

# Changwon Park

## List of Publications by Year in descending order

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22  
papers

1,041  
citations

567281

15  
h-index

677142

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

2415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Entropy-driven structural transition and kinetic trapping in formamidinium lead iodide perovskite. <i>Science Advances</i> , 2016, 2, e1601650.	10.3	203
2	Origin of long lifetime of band-edge charge carriers in organic-inorganic lead iodide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7519-7524.	7.1	137
3	Binding and Diffusion of Lithium in Graphite: Quantum Monte Carlo Benchmarks and Validation of van der Waals Density Functional Methods. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5318-5323.	5.3	117
4	Controlling Half-Metallicity of Graphene Nanoribbons by Using a Ferroelectric Polymer. <i>ACS Nano</i> , 2010, 4, 1345-1350.	14.6	89
5	Spatially resolved one-dimensional boundary states in graphene-hexagonal boron nitride planar heterostructures. <i>Nature Communications</i> , 2014, 5, 5403.	12.8	71
6	Solid-phase hetero epitaxial growth of $\Gamma$ -phase formamidinium perovskite. <i>Nature Communications</i> , 2020, 11, 5514.	12.8	71
7	Interlayer coupling enhancement in graphene/hexagonal boron nitride heterostructures by intercalated defects or vacancies. <i>Journal of Chemical Physics</i> , 2014, 140, 134706.	3.0	52
8	Electronic Properties of Bilayer Graphene Strongly Coupled to Interlayer Stacking and an External Electric Field. <i>Physical Review Letters</i> , 2015, 115, 015502.	7.8	47
9	Formation of unconventional standing waves at graphene edges by valley mixing and pseudospin rotation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18622-18625.	7.1	45
10	Dissociation of Single-Strand DNA: Single-Walled Carbon Nanotube Hybrids by Watson-Crick Base-Pairing. <i>Journal of the American Chemical Society</i> , 2010, 132, 10964-10966.	13.7	37
11	Global and local structures of the Ge-Sb-Te ternary alloy system for a phase-change memory device. <i>Physical Review B</i> , 2006, 73, .	3.2	35
12	Growth of Metal Phthalocyanine on Deactivated Semiconducting Surfaces Steered by Selective Orbital Coupling. <i>Physical Review Letters</i> , 2015, 115, 096101.	7.8	30
13	Electron Emission Originated from Free-Electron-like States of Alkali-Doped Boron Nitride Nanotubes. <i>Journal of the American Chemical Society</i> , 2008, 130, 17012-17015.	13.7	20
14	Electronic structure of defects and quantum transport in carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2006, 376-377, 7-10.	2.7	19
15	Atomic and electronic structures of amorphous $\text{Ge}_{20}\text{Sb}_{20}\text{Te}_{50}$ ; melt-quenched versus ideal glasses. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 205504.	1.8	16
16	Decay behavior of localized states at reconstructed armchair graphene edges. <i>Physical Review B</i> , 2013, 88, .	3.2	15
17	Weak competing interactions control assembly of strongly bonded TCNQ ionic acceptor molecules on silver surfaces. <i>Physical Review B</i> , 2014, 90, .	3.2	11
18	Tunneling-Induced Spectral Broadening of a Single Atom in a Three-Dimensional Optical Lattice. <i>Nano Letters</i> , 2011, 11, 729-733.	9.1	10

#	ARTICLE	IF	CITATIONS
19	Hierarchical structure and phase transition of $(\text{GeTe})_n(\text{Sb}_2\text{Te}_3)_m$ used for phase-change memory. Physical Review B, 2008, 78, .	3.2	6
20	HYDROGEN STORAGE ENHANCEMENT VIA TRANSITION METAL DECORATION ON METAL ORGANIC FRAMEWORKS: A FIRST-PRINCIPLES STUDY. Nano, 2012, 07, 1250044.	1.0	5
21	Topography inversion in scanning tunneling microscopy of single-atom-thick materials from penetrating substrate states. Scientific Reports, 2022, 12, 7321.	3.3	2
22	Calculation of charge density wave phase diagram by interacting eigenmodes method. Journal of Physics Condensed Matter, 0, , .	1.8	0