

Jahyun Koo

List of Publications by Year in descending order

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28
papers

1,657
citations

394421

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477307

29
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docs citations

29
times ranked

2729
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of Gas-Sensing Performance of Large-Area Tungsten Disulfide Nanosheets by Surface Functionalization. <i>ACS Nano</i> , 2016, 10, 9287-9296.	14.6	351
2	Multilayer Graphynes for Lithium Ion Battery Anode. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6919-6923.	3.1	189
3	Cohesion energetics of carbon allotropes: Quantum Monte Carlo study. <i>Journal of Chemical Physics</i> , 2014, 140, 114702.	3.0	166
4	Giant room temperature anomalous Hall effect and tunable topology in a ferromagnetic topological semimetal Co ₂ MnAl. <i>Nature Communications</i> , 2020, 11, 3476.	12.8	127
5	Graphdiyne as a high-capacity lithium ion battery anode material. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	104
6	Chirality-driven topological electronic structure of DNA-like materials. <i>Nature Materials</i> , 2021, 20, 638-644.	27.5	83
7	Amorphous-Phase-Mediated Crystallization of Ni Nanocrystals Revealed by High-Resolution Liquid-Phase Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 763-768.	13.7	76
8	Graphene-templated directional growth of an inorganic nanowire. <i>Nature Nanotechnology</i> , 2015, 10, 423-428.	31.5	75
9	Widely tunable band gaps of graphdiyne: an ab initio study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8935-8939.	2.8	56
10	Finite-temperature violation of the anomalous transverse Wiedemann-Franz law. <i>Science Advances</i> , 2020, 6, eaaz3522.	10.3	50
11	Intrinsic Anomalous Nernst Effect Amplified by Disorder in a Half-Metallic Semimetal. <i>Physical Review X</i> , 2019, 9, .	8.9	45
12	Exotic Geometrical and Electronic Properties in Hydrogenated Graphyne. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11960-11967.	3.1	41
13	Giant c-axis nonlinear anomalous Hall effect in Td-MoTe ₂ and WTe ₂ . <i>Nature Communications</i> , 2021, 12, 2049.	12.8	41
14	Evidence of topological boundary modes with topological nodal-point superconductivity. <i>Nature Physics</i> , 2021, 17, 1413-1419.	16.7	40
15	Tailoring the Electronic Band Gap of Graphyne. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2463-2468.	3.1	34
16	One-Dimensional Assembly on Two-Dimensions: AuCN Nanowire Epitaxy on Graphene for Hybrid Phototransistors. <i>Nano Letters</i> , 2018, 18, 6214-6221.	9.1	30
17	Exchange-biased topological transverse thermoelectric effects in a Kagome ferrimagnet. <i>Nature Communications</i> , 2022, 13, 1091.	12.8	21
18	Vertical dielectric screening of few-layer van der Waals semiconductors. <i>Nanoscale</i> , 2017, 9, 14540-14547.	5.6	20

#	ARTICLE	IF	CITATIONS
19	Spin and Charge Interconversion in Dirac-Semimetal Thin Films. <i>Physical Review Applied</i> , 2021, 16, .	3.8	20
20	Calcium-decorated carbon nanostructures for the selective capture of carbon dioxide. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29086-29091.	2.8	15
21	Active learning algorithm for computational physics. <i>Physical Review Research</i> , 2020, 2, .	3.6	14
22	Off-Plane Dielectric Screening of Few-Layer Graphdiyne and Its Family. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2571-2578.	8.0	13
23	Theoretical investigation of the vertical dielectric screening dependence on defects for few-layered van der Waals materials. <i>RSC Advances</i> , 2019, 9, 40309-40315.	3.6	12
24	Quantum oscillations, magnetic breakdown and thermal Hall effect in $\text{Co}_3\text{Sn}_2\text{S}_2$. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 454003.	2.8	12
25	Coexistence of Surface Superconducting and Three-Dimensional Topological Dirac States in Semimetal KZnBi . <i>Physical Review X</i> , 2021, 11, .	8.9	8
26	sp^2 Carbon Sheets as Promising Anode Materials for Na-Ion Batteries. <i>ACS Omega</i> , 2018, 3, 14477-14481.	3.5	6
27	Pressure-induced phase transitions and superconductivity in magnesium carbides. <i>Scientific Reports</i> , 2019, 9, 20253.	3.3	4
28	DFT and TB study of the geometry of hydrogen adsorbed on graphynes. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 385301.	1.8	2