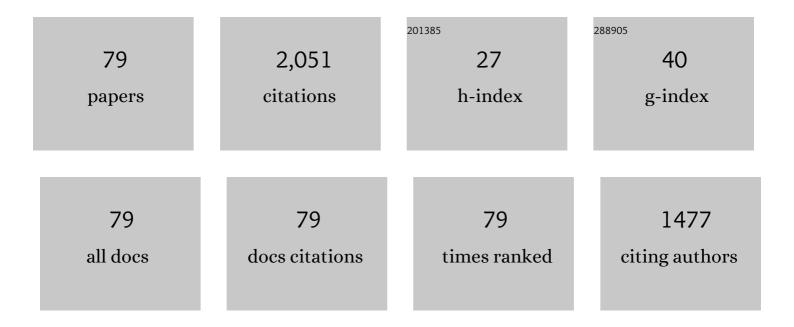
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Atomistic interpretation of extra temperature and strain-rate sensitivity of heterogeneous dislocation nucleation in a multi-principal-element alloy. International Journal of Plasticity, 2022, 149, 103155. | 4.1 | 18 |
| 2 | Dynamic responses in shocked Cu-Zr nanoglasses with gradient microstructure. International Journal of Plasticity, 2022, 149, 103154. | 4.1 | 15 |
| 3 | Disentangling diffusion heterogeneity in high-entropy alloys. Acta Materialia, 2022, 224, 117527. | 3.8 | 25 |
| 4 | Correlation between vibrational anomalies and emergent anharmonicity of the local potential energy landscape in metallic glasses. Physical Review B, 2022, 105, . | 1.1 | 12 |
| 5 | Ergodic Structural Diversity Predicts Dynamics in Amorphous Materials. Frontiers in Materials, 2022, 9, . | 1.2 | 0 |
| 6 | Sluggish dynamics of homogeneous flow in high-entropy metallic glasses. Scripta Materialia, 2022, 214, 114673. | 2.6 | 11 |
| 7 | A hierarchically correlated flow defect model for metallic glass: Universal understanding of stress relaxation and creep. International Journal of Plasticity, 2022, 154, 103288. | 4.1 | 29 |
| 8 | Elastic criterion for shear-banding instability in amorphous solids. Physical Review E, 2022, 105, 045003. | 0.8 | 8 |
| 9 | Hidden spatiotemporal sequence in transition to shear band in amorphous solids. Physical Review Research, 2022, 4, . | 1.3 | 10 |
| 10 | Sluggish hydrogen diffusion and hydrogen decreasing stacking fault energy in a high-entropy alloy. Materials Today Communications, 2021, 26, 101902. | 0.9 | 11 |
| 11 | Inelastic deformation of metallic glasses under dynamic cyclic loading. Scripta Materialia, 2021, 194, 113675. | 2.6 | 6 |
| 12 | Grain boundary-mediated plasticity accommodating the cracking process in nanograined gold: In situ observations and simulations. Scripta Materialia, 2021, 194, 113693. | 2.6 | 6 |
| 13 | Synergistic strengthening mechanisms of rhenium in nickel-based single crystal superalloys. Intermetallics, 2021, 132, 107133. | 1.8 | 15 |
| 14 | Dynamic mechanical relaxation and thermal creep of high-entropy La30Ce30Ni10Al20Co10 bulk metallic glass. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1. | 2.0 | 37 |
| 15 | Machine-learning integrated glassy defect from an intricate configurational-thermodynamic-dynamic space. Physical Review B, 2021, 104, . | 1.1 | 15 |
| 16 | Stress relaxation in high-entropy Pd20Pt20Cu20Ni20P20 metallic glass: Experiments, modeling and theory. Mechanics of Materials, 2021, 160, 103959. | 1.7 | 5 |
| 17 | Machine learning atomic-scale stiffness in metallic glass. Extreme Mechanics Letters, 2021, 48, 101446. | 2.0 | 19 |
| 18 | Microstructural effects on the dynamical relaxation of glasses and glass composites: A molecular dynamics study. Acta Materialia, 2021, 220, 117293. | 3.8 | 9 |

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|----|---|-----|-----------|
| 19 | Dislocation nucleation and evolution at the ferrite-cementite interface under cyclic loadings. Acta Materialia, 2020, 186, 267-277. | 3.8 | 30 |
| 20 | "Self-sharpening―tungsten high-entropy alloy. Acta Materialia, 2020, 186, 257-266. | 3.8 | 91 |
| 21 | Ultrasonic plasticity of metallic glass near room temperature. Applied Materials Today, 2020, 21, 100866. | 2.3 | 15 |
| 22 | Complexity of plastic instability in amorphous solids: Insights from spatiotemporal evolution of vibrational modes. European Physical Journal E, 2020, 43, 56. | 0.7 | 10 |
| 23 | Unraveling strongly entropic effect on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>β</mml:mi> -relaxation in metallic glass: Insights from enhanced atomistic samplings over experimentally relevant timescales. Physical Review B, 2020, 102, .</mml:math | 1.1 | 5 |
| 24 | Unified perspective on structural heterogeneity of a LaCe-based metallic glass from versatile dynamic stimuli. Intermetallics, 2020, 125, 106922. | 1.8 | 8 |
| 25 | Statistical complexity of potential energy landscape as a dynamic signature of the glass transition. Physical Review B, 2020, 101, . | 1.1 | 12 |
| 26 | Atomistic structural mechanism for the glass transition: Entropic contribution. Physical Review B, 2020, 101, . | 1.1 | 28 |
| 27 | Novel atomic-scale mechanism of incipient plasticity in a chemically complex CrCoNi medium-entropy alloy associated with inhomogeneity in local chemical environment. Acta Materialia, 2020, 194, 283-294. | 3.8 | 101 |
| 28 | Ratchetting in Cold-Drawn Pearlitic Steel Wires. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4561-4568. | 1.1 | 8 |
| 29 | Hierarchical-microstructure based modeling for plastic deformation of partial recrystallized copper. Mechanics of Materials, 2019, 139, 103207. | 1.7 | 3 |
| 30 | Revisiting the structure–property relationship of metallic glasses: Common spatial correlation revealed as a hidden rule. Physical Review B, 2019, 99, . | 1.1 | 50 |
| 31 | One-step annealing optimizes strength-ductility tradeoff in pearlitic steel wires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 757, 1-13. | 2.6 | 25 |
| 32 | Atomistic insights on the influence of pre-oxide shell layer and size on the compressive mechanical properties of nickel nanowires. Journal of Applied Physics, 2019, 125, . | 1.1 | 4 |
| 33 | Assessing the utility of structure in amorphous materials. Journal of Chemical Physics, 2019, 150, 114502. | 1.2 | 34 |
| 34 | Incorporating a soft ordered phase into an amorphous configuration enhances its uniform plastic deformation under shear. AIP Advances, 2019, 9, 015329. | 0.6 | 1 |
| 35 | Fast surface dynamics enabled cold joining of metallic glasses. Science Advances, 2019, 5, eaax7256. | 4.7 | 87 |
| 36 | Susceptibility of shear banding to chemical short-range order in metallic glasses. Scripta Materialia, 2019, 162, 141-145. | 2.6 | 22 |

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| 37 | Structural Parameter of Orientational Order to Predict the Boson Vibrational Anomaly in Glasses. Physical Review Letters, 2019, 122, 015501. | 2.9 | 45 |
| 38 | Enhancing strength without compromising ductility in copper by combining extrusion machining and heat treatment. Journal of Materials Processing Technology, 2019, 267, 52-60. | 3.1 | 19 |
| 39 | Investigation of high spin states in 133Cs. European Physical Journal A, 2018, 54, 1. | 1.0 | 1 |
| 40 | A free energy landscape perspective on the nature of collective diffusion in amorphous solids. Acta Materialia, 2018, 157, 165-173. | 3.8 | 33 |
| 41 | Oxyhydroxide of metallic nanowires in a molecular H2O and H2O2 environment and their effects on mechanical properties. Physical Chemistry Chemical Physics, 2018, 20, 17289-17303. | 1.3 | 17 |
| 42 | Atomic structure of the Fe/Fe ₃ C interface with the Isaichev orientation in pearlite. Philosophical Magazine, 2017, 97, 2375-2386. | 0.7 | 22 |
| 43 | Atomic theory of viscoelastic response and memory effects in metallic glasses. Physical Review B, 2017, 96, . | 1.1 | 27 |
| 44 | Strain gradient drives shear banding in metallic glasses. Physical Review B, 2017, 96, . | 1.1 | 34 |
| 45 | Universal structural softening in metallic glasses indicated by boson heat capacity peak. Applied Physics Letters, 2017, 111, . | 1.5 | 15 |
| 46 | Correlation between strain rate sensitivity and α relaxation of metallic glasses. AIP Advances, 2016, 6, 075022. | 0.6 | 1 |
| 47 | Effects of oxidation on tensile deformation of iron nanowires: Insights from reactive molecular dynamics simulations. Journal of Applied Physics, 2016, 120, . | 1.1 | 27 |
| 48 | Prediction of pressure-promoted thermal rejuvenation in metallic glasses. Npj Computational Materials, 2016, 2, . | 3.5 | 67 |
| 49 | Time-, stress-, and temperature-dependent deformation in nanostructured copper: Creep tests and simulations. Journal of the Mechanics and Physics of Solids, 2016, 94, 191-206. | 2.3 | 54 |
| 50 | Time, stress, and temperature-dependent deformation in nanostructured copper: Stress relaxation tests and simulations. Acta Materialia, 2016, 108, 252-263. | 3.8 | 66 |
| 51 | Mechanism transition and strong temperature dependence of dislocation nucleation from grain boundaries: An accelerated molecular dynamics study. Physical Review B, 2016, 94, . | 1.1 | 32 |
| 52 | Transition from stress-driven to thermally activated stress relaxation in metallic glasses. Physical Review B, 2016, 94, . | 1.1 | 65 |
| 53 | Understanding the serrated flow and Johari-Goldstein relaxation of metallic glasses. Journal of Non-Crystalline Solids, 2016, 444, 23-30. | 1.5 | 17 |
| 54 | Intrinsic structural defects on medium range in metallic glasses. Intermetallics, 2016, 75, 36-41. | 1.8 | 17 |

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| 55 | Direct atomic-scale evidence for shear–dilatation correlation in metallic glasses. Scripta Materialia, 2016, 112, 37-41. | 2.6 | 28 |
| 56 | Size-dependent plastic deformation and failure mechanisms of nanotwinned Ni3Al: Insights from an atomistic cracking model. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 449-460. | 2.6 | 19 |
| 57 | Universal enthalpy-entropy compensation rule for the deformation of metallic glasses. Physical Review B, 2015, 92, . | 1.1 | 19 |
| 58 | Publisher's Note: Universal enthalpy-entropy compensation rule for the deformation of metallic glasses [Phys. Rev. B 92 , 174118 (2015)]. Physical Review B, 2015, 92, . | 1.1 | 2 |
| 59 | Thermal expansion accompanying the glass-liquid transition and crystallization. AIP Advances, 2015, 5, . | 0.6 | 13 |
| 60 | Characteristics of stress relaxation kinetics of La 60 Ni 15 Al 25 bulk metallic glass. Acta Materialia, 2015, 98, 43-50. | 3.8 | 89 |
| 61 | Bridging shear transformation zone to the atomic structure of amorphous solids. Journal of Non-Crystalline Solids, 2015, 410, 100-105. | 1.5 | 5 |
| 62 | Studying the elastic properties of nanocrystalline copper using a model of randomly packed uniform grains. Computational Materials Science, 2013, 79, 56-62. | 1.4 | 34 |
| 63 | Atomistic understanding of diffusion kinetics in nanocrystals from molecular dynamics simulations. Physical Review B, 2013, 88, . | 1.1 | 17 |
| 64 | Entropic effect on creep in nanocrystalline metals. Acta Materialia, 2013, 61, 3866-3871. | 3.8 | 28 |
| 65 | Size-dependent transition of deformation mechanism, and nonlinear elasticity in Ni3Al nanowires. Applied Physics Letters, 2013, 102, . | 1.5 | 19 |
| 66 | Atomistic Design of High Strength Crystalline-Amorphous Nanocomposites. Materials Transactions, 2013, 54, 1592-1596. | 0.4 | 9 |
| 67 | First Report of Lily Blight and Wilt Caused by <i>Fusarium tricinctum</i> in China. Plant Disease, 2013, 97, 993-993. | 0.7 | 19 |
| 68 | Grain Size Dependence of Creep in Nanocrystalline Copper by Molecular Dynamics. Materials Transactions, 2012, 53, 156-160. | 0.4 | 35 |
| 69 | Effect of water stress on leaf photosynthesis, chlorophyll content, and growth of oriental lily. Russian Journal of Plant Physiology, 2011, 58, 844-850. | 0.5 | 56 |
| 70 | Transition of creep mechanism in nanocrystalline metals. Physical Review B, 2011, 84, . | 1.1 | 51 |
| 71 | CO adsorption on small Au _{<i>n</i>} (<i>n</i> = 1 — 7) clusters supported on a reduced rutile TiO ₂ (110) surface: a first-principles study. Chinese Physics B, 2011, 20, 036801. | 0.7 | 6 |
| 72 | A comparison of the ideal strength between L12Co3(Al,W) and Ni3Al under tension and shear from first-principles calculations. Applied Physics Letters, 2009, 94, . | 1.5 | 72 |

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|----|---|-----|-----------|
| 73 | Mechanical properties and electronic structure of superhard diamondlike BC5: A first-principles study. Journal of Applied Physics, 2009, 106, . | 1.1 | 14 |
| 74 | Influence of alloying elements on the elastic properties of ternary and quaternary nickel-base superalloys. Philosophical Magazine, 2009, 89, 2935-2947. | 0.7 | 22 |
| 75 | Influence of the alloying element Re on the ideal tensile and shear strength of γ′-Ni3Al. Scripta Materialia, 2009, 61, 197-200. | 2.6 | 51 |
| 76 | Mechanical and electronic properties of 5d transition metal diborides MB2 (M=Re, W, Os, Ru). Journal of Applied Physics, 2009, 105, . | 1.1 | 32 |
| 77 | Effect of Alloying Elements on the Elastic Properties of γ-Ni and γ'-Ni3Al from First-principles Calculations. Materials Research Society Symposia Proceedings, 2009, 1224, 1. | 0.1 | 10 |
| 78 | The alloying mechanisms of Re, Ru in the quaternary Ni-based superalloys interface: A first principles calculation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 490, 242-249. | 2.6 | 42 |
| 79 | A first-principles survey of the partitioning behaviors of alloying elements on γ/γ′ interface. Journal of Applied Physics, 2008, 104, 013109. | 1.1 | 15 |