

Jungdae Kim

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,434
citations

567281

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477307

29
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31
all docs

31
docs citations

31
times ranked

2442
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Achieving ZT=2.2 with Bi-doped n-type SnSe single crystals. Nature Communications, 2016, 7, 13713. | 12.8 | 346 |
| 2 | Superconductivity at the Two-Dimensional Limit. Science, 2009, 324, 1314-1317. | 12.6 | 294 |
| 3 | Emergence of a Metal-Insulator Transition and High-Temperature Charge-Density Waves in VSe_2 at the Monolayer Limit. Nano Letters, 2018, 18, 5432-5438. | 9.1 | 170 |
| 4 | Origin of p-type characteristics in a SnSe single crystal. Applied Physics Letters, 2017, 110, . | 3.3 | 81 |
| 5 | Visualization of geometric influences on proximity effects in heterogeneous superconductor thin films. Nature Physics, 2012, 8, 464-469. | 16.7 | 73 |
| 6 | Quantum size effects on the work function of metallic thin film nanostructures. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12761-12765. | 7.1 | 61 |
| 7 | Flat-surface-assisted and self-regulated oxidation resistance of Cu(111). Nature, 2022, 603, 434-438. | 27.8 | 59 |
| 8 | Fabrication of high-quality single-crystal Cu thin films using radio-frequency sputtering. Scientific Reports, 2014, 4, 6230. | 3.3 | 43 |
| 9 | High-Quality $SnSe_2$ Single Crystals: Electronic and Thermoelectric Properties. ACS Applied Energy Materials, 2020, 3, 10787-10792. | 5.1 | 34 |
| 10 | A microscopic study investigating the structure of SnSe surfaces. Surface Science, 2016, 651, 5-9. | 1.9 | 33 |
| 11 | Direct Observation of Fe-Ge Ordering in $Fe_5X_2GeTe_2$ Crystals and Resultant Helimagnetism. Advanced Functional Materials, 2021, 31, 2009758. | 14.9 | 33 |
| 12 | A Review of SnSe: Growth and Thermoelectric Properties. Journal of the Korean Physical Society, 2018, 72, 841-857. | 0.7 | 32 |
| 13 | Compact low temperature scanning tunneling microscope with <i>in-situ</i> sample preparation capability. Review of Scientific Instruments, 2015, 86, 093707. | 1.3 | 23 |
| 14 | Interlayer Coupling and Ultrafast Hot Electron Transfer Dynamics in Metallic VSe_2 /Graphene van der Waals Heterostructures. ACS Nano, 2021, 15, 7756-7764. | 14.6 | 22 |
| 15 | Atomistic study of the alloying behavior of crystalline $SnSe_{1-x}S_x$. Physical Chemistry Chemical Physics, 2017, 19, 21648-21654. | 2.8 | 17 |
| 16 | Growing Ultrathin Cu_2O Films on Highly Crystalline Cu(111): A Closer Inspection from Microscopy and Theory. Journal of Physical Chemistry C, 2019, 123, 12716-12721. | 3.1 | 14 |
| 17 | Novel polymorphic phase of two-dimensional VSe_2 : the $1T'$ structure and its lattice dynamics. Nanoscale, 2019, 11, 20096-20101. | 5.6 | 13 |
| 18 | Multiple charge density wave phases of monolayer VSe_2 manifested by graphene substrates. Nanotechnology, 2021, 32, 364002. | 2.6 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Completing the picture of initial oxidation on copper. <i>Applied Surface Science</i> , 2021, 562, 150148. | 6.1 | 12 |
| 20 | Anomalous phase relations of quantum size effects in ultrathin Pb films on Si(111). <i>Physical Review B</i> , 2013, 87, . | 3.2 | 11 |
| 21 | Universal renormalization group flow toward perfect Fermi-surface nesting driven by enhanced electron-electron correlations in monolayer vanadium diselenide. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 10 |
| 22 | Unidentified major p-type source in SnSe: Multivacancies. <i>NPG Asia Materials</i> , 2022, 14, . | 7.9 | 8 |
| 23 | $\sqrt{3} \times \sqrt{3}$ Charge Density Wave Driven by Lattice Distortion in Monolayer VSe ₂ . <i>Journal of the Korean Physical Society</i> , 2020, 76, 412-415. | 0.7 | 7 |
| 24 | Controlling Spin-Orbit Coupling to Tailor Type-II Dirac Bands. <i>ACS Nano</i> , 2022, 16, 11227-11233. | 14.6 | 6 |
| 25 | Lattice Dynamics Driven by Tunneling Current in 1T Structure of Bilayer VSe ₂ . <i>Journal of the Korean Physical Society</i> , 2020, 77, 1031-1034. | 0.7 | 5 |
| 26 | Influence of Nanosize Hole Defects and their Geometric Arrangements on the Superfluid Density in Atomically Thin Single Crystals of Indium Superconductor. <i>Physical Review Letters</i> , 2021, 127, 127003. | 7.8 | 5 |
| 27 | Direct observation of trapped charges at ReSe ₂ and graphene heterojunctions. <i>Applied Surface Science</i> , 2022, 579, 152187. | 6.1 | 5 |
| 28 | Fabrication of ZnCoO nanowires and characterization of their magnetic properties. <i>Nanoscale Research Letters</i> , 2014, 9, 221. | 5.7 | 2 |
| 29 | Influence of the State of the Tungsten Tip on STM Topographic Images of SnSe Surfaces. <i>Journal of the Korean Physical Society</i> , 2018, 72, 658-661. | 0.7 | 2 |
| 30 | Intrinsic defects and local charge ordering of single-crystal FeTe. <i>Journal of the Korean Physical Society</i> , 2021, 79, 552-556. | 0.7 | 0 |