

# Jahyun Koo

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

1,657  
citations

394286

19  
h-index

477173

29  
g-index

29  
all docs

29  
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.	7.3	351
2	Multilayer Graphynes for Lithium Ion Battery Anode. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6919-6923.	1.5	189
3	Cohesion energetics of carbon allotropes: Quantum Monte Carlo study. <i>Journal of Chemical Physics</i> , 2014, 140, 114702.	1.2	166
4	Giant room temperature anomalous Hall effect and tunable topology in a ferromagnetic topological semimetal Co <sub>2</sub> MnAl. <i>Nature Communications</i> , 2020, 11, 3476.	5.8	127
5	Graphdiyne as a high-capacity lithium ion battery anode material. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	104
6	Chirality-driven topological electronic structure of DNA-like materials. <i>Nature Materials</i> , 2021, 20, 638-644.	13.3	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.	6.6	76
8	Graphene-templated directional growth of an inorganic nanowire. <i>Nature Nanotechnology</i> , 2015, 10, 423-428.	15.6	75
9	Widely tunable band gaps of graphdiyne: an ab initio study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8935-8939.	1.3	56
10	Finite-temperature violation of the anomalous transverse Wiedemann-Franz law. <i>Science Advances</i> , 2020, 6, eaaz3522.	4.7	50
11	Intrinsic Anomalous Nernst Effect Amplified by Disorder in a Half-Metallic Semimetal. <i>Physical Review X</i> , 2019, 9, .	2.8	45
12	Exotic Geometrical and Electronic Properties in Hydrogenated Graphyne. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11960-11967.	1.5	41
13	Giant c-axis nonlinear anomalous Hall effect in Td-MoTe <sub>2</sub> and WTe <sub>2</sub> . <i>Nature Communications</i> , 2021, 12, 2049.	5.8	41
14	Evidence of topological boundary modes with topological nodal-point superconductivity. <i>Nature Physics</i> , 2021, 17, 1413-1419.	6.5	40
15	Tailoring the Electronic Band Gap of Graphyne. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2463-2468.	1.5	34
16	One-Dimensional Assembly on Two-Dimensions: AuCN Nanowire Epitaxy on Graphene for Hybrid Phototransistors. <i>Nano Letters</i> , 2018, 18, 6214-6221.	4.5	30
17	Exchange-biased topological transverse thermoelectric effects in a Kagome ferrimagnet. <i>Nature Communications</i> , 2022, 13, 1091.	5.8	21
18	Vertical dielectric screening of few-layer van der Waals semiconductors. <i>Nanoscale</i> , 2017, 9, 14540-14547.	2.8	20

#	ARTICLE	IF	CITATIONS
19	Spin and Charge Interconversion in Dirac-Semimetal Thin Films. <i>Physical Review Applied</i> , 2021, 16, .	1.5	20
20	Calcium-decorated carbon nanostructures for the selective capture of carbon dioxide. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29086-29091.	1.3	15
21	Active learning algorithm for computational physics. <i>Physical Review Research</i> , 2020, 2, .	1.3	14
22	Off-Plane Dielectric Screening of Few-Layer Graphdiyne and Its Family. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 2571-2578.	4.0	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.	1.7	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.	1.3	12
25	Coexistence of Surface Superconducting and Three-Dimensional Topological Dirac States in Semimetal $\text{KZnBi}$ . <i>Physical Review X</i> , 2021, 11, .	2.8	8
26	$\text{sp}^2$ Carbon Sheets as Promising Anode Materials for Na-Ion Batteries. <i>ACS Omega</i> , 2018, 3, 14477-14481.	1.6	6
27	Pressure-induced phase transitions and superconductivity in magnesium carbides. <i>Scientific Reports</i> , 2019, 9, 20253.	1.6	4
28	DFT and TB study of the geometry of hydrogen adsorbed on graphynes. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 385301.	0.7	2