# Kunpeng Yuan

List of Publications by Year
in descending order



| 23 | 469 | 687363 13 | 713466 21 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 23 | 23 | 23 | 495 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Ultra-low thermal conductivity and high thermoelectric performance of two-dimensional triphosphides (InP<sub>3</sub>, GaP<sub>3</sub>, SbP<sub>3</sub> and SnP<sub>3</sub>): a comprehensive first-principles study. Nanoscale, 2020, 12, 3330-3342. | 5.6 | 68 |
| 2 | Effects of tensile strain and finite size on thermal conductivity in monolayer WSe<sub>2</sub>. Physical Chemistry Chemical Physics, 2019, 21, 468-477. | 2.8 | 60 |
| 3 | Anomalous pressure effect on the thermal conductivity of ZnO, GaN, and AlN from first-principles calculations. Physical Review B, 2018, 98, . | 3.2 | 42 |
| 4 | A first-principles study of the thermoelectric properties of rhombohedral GeSe. Physical Chemistry Chemical Physics, 2020, 22, 1911-1922. | 2.8 | 32 |
| 5 | Lattice Thermal Conductivity Prediction Using Symbolic Regression and Machine Learning. Journal of Physical Chemistry A, 2021, 125, 435-450. | 2.5 | 32 |
| 6 | Disparate strain response of the thermal transport properties of bilayer penta-graphene as compared to that of monolayer penta-graphene. Physical Chemistry Chemical Physics, 2019, 21, 15647-15655. | 2.8 | 28 |
| 7 | Self-Assembled Monolayers for the Polymer/Semiconductor Interface with Improved Interfacial Thermal Management. ACS Applied Materials & Interfaces, 2019, 11, 42708-42714. | 8.0 | 27 |
| 8 | Predicting Elastic Properties of Materials from Electronic Charge Density Using 3D Deep Convolutional Neural Networks. Journal of Physical Chemistry C, 2020, 124, 17262-17273. | 3.1 | 23 |
| 9 | Tailoring phononic, electronic, and thermoelectric properties of orthorhombic GeSe through hydrostatic pressure. Scientific Reports, 2019, 9, 9490. | 3.3 | 21 |
| 10 | Efficient thermal conductivity modulation by manipulating interlayer interactions: A comparative study of bilayer graphene and graphite. Journal of Applied Physics, 2019, 126, . | 2.5 | 21 |
| 11 | Pressure tuning of the thermal conductivity of gallium arsenide from first-principles calculations. Physical Chemistry Chemical Physics, 2018, 20, 30331-30339. | 2.8 | 16 |
| 12 | Electric field tuned anisotropic to isotropic thermal transport transition in monolayer borophene without altering its atomic structure. Nanoscale, 2020, 12, 19178-19190. | 5.6 | 15 |
| 13 | First-principles calculations of interfacial thermal transport properties between SiC/Si substrates and compounds of boron with selected group V elements. Physical Chemistry Chemical Physics, 2019, 21, 6011-6020. | 2.8 | 14 |
| 14 | First-principles analysis of phonon thermal transport properties of two-dimensional WS<sub>2</sub>/WSe<sub>2</sub> heterostructures*. Chinese Physics B, 2021, 30, 034401. | 1.4 | 13 |
| 15 | Why thermal conductivity of CaO is lower than that of CaS: a study from the perspective of phonon splitting of optical mode. Nanotechnology, 2021, 32, 025709. | 2.6 | 13 |
| 16 | Ultralow lattice thermal conductivity and dramatically enhanced thermoelectric properties of monolayer InSe induced by an external electric field. Physical Chemistry Chemical Physics, 2021, 23, 13633-13646. | 2.8 | 10 |
| 17 | Zintl Phase Compounds Mg3Sb2â^'xBix (x = 0, 1, and 2) Monolayers: Electronic, Phonon and Thermoelectric Properties From ab Initio Calculations. Frontiers in Mechanical Engineering, 2022, 8, . | 1.8 | 7 |
| 18 | The Abnormally Excellent Figure of Merit of 14,14,18-Graphyne at Room Temperature: A Study on the Thermoelectric Characteristic of Graphyne. ACS Applied Energy Materials, 2022, 5, 6363-6372. | 5.1 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Thermal conductivity of SrTiO3 under high-pressure. Applied Physics Letters, 2022, 120, . | 3.3 | 6 |
| 20 | Alkaline treatment of used carbon-brush anodes for restoring power generation of microbial fuel cells. RSC Advances, 2018, 8, 36754-36760. | 3.6 | 5 |
| 21 | Low thermal conductivity of peanut-shaped carbon nanotube and its insensitive response to uniaxial strain. Nanotechnology, 2020, 31, 115701. | 2.6 | 4 |
| 22 | Giant Manipulation of Phonon Hydrodynamics in Ferroelectric Bilayer Boron Nitride at Room Temperature and Beyond. ACS Applied Energy Materials, 2022, 5, 8781-8790. | 5.1 | 4 |
| 23 | Potential thermoelectric materials: first-principles prediction of low lattice thermal conductivity of two-dimensional (2D) orthogonal ScX<sub>2</sub> (X = C and N) compounds. Physical Chemistry Chemical Physics, 2021, 23, 23718-23729. | 2.8 | 2 |