Xiaoming Liu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Dynamic Impact of High-Density Aluminum Foam. Acta Mechanica Solida Sinica, 2022, 35, 198-214.	1.0	2
2	Effect of tool size on the cutting of aluminum film with micrometer-level thickness. International Journal of Solids and Structures, 2022, 241, 111514.	1.3	2
3	Revisiting the interaction of highly nonlinear solitary wave with wall: From infinite to finite the third the thickness. International Journal of Solids and Structures, 2022, 241, 111509.	1.3	3
4	Breakdown of Archard law due to transition of wear mechanism from plasticity to fracture. Tribology International, 2022, 173, 107660.	3.0	14
5	Multiscale study of the dynamic friction coefficient due to asperity plowing. Friction, 2021, 9, 822-839.	3.4	19
6	Effect of plasticity on nanoscale wear of third-body particles. Tribology International, 2021, 155, 106739.	3.0	6
7	Effect of plasticity on the coefficient of restitution of an elastoplastic sphere impacting an elastic plate. International Journal of Solids and Structures, 2021, 222-223, 111036.	1.3	3
8	Effect of plasticity and adhesion on the stick-slip transition at nanoscale friction. Tribology International, 2021, 164, 107230.	3.0	9
9	Atomistic simulations of tensile deformation in a CrCoNi medium-entropy alloy with heterogeneous grain structures. Materialia, 2020, 9, 100565.	1.3	36
10	An elasto-plastic contact model for conformal contacts between cylinders. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 1837-1845.	1.0	9
11	Semi-analytical model of the vertical impact of a 316 stainless steel rod. International Journal of Impact Engineering, 2020, 146, 103694.	2.4	4
12	Effect of plasticity on dynamic impact in a journal-bearing system: A planar case. Mechanism and Machine Theory, 2020, 154, 104034.	2.7	13
13	Full-scale finite element analysis of deformation and contact of a wire-wrapped fuel bundle subject to realistic thermal and irradiation conditions. Nuclear Engineering and Design, 2020, 364, 110676.	0.8	3
14	A phase-field model of thermo-elastic coupled brittle fracture with explicit time integration. Computational Mechanics, 2020, 65, 1305-1321.	2.2	60
15	A thermo-elastic-plastic phase-field model for simulating the evolution and transition of adiabatic shear band. Part II. Dynamic collapse of thick-walled cylinder. Engineering Fracture Mechanics, 2020, 231, 107027.	2.0	25
16	A thermo-elastic-plastic phase-field model for simulating the evolution and transition of adiabatic shear band. Part I. Theory and model calibration. Engineering Fracture Mechanics, 2020, 232, 107028.	2.0	35
17	Influences of Morphology Parameters on the Contact Behavior of a Steel Interface. International Journal of Applied Mechanics, 2020, 12, 2050009.	1.3	2
18	Frictional Detachment Between Slender Whisker and Round Obstacle. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .	1.1	0

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19	Boundary effect on the dynamic response of a 7-hexagon fuel ducts submerged in fluid. Nuclear Engineering and Design, 2020, 370, 110870.	0.8	1
20	Response of an infinite beam resting on the tensionless Winkler foundation subjected to an axial and a transverse concentrated loads. European Journal of Mechanics, A/Solids, 2019, 77, 103819.	2.1	15
21	The effects of initial void and dislocation on the onset of plasticity in copper single crystals. Journal of Applied Physics, 2019, 126, 165104.	1.1	7
22	Predicting the flow stress and dominant yielding mechanisms: analytical models based on discrete dislocation plasticity. Scientific Reports, 2019, 9, 20422.	1.6	15
23	Investigation of grain boundary and orientation effects in polycrystalline metals by a dislocation-based crystal plasticity model. Computational Materials Science, 2019, 159, 86-94.	1.4	15
24	Plastic Effect on the Sliding Inception Between a Cylinder and a Rigid Flat. Acta Mechanica Solida Sinica, 2019, 32, 1-16.	1.0	5
25	Discrete Greenwood–Williamson Modeling of Rough Surface Contact Accounting for Three-Dimensional Sinusoidal Asperities and Asperity Interaction. Journal of Tribology, 2019, 141, .	1.0	12
26	Experimental Studies on Strengthening and Failure Mechanism for the Metal/Silicone Rubber/Metal Bonding System. International Journal of Applied Mechanics, 2018, 10, 1850029.	1.3	6
27	Response of an infinite beam on a bilinear elastic foundation: Bridging the gap between the Winkler and tensionless foundation models. European Journal of Mechanics, A/Solids, 2018, 71, 394-403.	2.1	11
28	Statistical model of rough surface contact accounting for size-dependent plasticity and asperity interaction. Journal of the Mechanics and Physics of Solids, 2017, 106, 1-14.	2.3	59
29	Strain gradient plasticity analysis of elasto-plastic contact between rough surfaces. Journal of the Mechanics and Physics of Solids, 2016, 96, 18-28.	2.3	39
30	A numerical study on dynamic shear rupture along frictional faults. International Journal of Damage Mechanics, 2016, 25, 69-86.	2.4	2
31	Finite element modelling of the instability in rapid fracture of graphene. Engineering Fracture Mechanics, 2015, 141, 111-119.	2.0	19
32	Ploughing friction and nanohardness dependent on the tip tilt in nano-scratch test for single crystal gold. Computational Materials Science, 2015, 110, 54-61.	1.4	11
33	Interference effect on friction behavior of asperities on single crystal copper. Tribology International, 2015, 81, 169-178.	3.0	9
34	Modeling of dynamic crack branching by enhanced extended finite element method. Computational Mechanics, 2014, 54, 489-502.	2.2	66
35	Grain size effect on the hardness of nanocrystal measured by the nanosize indenter. Applied Surface Science, 2013, 279, 159-166.	3.1	83
36	Nanoindentation Size Effect Interpreted by the Dislocation Nucleation Mechanism. Journal of Computational and Theoretical Nanoscience, 2013, 10, 714-718.	0.4	0

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37	The study of grain boundary density effect on multi-grain thin film under tension. Computational Materials Science, 2012, 53, 175-186.	1.4	7
38	Nanoscale Friction Behavior of the Ni-Film/Substrate System Under Scratching Using MD Simulation. Tribology Letters, 2012, 46, 167-178.	1.2	23
39	Yielding behavior of copper nanowire in the presence of vacancies. Science China: Physics, Mechanics and Astronomy, 2012, 55, 1010-1017.	2.0	7
40	Wedge indentation of a thin film on a substrate based on micromorphic plasticity. Acta Mechanica, 2011, 221, 133-145.	1.1	3
41	Bauschinger and size effects in thin-film plasticity due to defect-energy of geometrical necessary dislocations. Acta Mechanica Sinica/Lixue Xuebao, 2011, 27, 266-276.	1.5	5
42	A dislocation dynamics based higher-order crystal plasticity model and applications on confined thin-film plasticity. International Journal of Plasticity, 2011, 27, 201-216.	4.1	56
43	Atypical three-stage-hardening mechanical behavior of Cu single-crystal micropillars. Scripta Materialia, 2009, 60, 594-597.	2.6	33