# Meizhen Xiang

List of Publications by Year
in descending order

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Version: 2024-02-01

| 28 | 655 | 567144 15 | 580701 25 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 28 | 28 | 28 | 322 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A strain gradient brittle fracture model based on two-scale asymptotic analysis. Journal of the Mechanics and Physics of Solids, 2022, 159, 104752. | 2.3 | 9 |
| 2 | Coupling of dynamic ductile damage and melting in shock-induced micro-spalling: Modeling and applications. International Journal of Plasticity, 2021, 136, 102849. | 4.1 | 15 |
| 3 | Anisotropic shock responses of nanoporous Al by molecular dynamics simulations. PLoS ONE, 2021, 16, e0247172. | 1.1 | 8 |
| 4 | Spalling fracture of Ni/Al nanolaminates influenced by chemical reaction. Journal of Applied Physics, 2021, 130, . | 1.1 | 3 |
| 5 | Molecular dynamics simulations on shock response and spalling behaviors of semi-coherent {111} Cu-Al multilayers. International Journal of Mechanical Sciences, 2020, 172, 105414. | 3.6 | 35 |
| 6 | Coupling of homogeneous and heterogeneous melting kinetics in overheated polycrystalline materials. Computational Materials Science, 2020, 173, 109421. | 1.4 | 4 |
| 7 | Shock-induced plasticity and damage in single-crystalline Cu at elevated temperatures by molecular dynamics simulations. International Journal of Heat and Mass Transfer, 2020, 158, 120013. | 2.5 | 31 |
| 8 | Heterogeneous melting kinetics in polycrystalline aluminum. PLoS ONE, 2020, 15, e0230028. | 1.1 | 3 |
| 9 | Shock induced plasticity and phase transition in single crystal lead by molecular dynamics simulations. Journal of Applied Physics, 2019, 126, . | 1.1 | 6 |
| 10 | A Study of the Shock Sensitivity of Energetic Single Crystals by Large-Scale Ab Initio Molecular Dynamics Simulations. Nanomaterials, 2019, 9, 1251. | 1.9 | 15 |
| 11 | Theoretical investigations on melting/crystallization kinetics in overheated/overcooled aluminum at high pressures. Journal of Applied Physics, 2019, 126, . | 1.1 | 6 |
| 12 | Improved embedded-atom model potentials of Pb at high pressure: application to investigations of plasticity and phase transition under extreme conditions. Modelling and Simulation in Materials Science and Engineering, 2019, 27, 015001. | 0.8 | 15 |
| 13 | Shock-induced plasticity in semi-coherent {111} Cu-Ni multilayers. International Journal of Plasticity, 2018, 103, 23-38. | 4.1 | 42 |
| 14 | Shock response of nanoporous magnesium by molecular dynamics simulations. International Journal of Mechanical Sciences, 2018, 141, 143-156. | 3.6 | 48 |
| 15 | Molecular dynamics studies on energy dissipation and void collapse in graded nanoporous nickel under shock compression. Mechanics of Materials, 2018, 126, 13-25. | 1.7 | 31 |
| 16 | Macroscopic damping model for structural dynamics with random polycrystalline configurations. Acta Mechanica Sinica/Lixue Xuebao, 2018, 34, 493-506. | 1.5 | 2 |
| 17 | Shock responses of nanoporous aluminum by molecular dynamics simulations. International Journal of Plasticity, 2017, 97, 24-45. | 4.1 | 78 |
| 18 | Phase transition of iron-based single crystals under ramp compressions with extreme strain rates. International Journal of Plasticity, 2017, 96, 56-80. | 4.1 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Spalling behaviors of Pb induced by ramp-wave-loading: Effects of the loading rise time studied by molecular dynamics simulations. Computational Materials Science, 2016, 117, 370-379. | 1.4 | 19 |
| 20 | Numerical simulation of ductile fracture based on mean field homogenization method: Modeling and implementation. Engineering Fracture Mechanics, 2016, 152, 147-161. | 2.0 | 8 |
| 21 | Molecular dynamics studies of the roles of microstructure and thermal effects in spallation of aluminum. Mechanics of Materials, 2015, 84, 12-27. | 1.7 | 59 |
| 22 | Molecular dynamics simulation of shock induced ejection on fused silica surface. Journal of Applied Physics, 2014, 115, 193508. | 1.1 | 22 |
| 23 | Molecular dynamics study of the micro-spallation of single crystal tin. Computational Materials Science, 2014, 95, 89-98. | 1.4 | 27 |
| 24 | Molecular dynamics simulations of micro-spallation of single crystal lead. Modelling and Simulation in Materials Science and Engineering, 2013, 21, 055005. | 0.8 | 56 |
| 25 | Spalling and melting in nanocrystalline Pb under shock loading: Molecular dynamics studies. Journal of Applied Physics, 2013, 113, . | 1.1 | 51 |
| 26 | Molecular dynamics studies of thermal dissipation during shock induced spalling. Journal of Applied Physics, 2013, 114, 123509. | 1.1 | 18 |
| 27 | Atom-continuum coupled model for thermo-mechanical behavior of materials in micro-nano scales. Science China: Physics, Mechanics and Astronomy, 2012, 55, 1125-1137. | 2.0 | 17 |
| 28 | Dynamic Fracture Analysis of Natural Gas Pipelines Based on a Cohesive Zone Model. International Journal of Structural Stability and Dynamics, 0, , . | 1.5 | 0 |