

# Hyun-Jung Kim

## List of Publications by Year in descending order

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papers

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567144

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526166

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32  
docs citations

32  
times ranked

1411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reshaped Weyl fermionic dispersions driven by Coulomb interactions in $\text{MoTe}_2$ . Physical Review B, 2022, 105, .		
2	Circular Dichroism of Emergent Chiral Stacking Orders in Quasi-One-Dimensional Charge Density Waves. Physical Review Letters, 2022, 128, 046401.	2.9	16
3	Anomalous Dimensionality-Driven Phase Transition of $\text{MoTe}_2$ in Van der Waals Heterostructure. Advanced Functional Materials, 2021, 31, 2107376.	7.8	14
4	$Z_2$ topology of bismuth. Physical Review Materials, 2021, 5, .	0.9	11
5	Two-dimensional chiral stacking orders in quasi-one-dimensional charge density waves. Physical Review B, 2020, 102, .	1.1	4
6	Ferromagnetic Weyl Fermions in Two-Dimensional Layered Electride $\text{Gd}_2\text{C}$ . Physical Review Letters, 2020, 125, 187203.	1.1	13
7	Symmetry Dictated Grain Boundary State in a Two-Dimensional Topological Insulator. Nano Letters, 2020, 20, 5837-5843.	4.5	16
8	Competing edge structures of Sb and Bi bilayers generated by trivial and nontrivial band topologies. Physical Review B, 2018, 98, .	1.1	5
9	Contrasting diffusion behaviors of O and F atoms on graphene and within bilayer graphene. Physical Chemistry Chemical Physics, 2017, 19, 9107-9112.	1.3	4
10	Comment on "Quasi-One-Dimensional Metal-Insulator Transitions in Compound Semiconductor Surfaces". Physical Review Letters, 2017, 118, 239601.	2.9	5
11	Microscopic mechanism of the tunable band gap in potassium-doped few-layer black phosphorus. Physical Review B, 2017, 96, .	1.1	17
12	Origins of the structural phase transitions in $\text{MoTe}_2$ and $\text{WTe}_2$ . Physical Review B, 2017, 95, .	1.1	97
13	Spin-orbit coupling effects on the stability of two competing structures in $\text{Pb/Si}(111)$ and $\text{Pb/Ge}(111)$ . Physical Review B, 2016, 94, .	1.1	25
14	Competing magnetic orderings and tunable topological states in two-dimensional hexagonal organometallic lattices. Physical Review B, 2016, 93, .	1.1	43
15	Origin of Symmetric Dimer Images of $\text{Si}(001)$ Observed by Low-Temperature Scanning Tunneling Microscopy. Scientific Reports, 2016, 6, 27868.	1.6	10
16	Contrasting interedge superexchange interactions of graphene nanoribbons embedded in $\text{h-BN}$ and graphane. Physical Review B, 2015, 92, .	1.1	17
17	Giant spin-orbit-induced spin splitting in Bi zigzag chains on $\text{GaAs}(110)$ . Physical Review B, 2015, 92, .	1.1	5
18	Nature of the Insulating Ground State of the $\text{d}^5$ Postperovskite $\text{CaIrO}_3$ . Physical Review Letters, 2015, 115, 096401.	2.9	22

#	ARTICLE	IF	CITATIONS
19	Equivalence of electronic and mechanical stresses in structural phase stabilization: A case study of indium wires on Si(111). <i>Physical Review B</i> , 2015, 91, .	1.1	10
20	Stabilization and Manipulation of Electronically Phase-Separated Ground States in Defective Indium Atom Wires on Silicon. <i>Physical Review Letters</i> , 2014, 113, 196802.	2.9	22
21	Antiferromagnetic Slater Insulator Phase of Na <sub>2</sub> IrO <sub>3</sub> . <i>Scientific Reports</i> , 2014, 4, 5253.	1.6	21
22	Contribution of van der Waals interactions to the adsorption energy of C <sub>2</sub> H <sub>2</sub> , C <sub>2</sub> H <sub>4</sub> , and C <sub>6</sub> H <sub>6</sub> on Si(100). <i>Chemical Physics Letters</i> , 2013, 557, 159-162.	1.2	11
23	Driving Force of Phase Transition in Indium Nanowires on Si(111). <i>Physical Review Letters</i> , 2013, 110, 116801.	2.9	34
24	Physisorption of DNA Nucleobases on <i>h</i> -BN and Graphene: vdW-Corrected DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13435-13441.	1.5	198
25	Fluorine-induced local magnetic moment in graphene: A hybrid DFT study. <i>Physical Review B</i> , 2013, 87, .	1.1	38
26	Ferrimagnetic Slater Insulator Phase of the $\text{SnGe}$ . <i>Physical Review Letters</i> , 2013, 111, 116801.	2.9	13
27	Benzene adsorbed on Si(001): The role of electron correlation and finite temperature. <i>Physical Review B</i> , 2012, 85, .	1.1	28
28	Peierls Instability and Spin Orderings of Ultranarrow Graphene Nanoribbons in Graphane. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13795-13799.	1.5	5
29	Peierls instability and ferrimagnetic ordering of quasi-one-dimensional carbon chains generated in H-passivated graphene. <i>Physical Review B</i> , 2011, 83, .	1.1	8
30	A density-functional-theory study of biradicals from benzene to hexacene. <i>Chemical Physics Letters</i> , 2011, 516, 141-145.	1.2	5
31	Length- and parity-dependent electronic states in one-dimensional carbon atomic chains on C(111). <i>Physical Review B</i> , 2010, 82, .	1.1	2