

Hyun-Jung Kim

List of Publications by Year in descending order

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papers

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32
docs citations

32
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1411
citing authors

#	ARTICLE	IF	CITATIONS
1	Physisorption of DNA Nucleobases on h -BN and Graphene: vdW-Corrected DFT Calculations. Journal of Physical Chemistry C, 2013, 117, 13435-13441.	1.5	198
2	Origins of the structural phase transitions in $MoTe_2$ and WTe_2 . Physical Review B, 2017, 95, .	1.1	97
3	Competing magnetic orderings and tunable topological states in two-dimensional hexagonal organometallic lattices. Physical Review B, 2016, 93, .	1.1	43
4	Fluorine-induced local magnetic moment in graphene: A hybrid DFT study. Physical Review B, 2013, 87, .	1.1	38
5	Driving Force of Phase Transition in Indium Nanowires on Si(111). Physical Review Letters, 2013, 110, 116801.	2.9	34
6	Ferromagnetic Weyl Fermions in Two-Dimensional Layered Electride GdC_2 . Physical Review Letters, 2020, 125, 187203.	2.9	33
7	Benzene adsorbed on Si(001): The role of electron correlation and finite temperature. Physical Review B, 2012, 85, .	1.1	28
8	Spin-orbit coupling effects on the stability of two competing structures in Pb/Si(111) and Pb/Ge(111). Physical Review B, 2016, 94, .	1.1	25
9	Stabilization and Manipulation of Electronically Phase-Separated Ground States in Defective Indium Atom Wires on Silicon. Physical Review Letters, 2014, 113, 196802.	2.9	22
10	Nature of the Insulating Ground State of the d_5 Postperovskite $CaIrO_3$. Physical Review Letters, 2015, 115, 096401.	2.9	22
11	Antiferromagnetic Slater Insulator Phase of Na_2IrO_3 . Scientific Reports, 2014, 4, 5253.	1.6	21
12	Contrasting interedge superexchange interactions of graphene nanoribbons embedded in h -BN and graphene. Physical Review B, 2015, 92, .	1.1	17
13	Microscopic mechanism of the tunable band gap in potassium-doped few-layer black phosphorus. Physical Review B, 2017, 96, .	1.1	17
14	Symmetry Dictated Grain Boundary State in a Two-Dimensional Topological Insulator. Nano Letters, 2020, 20, 5837-5843.	4.5	16
15	Circular Dichroism of Emergent Chiral Stacking Orders in Quasi-One-Dimensional Charge Density Waves. Physical Review Letters, 2022, 128, 046401.	2.9	16
16	Anomalous Dimensionality-Driven Phase Transition of $MoTe_2$ in Van der Waals Heterostructure. Advanced Functional Materials, 2021, 31, 2107376.	7.8	14
17	Ferrimagnetic Slater Insulator Phase of the $SnGe$. Physical Review Letters, 2021, 126, 066401.	2.9	13
18	Contribution of van der Waals interactions to the adsorption energy of C_2H_2 , C_2H_4 , and C_6H_6 on Si(100). Chemical Physics Letters, 2013, 557, 159-162.	1.2	11

#	ARTICLE	IF	CITATIONS
19	Z^2 topology of bismuth. Physical Review Materials, 2021, 5, .	0.9	11
20	Equivalence of electronic and mechanical stresses in structural phase stabilization: A case study of indium wires on Si(111). Physical Review B, 2015, 91, .	1.1	10
21	Origin of Symmetric Dimer Images of Si(001) Observed by Low-Temperature Scanning Tunneling Microscopy. Scientific Reports, 2016, 6, 27868.	1.6	10
22	Peierls instability and ferrimagnetic ordering of quasi-one-dimensional carbon chains generated in H-passivated graphene. Physical Review B, 2011, 83, .	1.1	8
23	A density-functional-theory study of biradicals from benzene to hexacene. Chemical Physics Letters, 2011, 516, 141-145.	1.2	5
24	Peierls Instability and Spin Orderings of Ultranarrow Graphene Nanoribbons in Graphane. Journal of Physical Chemistry C, 2012, 116, 13795-13799.	1.5	5
25	Giant spin-orbit-induced spin splitting in Bi zigzag chains on GaAs(110). Physical Review B, 2015, 92, .	1.1	5
26	Comment on "Quasi-One-Dimensional Metal-Insulator Transitions in Compound Semiconductor Surfaces" Physical Review Letters, 2017, 118, 239601.	2.9	5
27	Competing edge structures of Sb and Bi bilayers generated by trivial and nontrivial band topologies. Physical Review B, 2018, 98, .	1.1	5
28	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
29	Two-dimensional chiral stacking orders in quasi-one-dimensional charge density waves. Physical Review B, 2020, 102, .	1.1	4
30	Reshaped Weyl fermionic dispersions driven by Coulomb interactions in MoTe_2 . Physical Review B, 2022, 105, .		
31	Length- and parity-dependent electronic states in one-dimensional carbon atomic chains on C(111). Physical Review B, 2010, 82, .	1.1	2