# Peter Michael Derlet

List of Publications by Year
in descending order



| 16 | 412 | 759233 12 | 940533 16 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 17 | 17 | 17 | 566 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Atomistic Simulations of Dislocations in Confined Volumes. MRS Bulletin, 2009, 34, 184-189. | 3.5 | 50 |
| 2 | Landau-Heisenberg Hamiltonian model for FeRh. Physical Review B, 2012, 85, . | 3.2 | 46 |
| 3 | Microscopic structure of a heavily irradiated material. Physical Review Materials, 2020, 4, . | 2.4 | 45 |
| 4 | Continuous magnetic phase transition in artificial square ice. Physical Review B, 2019, 99, . | 3.2 | 41 |
| 5 | Observation of Transient and Asymptotic Driven Structural States of Tungsten Exposed to Radiation. Physical Review Letters, 2020, 125, 225503. | 7.8 | 38 |
| 6 | Local structural excitations in model glasses. Physical Review B, 2014, 89, . | 3.2 | 34 |
| 7 | Magnetic charge and moment dynamics in artificial kagome spin ice. Physical Review B, 2017, 96, . | 3.2 | 31 |
| 8 | Interatomic potentials for materials with interacting electrons. Journal of Computer-Aided Materials Design, 2007, 14, 129-140. | 0.7 | 28 |
| 9 | Thermal processing and enthalpy storage of a binary amorphous solid: A molecular dynamics study. Journal of Materials Research, 2017, 32, 2668-2679. | 2.6 | 26 |
| 10 | Local structural excitations in model glass systems under applied load. Physical Review B, 2016, 93, . | 3.2 | 23 |
| 11 | Micro-plasticity in a fragile model binary glass. Acta Materialia, 2021, 209, 116771. | 7.9 | 16 |
| 12 | Thermal-activation model for freezing and the elastic robustness of bulk metallic glasses. Physical Review B, 2011, 84, . | 3.2 | 12 |
| 13 | Continuous ground-state degeneracy of classical dipoles on regular lattices. Physical Review B, 2019, 100, . | 3.2 | 9 |
| 14 | Correlated disorder in a model binary glass through a local SU(2) bonding topology. Physical Review Materials, 2020, 4, . | 2.4 | 8 |
| 15 | Viscosity and transport in a model fragile metallic glass. Physical Review Materials, 2021, 5, . | 2.4 | 4 |
| 16 | Geometrical control of disorder-induced magnetic domains in planar synthetic antiferromagnets. Physical Review Materials, 2022, 6, . | 2.4 | 1 |