# Xiang Chen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2978554/publications.pdf

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| 16 | 305 | 840776 11 | 1058476 14 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 16 | 16 | 16 | 222 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Coarse-grained elastodynamics of fast moving dislocations. Acta Materialia, 2016, 104, 143-155. | 7.9 | 47 |
| 2 | Effects of phonons on mobility of dislocations and dislocation arrays. Scripta Materialia, 2017, 137, 22-26. | 5.2 | 44 |
| 3 | Ballistic-diffusive phonon heat transport across grain boundaries. Acta Materialia, 2017, 136, 355-365. | 7.9 | 35 |
| 4 | Passing waves from atomistic to continuum. Journal of Computational Physics, 2018, 354, 393-402. | 3.8 | 33 |
| 5 | Prediction of phonon properties of 1D polyatomic systems using concurrent atomisticâ€“continuum simulation. Archive of Applied Mechanics, 2014, 84, 1665-1675. | 2.2 | 31 |
| 6 | Phonon thermal transport through tilt grain boundaries in strontium titanate. Journal of Applied Physics, 2014, 116, . | 2.5 | 18 |
| 7 | A coherent phonon pulse model for transient phonon thermal transport. Computer Physics Communications, 2015, 195, 112-116. | 7.5 | 18 |
| 8 | A molecular dynamics study of tilt grain boundary resistance to slip and heat transfer in nanocrystalline silicon. Journal of Applied Physics, 2014, 116, . | 2.5 | 17 |
| 9 | Dislocation migration across coherent phase interfaces in SiGe superlattices. Computational Materials Science, 2016, 111, 1-6. | 3.0 | 17 |
| 10 | Modeling dislocations and heat conduction in crystalline materials: atomistic/continuum coupling approaches. International Materials Reviews, 2019, 64, 407-438. | 19.3 | 14 |
| 11 | Recent progress in the concurrent atomistic-continuum method and its application in phonon transport. MRS Communications, 2017, 7, 785-797. | 1.8 | 12 |
| 12 | Phonon spectrum and phonon focusing in coarse-grained atomistic simulations. Computational Materials Science, 2019, 162, 21-32. | 3.0 | 9 |
| 13 | Minimum thermal conductivity in periodically twinned SrTiO3. Computational Materials Science, 2016, 112, 107-112. | 3.0 | 8 |
| 14 | Phonon Transport Across Coherent and Incoherent Interfaces. Jom, 2019, 71, 3885-3891. | 1.9 | 2 |
| 15 | Efficient perturbation-tracking method for directly probing the spectral phonon properties from molecular dynamics simulations. Physical Review E, 2020, 102, 053311. | 2.1 | 0 |
| 16 | Effect of phase interface atomic coherency on dynamics of dislocations. Journal of Materials Research, 2021, 36, 2792-2801. | 2.6 | 0 |