

Te-Huan Liu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8455659/te-huan-liu-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30
papers

1,271
citations

20
h-index

31
g-index

31
ext. papers

1,534
ext. citations

7.8
avg, IF

4.65
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 30 | Unusual high thermal conductivity in boron arsenide bulk crystals. <i>Science</i> , 2018 , 361, 582-585 | 33.3 | 185 |
| 29 | Structure, energy, and structural transformations of graphene grain boundaries from atomistic simulations. <i>Carbon</i> , 2011 , 49, 2306-2317 | 10.4 | 125 |
| 28 | First-principles mode-by-mode analysis for electron-phonon scattering channels and mean free path spectra in GaAs. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 94 |
| 27 | Anisotropic thermal transport in phosphorene: effects of crystal orientation. <i>Nanoscale</i> , 2015 , 7, 10648-547 | 5.7 | 90 |
| 26 | Nano-microstructural control of phonon engineering for thermoelectric energy harvesting. <i>MRS Bulletin</i> , 2018 , 43, 181-186 | 3.2 | 80 |
| 25 | Large thermoelectric power factor from crystal symmetry-protected non-bonding orbital in half-Heuslers. <i>Nature Communications</i> , 2018 , 9, 1721 | 17.4 | 77 |
| 24 | Effects of dislocation densities and distributions on graphene grain boundary failure strengths from atomistic simulations. <i>Carbon</i> , 2012 , 50, 3465-3472 | 10.4 | 76 |
| 23 | Decoupling of CVD graphene by controlled oxidation of recrystallized Cu. <i>RSC Advances</i> , 2012 , 2, 3008 | 3.7 | 69 |
| 22 | Phonon Hydrodynamic Heat Conduction and Knudsen Minimum in Graphite. <i>Nano Letters</i> , 2018 , 18, 638-643 | 6.9 | 54 |
| 21 | Electron mean-free-path filtering in Dirac material for improved thermoelectric performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 879-884 | 11.5 | 46 |
| 20 | Ab initio study of electron mean free paths and thermoelectric properties of lead telluride. <i>Materials Today Physics</i> , 2017 , 2, 69-77 | 8 | 42 |
| 19 | Multiscale Structural Modulation of Anisotropic Graphene Framework for Polymer Composites Achieving Highly Efficient Thermal Energy Management. <i>Advanced Science</i> , 2021 , 8, 2003734 | 13.6 | 38 |
| 18 | Anisotropic thermal conductivity of MoS2 nanoribbons: Chirality and edge effects. <i>Applied Physics Letters</i> , 2014 , 104, 201909 | 3.4 | 37 |
| 17 | Seeded growth of boron arsenide single crystals with high thermal conductivity. <i>Applied Physics Letters</i> , 2018 , 112, 031903 | 3.4 | 31 |
| 16 | Simultaneously high electron and hole mobilities in cubic boron-V compounds: BP, BAs, and BSb. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 31 |
| 15 | Thermal conductivity of boron nitride nanoribbons: Anisotropic effects and boundary scattering. <i>International Journal of Thermal Sciences</i> , 2015 , 94, 72-78 | 4.1 | 28 |
| 14 | Anomalous thermal transport along the grain boundaries of bicrystalline graphene nanoribbons from atomistic simulations. <i>Carbon</i> , 2014 , 73, 432-442 | 10.4 | 25 |

| | | | |
|----|---|------|----|
| 13 | Dirac-electron-mediated magnetic proximity effect in topological insulator/magnetic insulator heterostructures. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 25 |
| 12 | Low-temperature grown graphene films by using molecular beam epitaxy. <i>Applied Physics Letters</i> , 2012 , 101, 221911 | 3.4 | 25 |
| 11 | Effect of electron-phonon interaction on lattice thermal conductivity of SiGe alloys. <i>Applied Physics Letters</i> , 2019 , 115, 023903 | 3.4 | 21 |
| 10 | Graphene defect polarity dynamics. <i>Carbon</i> , 2012 , 50, 2870-2876 | 10.4 | 20 |
| 9 | Thermal response of grain boundaries in graphene sheets under shear strain from atomistic simulations. <i>Computational Materials Science</i> , 2013 , 70, 163-170 | 3.2 | 17 |
| 8 | Umklapp scattering is not necessarily resistive. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 9 |
| 7 | Tailoring Superconductivity with Quantum Dislocations. <i>Nano Letters</i> , 2017 , 17, 4604-4610 | 11.5 | 7 |
| 6 | Mechanical mutability of polycrystalline graphene from atomistic simulations. <i>Computational Materials Science</i> , 2014 , 91, 56-61 | 3.2 | 4 |
| 5 | An analytical model for calculating thermal properties of two-dimensional nanomaterials. <i>Applied Physics Letters</i> , 2013 , 103, 171909 | 3.4 | 2 |
| 4 | Effects of electron-phonon intervalley scattering and band non-parabolicity on electron transport properties of high-temperature phase SnSe: An ab initio study. <i>Materials Today Physics</i> , 2022 , 22, 100592 ⁸ | 8 | 2 |
| 3 | Confinement effect on thermopower of electrolytes. <i>Materials Today Physics</i> , 2022 , 23, 100627 | 8 | 2 |
| 2 | First-Principles Study of All Thermoelectric Properties of Si - Ge Alloys Showing Large Phonon Drag from 150 to 1100K. <i>Physical Review Applied</i> , 2021 , 16, | 4.3 | 2 |
| 1 | Significant suppression of phonon transport in polar semiconductors owing to electron-phonon-induced dipole coupling: An effect of breaking centrosymmetry. <i>Materials Today Physics</i> , 2022 , 22, 100598 | 8 | 1 |