

Youngkuk Kim

List of Publications by Year in descending order

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33
papers

2,537
citations

394421

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377865

34
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all docs

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docs citations

35
times ranked

3750
citing authors

#	ARTICLE	IF	CITATIONS
1	Dirac Line Nodes in Inversion-Symmetric Crystals. <i>Physical Review Letters</i> , 2015, 115, 036806.	7.8	674
2	Double Dirac Semimetals in Three Dimensions. <i>Physical Review Letters</i> , 2016, 116, 186402.	7.8	273
3	Monolayer Single-Crystal $1T\text{-MoTe}_2$ Grown by Chemical Vapor Deposition Exhibits Weak Antilocalization Effect. <i>Nano Letters</i> , 2016, 16, 4297-4304.	9.1	205
4	Higher-Order Topological Insulator in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2019, 123, 216803.	7.8	173
5	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
6	Topological Semimetals from First Principles. <i>Annual Review of Materials Research</i> , 2019, 49, 153-183.	9.3	154
7	Wallpaper fermions and the nonsymmorphic Dirac insulator. <i>Science</i> , 2018, 361, 246-251.	12.6	125
8	Dynamics and stability of divacancy defects in graphene. <i>Physical Review B</i> , 2011, 84, .	3.2	90
9	Strain-Induced Ferroelectric Topological Insulator. <i>Nano Letters</i> , 2016, 16, 1663-1668.	9.1	82
10	Large-area synthesis of high-quality monolayer $1T\text{-WTe}_2$ flakes. <i>2D Materials</i> , 2017, 4, 021008.	4.4	81
11	Two-Dimensional π -Conjugated Covalent-Organic Frameworks as Quantum Anomalous Hall Topological Insulators. <i>Physical Review Letters</i> , 2016, 116, 096601.	7.8	75
12	Topological domain walls and quantum valley Hall effects in silicene. <i>Physical Review B</i> , 2014, 89, .	3.2	59
13	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
14	Influence of the Dimensionality and Organic Cation on Crystal and Electronic Structure of Organometallic Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6569-6574.	3.1	47
15	Stiefel-Whitney classes and topological phases in band theory. <i>Chinese Physics B</i> , 2019, 28, 117101.	1.4	44
16	Crystalline Bilayer Graphene with Preferential Stacking from Ni-Cu Gradient Alloy. <i>ACS Nano</i> , 2018, 12, 2275-2282.	14.6	43
17	Layered Topological Crystalline Insulators. <i>Physical Review Letters</i> , 2015, 115, 086802.	7.8	28
18	Decelerated Hot Carrier Cooling in Graphene via Nondissipative Carrier Injection from MoS_2 . <i>ACS Nano</i> , 2020, 14, 13905-13912.	14.6	22

#	ARTICLE	IF	CITATIONS
19	Design of 2D massless Dirac fermion systems and quantum spin Hall insulators based on sp^2 carbon sheets. Npj Computational Materials, 2018, 4, .	8.7	20
20	Creation of two-dimensional layered Zintl phase by dimensional manipulation of crystal structure. Science Advances, 2019, 5, eaax0390.	10.3	19
21	Trends in charge transfer and spin alignment of metallocene on graphene. Physical Review B, 2011, 83, .	3.2	15
22	Ferromagnetic nodal-line metal in monolayer h -InC. Physical Review B, 2019, 100, .	3.2	14
23	Higher-Order Topological Corner State Tunneling in Twisted Bilayer Graphene. Carbon, 2021, 174, 260-265.	10.3	14
24	On-demand quantum spin Hall insulators controlled by two-dimensional ferroelectricity. Materials Horizons, 2022, 9, 1440-1447.	12.2	13
25	Atomic-scale mechanism of grain boundary motion in graphene. Carbon, 2015, 84, 146-150.	10.3	8
26	Dual topological nodal line and nonsymmorphic Dirac semimetal in three dimensions. Physical Review B, 2019, 99, .	3.2	8
27	Coexistence of Surface Superconducting and Three-Dimensional Topological Dirac States in Semimetal KZnBi. Physical Review X, 2021, 11, .	8.9	8
28	Type-II Dirac line node in strained NaN_3 . Physical Review Materials, 2018, 2, .	2.3	7
29	Two-dimensional weak topological insulators in inversion-symmetric crystals. Physical Review B, 2022, 105, .	3.2	7
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	Substantial optical dielectric enhancement by volume compression in LiAsSe ₂ . Physical Review B, 2016, 93, .	3.2	1
33	Millimeter-Scale Growth of Single-Oriented Graphene on a Palladium Silicide Amorphous Film. ACS Nano, 2019, 13, 1127-1135.	14.6	1