabrication of optical lenses. Frontiers of Mechanical Engineering, 2017, 12, 3-17.	2.5	45
5	Understanding the friction and wear of KDP crystals by nanoscratching. Wear, 2015, 332-333, 900-906.	1.5	37
6	Effect of structural anisotropy on the dislocation nucleation and evolution in 6H SiC under nanoindentation. Ceramics International, 2019, 45, 14229-14237.	2.3	24
7	Revealing Structural Relaxation of Optical Glass Through the Temperature Dependence of Young's Modulus. Journal of the American Ceramic Society, 2014, 97, 3475-3482.	1.9	21
8	Structural anisotropy effect on the nanoscratching of monocrystalline 6H-silicon carbide. Wear, 2021, 476, 203677.	1.5	20
9	Characterisation of high thermal conductivity thin-film substrate systems and their interface thermal resistance. Surface and Coatings Technology, 2018, 334, 233-242.	2.2	19
10	Thermoforming mechanism of precision glass moulding. Applied Optics, 2015, 54, 6841.	2.1	18
11	Critical loading conditions of amorphization, phase transformation, and dilation cracking in 6H-silicon carbide. Journal of the American Ceramic Society, 2018, 101, 3585-3596.	1.9	15
12	A New Polymer-Based Mechanical Metamaterial with Tailorable Large Negative Poisson's Ratios. Polymers, 2020, 12, 1492.	2.0	15
13	Nano-milling on monocrystalline copper: A molecular dynamics simulation. Machining Science and Technology, 2017, 21, 67-85.	1.4	12
14	On the adhesion between metallic glass and dies during thermoplastic forming. Journal of Alloys and Compounds, 2017, 711, 235-242.	2.8	12
15	On the plasticity event in metallic glass. Philosophical Magazine Letters, 2013, 93, 158-165.	0.5	11
16	Mechanisms of the Complex Thermo-Mechanical Behavior of Polymer Glass Across a Wide Range of Temperature Variations. Polymers, 2018, 10, 1153.	2.0	8
17	Failure Mechanisms of CVD Diamond Wafers and Thin Films During Polishing. Machining Science and Technology, 2015, 19, 152-173.	1.4	7
18	Metallic glass hardening after thermoplastic forming. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 725, 181-186.	2.6	7

#	ARTICLE	IF	CITATIONS
19	Elastic modulus evolution of rocks under heating—cooling cycles. Scientific Reports, 2020, 10, 13835.	1.6	7
20	Characterization of interface stresses and lubrication of rough elastic surfaces under ball-on-disc rolling. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2017, 231, 1552-1573.	1.0	6
21	On the Constitutive Models for Ultra-High Strain Rate Deformation of Metals. International Journal of Automotive Technology, 2019, 20, 31-37.	0.7	6
22	On the Nano/Micro-Mechanics of Metallic Glass. Critical Reviews in Solid State and Materials Sciences, 2015, 40, 137-163.	6.8	5
23	Growth characteristics of spherical titanium oxide nanoparticles during the rapid gaseous detonation reaction. Particuology, 2016, 26, 102-107.	2.0	5
24	Synthesis of polymorphic titanium oxide nanoparticles by a rapid gas-phase chemical reaction. Mendeleev Communications, 2016, 26, 157-159.	0.6	4
25	Numerical optimization platform for precision glass molding by the simplex algorithm. Applied Optics, 2017, 56, 3245.	2.1	3
26	Finite Element Analysis of the 3D Method for Characterising High Thermal Conductivity Ultra-Thin Film/Substrate System. Coatings, 2019, 9, 87.	1.2	3
27	Molecular dynamics simulation of multi-groove nano-milling. Machining Science and Technology, 2019, 23, 455-476.	1.4	1
28	0610 A comparative study on Gao-Zhang and Johnson-Cook constitutive models. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2015, 2015.8, _0610-1_-_0610-5_.	0.0	0