

Miaolin Feng

List of Publications by Year in descending order

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papers

747
citations

516215

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24
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53
all docs

53
docs citations

53
times ranked

437
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of Fatigue Crack Propagation. Journal of Engineering Materials and Technology, Transactions of the ASME, 2004, 126, 77-86.	0.8	73
2	Molecular simulation of microstructure evolution and plastic deformation of nanocrystalline CoCrFeMnNi high-entropy alloy under tension and compression. Journal of Alloys and Compounds, 2021, 851, 156923.	2.8	59
3	Effects of microstructure and temperature on the mechanical properties of nanocrystalline CoCrFeMnNi high entropy alloy under nanoscratching using molecular dynamics simulation. Journal of Alloys and Compounds, 2021, 871, 159516.	2.8	43
4	A study of fatigue damage development in extruded Mg-Gd-Y magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 589, 209-216.	2.6	40
5	Molecular dynamics-based analysis of the effect of voids and HCP-Phase inclusion on deformation of single-crystal CoCrFeMnNi high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 791, 139444.	2.6	35
6	Molecular dynamics-based analysis of the effect of temperature and strain rate on deformation of nanocrystalline CoCrFeMnNi high-entropy alloy. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	31
7	Creep and fatigue behavior of 316L stainless steel at room temperature: Experiments and a revisit of a unified viscoplasticity model. International Journal of Fatigue, 2018, 112, 70-77.	2.8	30
8	Mechanical behavior and microstructural evolution in rolled Mg-3Al-1Zn-0.5Mn alloy under large strain simple shear. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 585-591.	2.6	29
9	Mechanical Behavior and Microstructure Evolution of a Rolled Magnesium Alloy AZ31B Under Low Stress Triaxiality. Journal of Materials Science and Technology, 2016, 32, 1282-1288.	5.6	28
10	Effect of crystallographic orientation on mechanical properties of single-crystal CoCrFeMnNi high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141196.	2.6	28
11	A modified unified viscoplasticity model considering time-dependent kinematic hardening for stress relaxation with effect of loading history. International Journal of Mechanical Sciences, 2017, 133, 883-892.	3.6	24
12	Study of a modified non-unified model for time-dependent behavior of metal materials. Mechanics of Materials, 2017, 113, 69-76.	1.7	22
13	The effect of Cu and Mn elements on the mechanical properties of single-crystal CoCrFeNi-based high-entropy alloy under nanoindentation. Journal of Applied Physics, 2021, 129, .	1.1	22
14	Modelling of creep and plasticity deformation considering creep damage and kinematic hardening. Engineering Fracture Mechanics, 2019, 218, 106582.	2.0	21
15	Electromechanical coupling characteristics of double-layer piezoelectric quasicrystal actuators. International Journal of Mechanical Sciences, 2021, 196, 106293.	3.6	18
16	Effects of initial {10-12} twins on cyclic deformation and fatigue of magnesium alloy at low strain amplitudes. Materials Characterization, 2019, 149, 118-123.	1.9	17
17	Singular fields near a sharp V-notch for power law creep material. International Journal of Fracture, 2011, 168, 159-166.	1.1	16
18	A study of a cyclic viscoplasticity model based on hyperbolic sine form for the inelastic strain rate. International Journal of Mechanical Sciences, 2015, 101-102, 155-160.	3.6	14

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19	Failure of silicon nitride ceramic flotation spheres at critical state of implosion. Applied Ocean Research, 2020, 97, 102080.	1.8	13
20	Study of age-related changes in Middle ear transfer function. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 1093-1102.	0.9	12
21	Size effect on cyclic torsion of micro-polycrystalline copper considering geometrically necessary dislocation and strain gradient. International Journal of Fatigue, 2018, 117, 292-298.	2.8	11
22	Atomistic simulation of nanoindentation response of dual-phase nanocrystalline CoCrFeMnNi high-entropy alloy. Journal of Applied Physics, 2021, 130, .	1.1	11
23	Effect of geometrically necessary dislocations on inelastic strain rate for torsion stress relaxation of polycrystalline copper in micro scale. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 726, 137-142.	2.6	10
24	Influence of nanoscale deformation twins near a slant edge crack tip on crack blunting in nanocrystalline metals. Engineering Fracture Mechanics, 2017, 184, 286-295.	2.0	9
25	Atomistic simulation of deformation behaviors polycrystalline CoCrFeMnNi high-entropy alloy under uniaxial loading. International Journal of Refractory Metals and Hard Materials, 2021, 95, 105415.	1.7	9
26	An Approach for Fatigue Life Prediction. Journal of Engineering Materials and Technology, Transactions of the ASME, 2007, 129, 182-189.	0.8	8
27	Application of Drucker's Prager plasticity to predict fracture in rectangular cup drawing of AZ31 alloy sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 532, 316-324.	2.6	8
28	Study on the crack-inclusion interaction with coupled mechanical and thermal strains. Theoretical and Applied Fracture Mechanics, 2015, 75, 39-43.	2.1	8
29	The mode I crack-inclusion interaction in orthotropic medium. Engineering Fracture Mechanics, 2015, 136, 185-194.	2.0	7
30	Combined effects of cooperative grain boundary sliding and migration and reinforced particles on crack growth in fine-grained Mg alloys. Journal of Alloys and Compounds, 2018, 749, 705-714.	2.8	7
31	Finite element implementation of non-unified visco-plasticity model considering static recovery. Mechanics of Time-Dependent Materials, 2020, 24, 59-72.	2.3	7
32	An experimental study of creep-ratchetting behavior of rolled AZ31B magnesium alloy at room temperature. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 417-428.	1.7	7
33	Three phases fluid-structure interactive simulations of the deepsea ceramic sphere's failure and underwater implosion. Ocean Engineering, 2022, 245, 110494.	1.9	7
34	Fatigue life prediction of sus 630 (H900) steel under high cycle loading. Acta Mechanica Solida Sinica, 2013, 26, 584-591.	1.0	6
35	STUDY ON THE ROLE OF OSSICULAR JOINT USING FINITE ELEMENT METHOD. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650041.	0.3	6
36	Stress-dependence of dislocation dissociation, nucleation and annihilation in elastically anisotropic Cu. International Journal of Plasticity, 2021, 138, 102927.	4.1	6

#	ARTICLE	IF	CITATIONS
37	Study on the plane stress mode II crackâ€™inclusion interaction with coupled mechanical and thermal strains. <i>Archive of Applied Mechanics</i> , 2015, 85, 725-733.	1.2	5
38	The effect of stress rate on ratchetting behavior of rolled AZ31B magnesium alloy at 393 K and room temperature. <i>Materials Research Express</i> , 2019, 6, 086510.	0.8	5
39	Physically short fatigue crack growth from notch described by plasticity-corrected stress intensity factor. <i>International Journal of Mechanical Sciences</i> , 2020, 176, 105544.	3.6	5
40	Responses of multilayered two-dimensional decagonal quasicrystal circular nanoplates with initial stresses and nanoscale interactions. <i>European Journal of Mechanics, A/Solids</i> , 2021, 87, 104216.	2.1	4
41	Fatigue analysis of tympanic membrane after ossiculoplasty. <i>Acta Oto-Laryngologica</i> , 2017, 137, 679-685.	0.3	3
42	Effect of void defect on <i>c</i> -axis deformation of single-crystal Ti under uniaxial stress conditions: Evolution of tension twinning and dislocations. <i>Journal of Materials Research</i> , 2019, 34, 3699-3706.	1.2	3
43	Pull-in instability and vibration of quasicrystal circular nanoplate actuator based on surface effect and nonlocal elastic theory. <i>Archive of Applied Mechanics</i> , 0, , 1.	1.2	3
44	Stability analysis of quasicrystal torsion micromirror actuator based on the strain gradient theory. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	1.5	3
45	A kinematic hardening constitutive model for the uniaxial cyclic stressâ€™strain response of magnesium sheet alloys at room temperature. <i>Materials Research Express</i> , 2017, 4, 116513.	0.8	2
46	Effect of nanotwin near a branched crack tip on crack blunting in deformed nanocrystalline materials. <i>Acta Mechanica</i> , 2018, 229, 3223-3234.	1.1	2
47	Crack interaction with nanoscale twinning near a second-phase particle in fine-grained magnesium alloy. <i>Mathematics and Mechanics of Solids</i> , 2019, 24, 1243-1255.	1.5	2
48	Molecular Dynamics-Based Tension Simulation of Plastic Deformation of 2D Nanotwinned Copper Under Uniaxial Stress Conditions: Evolution of Dislocations and Secondary Twinning. <i>Metals and Materials International</i> , 2022, 28, 1611-1619.	1.8	2
49	Bending stress relaxation of microscale single-crystal copper at room temperature: An in situ SEM study. <i>European Journal of Mechanics, A/Solids</i> , 2021, 90, 104377.	2.1	2
50	Electricâ€™elastic analysis of multilayered two-dimensional decagonal quasicrystal circular plates with simply supported or clamped boundary conditions. <i>Mathematics and Mechanics of Solids</i> , 2021, 26, 1337-1353.	1.5	2
51	Martensitic Transformation Effect on the Dislocation Emission from a Semi-infinite Crack Tip in Nanocomposites. <i>Acta Mechanica Solida Sinica</i> , 2019, 32, 160-172.	1.0	1
52	Morphology of human ear canal and its effect on sound transmission. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, 38, e3567.	1.0	1
53	Time-dependent uniaxial behavior of rolled magnesium alloy AZ31B at 393 K and room temperature. <i>Mechanics of Time-Dependent Materials</i> , 2020, , 1.	2.3	0