

# Miaolin Feng

## List of Publications by Year in descending order

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53  
papers

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516215  
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times ranked

437  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | 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         |
| 2  | 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         |
| 3  | Three phases fluid-structure interactive simulations of the deepsea ceramic sphere's failure and underwater implosion. <i>Ocean Engineering</i> , 2022, 245, 110494.  | 1.9 | 7         |
| 4  | 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         |
| 5  | Molecular simulation of microstructure evolution and plastic deformation of nanocrystalline CoCrFeMnNi high-entropy alloy under tension and compression. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156923.                                | 2.8 | 59        |
| 6  | Atomistic simulation of deformation behaviors polycrystalline CoCrFeMnNi high-entropy alloy under uniaxial loading. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021, 95, 105415.  | 1.7 | 9         |
| 7  | Stress-dependence of dislocation dissociation, nucleation and annihilation in elastically anisotropic Cu. <i>International Journal of Plasticity</i> , 2021, 138, 102927.   | 4.1 | 6         |
| 8  | Electromechanical coupling characteristics of double-layer piezoelectric quasicrystal actuators. <i>International Journal of Mechanical Sciences</i> , 2021, 196, 106293.   | 3.6 | 18        |
| 9  | Effect of crystallographic orientation on mechanical properties of single-crystal CoCrFeMnNi high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 814, 141196. | 2.6 | 28        |
| 10 | The effect of Cu and Mn elements on the mechanical properties of single-crystal CoCrFeNi-based high-entropy alloy under nanoindentation. <i>Journal of Applied Physics</i> , 2021, 129, .   | 1.1 | 22        |
| 11 | 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         |
| 12 | Effects of microstructure and temperature on the mechanical properties of nanocrystalline CoCrFeMnNi high entropy alloy under nanoscratching using molecular dynamics simulation. <i>Journal of Alloys and Compounds</i> , 2021, 871, 159516.       | 2.8 | 43        |
| 13 | Atomistic simulation of nanoindentation response of dual-phase nanocrystalline CoCrFeMnNi high-entropy alloy. <i>Journal of Applied Physics</i> , 2021, 130, .  | 1.1 | 11        |
| 14 | 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         |
| 15 | 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         |
| 16 | Finite element implementation of non-unified visco-plasticity model considering static recovery. <i>Mechanics of Time-Dependent Materials</i> , 2020, 24, 59-72.  | 2.3 | 7         |
| 17 | An experimental study of creepâ€‘ratchetting behavior of rolled AZ31B magnesium alloy at room temperature. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 417-428.   | 1.7 | 7         |
| 18 | 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         |

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| 19 | Molecular dynamics-based analysis of the effect of temperature and strain rate on deformation of nanocrystalline CoCrFeMnNi high-entropy alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.  | 1.1 | 31        |
| 20 | Molecular dynamics-based analysis of the effect of voids and HCP-Phase inclusion on deformation of single-crystal CoCrFeMnNi high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 791, 139444. | 2.6 | 35        |
| 21 | 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         |
| 22 | Failure of silicon nitride ceramic flotation spheres at critical state of implosion. <i>Applied Ocean Research</i> , 2020, 97, 102080.  | 1.8 | 13        |
| 23 | 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         |
| 24 | Modelling of creep and plasticity deformation considering creep damage and kinematic hardening. <i>Engineering Fracture Mechanics</i> , 2019, 218, 106582.  | 2.0 | 21        |
| 25 | Study of age-related changes in Middle ear transfer function. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 1093-1102.   | 0.9 | 12        |
| 26 | Effect of void defect on <i>x</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         |
| 27 | Effects of initial {10-12} twins on cyclic deformation and fatigue of magnesium alloy at low strain amplitudes. <i>Materials Characterization</i> , 2019, 149, 118-123.   | 1.9 | 17        |
| 28 | 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         |
| 29 | 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         |
| 30 | Creep and fatigue behavior of 316L stainless steel at room temperature: Experiments and a revisit of a unified viscoplasticity model. <i>International Journal of Fatigue</i> , 2018, 112, 70-77.   | 2.8 | 30        |
| 31 | Effect of geometrically necessary dislocations on inelastic strain rate for torsion stress relaxation of polycrystalline copper in micro scale. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 726, 137-142. | 2.6 | 10        |
| 32 | Combined effects of cooperative grain boundary sliding and migration and reinforced particles on crack growth in fine-grained Mg alloys. <i>Journal of Alloys and Compounds</i> , 2018, 749, 705-714.   | 2.8 | 7         |
| 33 | Mechanical behavior and microstructural evolution in rolled Mg-3Al-1Zn-0.5Mn alloy under large strain simple shear. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 585-591.                             | 2.6 | 29        |
| 34 | 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         |
| 35 | Size effect on cyclic torsion of micro-polycrystalline copper considering geometrically necessary dislocation and strain gradient. <i>International Journal of Fatigue</i> , 2018, 117, 292-298.  | 2.8 | 11        |
| 36 | Fatigue analysis of tympanic membrane after ossiculoplasty. <i>Acta Oto-Laryngologica</i> , 2017, 137, 679-685.   | 0.3 | 3         |

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|----|--|-----|-----------|
| 37 | A modified unified viscoplasticity model considering time-dependent kinematic hardening for stress relaxation with effect of loading history. <i>International Journal of Mechanical Sciences</i> , 2017, 133, 883-892.                          | 3.6 | 24        |
| 38 | Study of a modified non-unified model for time-dependent behavior of metal materials. <i>Mechanics of Materials</i> , 2017, 113, 69-76.  | 1.7 | 22        |
| 39 | Influence of nanoscale deformation twins near a slant edge crack tip on crack blunting in nanocrystalline metals. <i>Engineering Fracture Mechanics</i> , 2017, 184, 286-295.  | 2.0 | 9         |
| 40 | A kinematic hardening constitutive model for the uniaxial cyclic stress-strain response of magnesium sheet alloys at room temperature. <i>Materials Research Express</i> , 2017, 4, 116513.  | 0.8 | 2         |
| 41 | STUDY ON THE ROLE OF OSSICULAR JOINT USING FINITE ELEMENT METHOD. <i>Journal of Mechanics in Medicine and Biology</i> , 2016, 16, 1650041.   | 0.3 | 6         |
| 42 | Mechanical Behavior and Microstructure Evolution of a Rolled Magnesium Alloy AZ31B Under Low Stress Triaxiality. <i>Journal of Materials Science and Technology</i> , 2016, 32, 1282-1288.   | 5.6 | 28        |
| 43 | The mode I crack-inclusion interaction in orthotropic medium. <i>Engineering Fracture Mechanics</i> , 2015, 136, 185-194.  | 2.0 | 7         |
| 44 | Study on the plane stress mode II crack-inclusion interaction with coupled mechanical and thermal strains. <i>Archive of Applied Mechanics</i> , 2015, 85, 725-733.  | 1.2 | 5         |
| 45 | A study of a cyclic viscoplasticity model based on hyperbolic sine form for the inelastic strain rate. <i>International Journal of Mechanical Sciences</i> , 2015, 101-102, 155-160.   | 3.6 | 14        |
| 46 | Study on the crack-inclusion interaction with coupled mechanical and thermal strains. <i>Theoretical and Applied Fracture Mechanics</i> , 2015, 75, 39-43.   | 2.1 | 8         |
| 47 | A study of fatigue damage development in extruded Mg-Gd-Y magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 589, 209-216.                                   | 2.6 | 40        |
| 48 | Fatigue life prediction of sus 630 (H900) steel under high cycle loading. <i>Acta Mechanica Solida Sinica</i> , 2013, 26, 584-591.   | 1.0 | 6         |
| 49 | Application of Drucker-Prager plasticity to predict fracture in rectangular cup drawing of AZ31 alloy sheet. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 532, 316-324. | 2.6 | 8         |
| 50 | Singular fields near a sharp V-notch for power law creep material. <i>International Journal of Fracture</i> , 2011, 168, 159-166.  | 1.1 | 16        |
| 51 | An Approach for Fatigue Life Prediction. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2007, 129, 182-189.  | 0.8 | 8         |
| 52 | Modeling of Fatigue Crack Propagation. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2004, 126, 77-86.  | 0.8 | 73        |
| 53 | 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         |