

Youngkuk Kim

List of Publications by Year in descending order

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33
papers

2,537
citations

394421

19
h-index

377865

34
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35
all docs

35
docs citations

35
times ranked

3750
citing authors

#	ARTICLE	IF	CITATIONS
1	On-demand quantum spin Hall insulators controlled by two-dimensional ferroelectricity. <i>Materials Horizons</i> , 2022, 9, 1440-1447.	12.2	13
2	Two-dimensional weak topological insulators in inversion-symmetric crystals. <i>Physical Review B</i> , 2022, 105, .	3.2	7
3	Higher-Order Topological Corner State Tunneling in Twisted Bilayer Graphene. <i>Carbon</i> , 2021, 174, 260-265.	10.3	14
4	Coexistence of Surface Superconducting and Three-Dimensional Topological Dirac States in Semimetal KZnBi. <i>Physical Review X</i> , 2021, 11, .	8.9	8
5	Decelerated Hot Carrier Cooling in Graphene via Nondissipative Carrier Injection from MoS ₂ . <i>ACS Nano</i> , 2020, 14, 13905-13912.	14.6	22
6	Ferromagnetic nodal-line metal in monolayer h -InC. <i>Physical Review B</i> , 2019, 100, .	3.2	14
7	Creation of two-dimensional layered Zintl phase by dimensional manipulation of crystal structure. <i>Science Advances</i> , 2019, 5, eaax0390.	10.3	19
8	Topological Semimetals from First Principles. <i>Annual Review of Materials Research</i> , 2019, 49, 153-183.	9.3	154
9	Stiefel-Whitney classes and topological phases in band theory. <i>Chinese Physics B</i> , 2019, 28, 117101.	1.4	44
10	Dual topological nodal line and nonsymmorphic Dirac semimetal in three dimensions. <i>Physical Review B</i> , 2019, 99, .	3.2	8
11	Higher-Order Topological Insulator in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2019, 123, 216803.	7.8	173
12	Millimeter-Scale Growth of Single-Oriented Graphene on a Palladium Silicide Amorphous Film. <i>ACS Nano</i> , 2019, 13, 1127-1135.	14.6	1
13	Crystalline Bilayer Graphene with Preferential Stacking from Ni-Cu Gradient Alloy. <i>ACS Nano</i> , 2018, 12, 2275-2282.	14.6	43
14	Design of 2D massless Dirac fermion systems and quantum spin Hall insulators based on sp^2 carbon sheets. <i>Npj Computational Materials</i> , 2018, 4, .	8.7	20
15	Dirac-Weyl Semimetal: Coexistence of Dirac and Weyl Fermions in Polar Hexagonal ABC Crystals. <i>Physical Review Letters</i> , 2018, 121, 106404.	7.8	50
16	Band Topology and Linking Structure of Nodal Line Semimetals with Z^2 Monopole Charges. <i>Physical Review Letters</i> , 2018, 121, 106403.	7.8	164
17	Wallpaper fermions and the nonsymmorphic Dirac insulator. <i>Science</i> , 2018, 361, 246-251.	12.6	125
18	Type-II Dirac line node in strained Na_2N . <i>Physical Review Materials</i> , 2018, 2, .		

#	ARTICLE	IF	CITATIONS
19	Large-area synthesis of high-quality monolayer 1Tâ€™-WTe ₂ flakes. 2D Materials, 2017, 4, 021008.	4.4	81
20	Influence of the Dimensionality and Organic Cation on Crystal and Electronic Structure of Organometallic Halide Perovskites. Journal of Physical Chemistry C, 2017, 121, 6569-6574.	3.1	47
21	Monolayer Single-Crystal 1Tâ€™-MoTe ₂ Grown by Chemical Vapor Deposition Exhibits Weak Antilocalization Effect. Nano Letters, 2016, 16, 4297-4304.	9.1	205
22	Two-Dimensionalâ€™-Conjugated Covalent-Organic Frameworks as Quantum Anomalous Hall Topological Insulators. Physical Review Letters, 2016, 116, 096601.	7.8	75
23	Double Dirac Semimetals in Three Dimensions. Physical Review Letters, 2016, 116, 186402.	7.8	273
24	Substantial optical dielectric enhancement by volume compression inLiAsSe2. Physical Review B, 2016, 93, .	3.2	1
25	Strain-Induced Ferroelectric Topological Insulator. Nano Letters, 2016, 16, 1663-1668.	9.1	82
26	Dirac Line Nodes in Inversion-Symmetric Crystals. Physical Review Letters, 2015, 115, 036806.	7.8	674
27	Layered Topological Crystalline Insulators. Physical Review Letters, 2015, 115, 086802.	7.8	28
28	Atomic-scale mechanism of grain boundary motion in graphene. Carbon, 2015, 84, 146-150.	10.3	8
29	Topological domain walls and quantum valley Hall effects in silicene. Physical Review B, 2014, 89, .	3.2	59
30	Nanometer-Scale Loop Currents and Induced Magnetic Dipoles in Carbon Nanotubes with Defects. Nano Letters, 2011, 11, 1418-1422.	9.1	6
31	Calcium-Decorated, Hydroxylated Single-Walled Carbon Nanotubes for Hydrogen Storage: A First-Principles Study. ChemPhysChem, 2011, 12, 777-780.	2.1	5
32	Dynamics and stability of divacancy defects in graphene. Physical Review B, 2011, 84, .	3.2	90
33	Trends in charge transfer and spin alignment of metallocene on graphene. Physical Review B, 2011, 83, .	3.2	15