

# Cheol-Hwan Park

## List of Publications by Citations

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66

papers

8,035

citations

37

h-index

75

g-index

75

ext. papers

9,074

ext. citations

8.6

avg, IF

6.01

L-index

#	Paper	IF	Citations
66	Graphene at the edge: stability and dynamics. <i>Science</i> , <b>2009</b> , 323, 1705-8	33.3	1042
65	Quasiparticle energies and band gaps in graphene nanoribbons. <i>Physical Review Letters</i> , <b>2007</b> , 99, 186804	7.4	937
64	Anisotropic behaviours of massless Dirac fermions in graphene under periodic potentials. <i>Nature Physics</i> , <b>2008</b> , 4, 213-217	16.2	531
63	Excitonic effects on the optical response of graphene and bilayer graphene. <i>Physical Review Letters</i> , <b>2009</b> , 103, 186802	7.4	509
62	Controlling inelastic light scattering quantum pathways in graphene. <i>Nature</i> , <b>2011</b> , 471, 617-20	50.4	422
61	Ising-Type Magnetic Ordering in Atomically Thin FePS. <i>Nano Letters</i> , <b>2016</b> , 16, 7433-7438	11.5	412
60	Energy gaps and stark effect in boron nitride nanoribbons. <i>Nano Letters</i> , <b>2008</b> , 8, 2200-3	11.5	340
59	New generation of massless Dirac fermions in graphene under external periodic potentials. <i>Physical Review Letters</i> , <b>2008</b> , 101, 126804	7.4	316
58	Bright visible light emission from graphene. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 676-81	28.7	226
57	EPW: A program for calculating the electron-phonon coupling using maximally localized Wannier functions. <i>Computer Physics Communications</i> , <b>2010</b> , 181, 2140-2148	4.2	225
56	Electron beam supercollimation in graphene superlattices. <i>Nano Letters</i> , <b>2008</b> , 8, 2920-4	11.5	223
55	Many-body interactions in quasi-freestanding graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 11365-9	11.5	166
54	Velocity renormalization and carrier lifetime in graphene from the electron-phonon interaction. <i>Physical Review Letters</i> , <b>2007</b> , 99, 086804	7.4	162
53	Photoelectron spin-flipping and texture manipulation in a topological insulator. <i>Nature Physics</i> , <b>2013</b> , 9, 293-298	16.2	152
52	Electron-phonon interactions in graphene, bilayer graphene, and graphite. <i>Nano Letters</i> , <b>2008</b> , 8, 4229-33	11.5	138
51	Suppression of magnetic ordering in XXZ-type antiferromagnetic monolayer NiPS. <i>Nature Communications</i> , <b>2019</b> , 10, 345	17.4	136
50	A tunable phonon-exciton Fano system in bilayer graphene. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 32-6	28.7	126

49	Landau levels and quantum Hall effect in graphene superlattices. <i>Physical Review Letters</i> , <b>2009</b> , 103, 046808	7.4	125
48	Making massless Dirac fermions from a patterned two-dimensional electron gas. <i>Nano Letters</i> , <b>2009</b> , 9, 1793-7	11.5	120
47	Excitons and many-electron effects in the optical response of single-walled boron nitride nanotubes. <i>Physical Review Letters</i> , <b>2006</b> , 96, 126105	7.4	115
46	A Rigorous Method of Calculating Exfoliation Energies from First Principles. <i>Nano Letters</i> , <b>2018</b> , 18, 2759-2765	11.5	114
45	Electron-phonon interactions and the intrinsic electrical resistivity of graphene. <i>Nano Letters</i> , <b>2014</b> , 14, 1113-9	11.5	109
44	Observation of carrier-density-dependent many-body effects in graphene via tunneling spectroscopy. <i>Physical Review Letters</i> , <b>2010</b> , 104, 036805	7.4	96
43	Angle-resolved photoemission spectra of graphene from first-principles calculations. <i>Nano Letters</i> , <b>2009</b> , 9, 4234-9	11.5	93
42	The Electronic Thermal Conductivity of Graphene. <i>Nano Letters</i> , <b>2016</b> , 16, 2439-43	11.5	92
41	Spin polarization of photoelectrons from topological insulators. <i>Physical Review Letters</i> , <b>2012</b> , 109, 097601	11.5	82
40	Graphene Dirac fermions in one-dimensional inhomogeneous field profiles: Transforming magnetic to electric field. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	80
39	Phonon-limited resistivity of graphene by first-principles calculations: Electron-phonon interactions, strain-induced gauge field, and Boltzmann equation. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	76
38	Bulk properties of the van der Waals hard ferromagnet V13. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	69
37	Tunable excitons in biased bilayer graphene. <i>Nano Letters</i> , <b>2010</b> , 10, 426-31	11.5	66
36	First-principles study of electron linewidths in graphene. <i>Physical Review Letters</i> , <b>2009</b> , 102, 076803	7.4	65
35	Charge-Spin Correlation in van der Waals Antiferromagnet NiPS <sub>3</sub> . <i>Physical Review Letters</i> , <b>2018</b> , 120, 136402	7.4	64
34	Berry phase and pseudospin winding number in bilayer graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	64
33	Direct measurement of quantum phases in graphene via photoemission spectroscopy. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	64
32	Antiferromagnetic ordering in van der Waals 2D magnetic material MnPS <sub>3</sub> probed by Raman spectroscopy. <i>2D Materials</i> , <b>2019</b> , 6, 041001	5.9	56

31	Electromagnetic Saturation of Angstrom-Sized Quantum Barriers at Terahertz Frequencies. <i>Physical Review Letters</i> , <b>2015</b> , 115, 125501	7.4	49
30	Van Hove singularity and apparent anisotropy in the electron-phonon interaction in graphene. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	46
29	Donor and acceptor levels of organic photovoltaic compounds from first principles. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 685-95	3.6	33
28	Ab initio calculations of pressure-induced structural phase transitions of GeTe. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	24
27	Breakdown of the Chiral Anomaly in Weyl Semimetals in a Strong Magnetic Field. <i>Physical Review Letters</i> , <b>2017</b> , 119, 266401	7.4	23
26	Variational minimization of orbital-density-dependent functionals. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	22
25	New Dirac fermions in periodically modulated bilayer graphene. <i>Nano Letters</i> , <b>2011</b> , 11, 2596-600	11.5	21
24	Electron supercollimation in graphene and Dirac fermion materials using one-dimensional disorder potentials. <i>Physical Review Letters</i> , <b>2014</b> , 113, 026802	7.4	20
23	Hidden orbital polarization in diamond, silicon, germanium, gallium arsenide and layered materials. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e382-e382	10.3	17
22	Theory of the electronic and transport properties of graphene under a periodic electric or magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2011</b> , 43, 651-656	3	16
21	Computation of intrinsic spin Hall conductivities from first principles using maximally localized Wannier functions. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	14
20	Insights and challenges of applying the GW method to transition metal oxides. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 475501	1.8	14
19	Tunnelling current-voltage characteristics of Angstrom gaps measured with terahertz time-domain spectroscopy. <i>Scientific Reports</i> , <b>2016</b> , 6, 29103	4.9	14
18	Phonon-induced renormalization of electron wave functions. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	13
17	Electronic structure of charged bilayer and trilayer phosphorene. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	13
16	Terahertz rectification in ring-shaped quantum barriers. <i>Nature Communications</i> , <b>2018</b> , 9, 4914	17.4	12
15	Spin-conserving and reversing photoemission from the surface states of Bi <sub>2</sub> Se <sub>3</sub> and Au (111). <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	11
14	Symmetry rules shaping spin-orbital textures in surface states. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	8

13	Magnetic Anisotropy and Magnetic Ordering of Transition-Metal Phosphorus Trisulfides. <i>Nano Letters</i> , <b>2021</b> , 21, 10114-10121	11.5	7
12	Reliable methods for seamless stitching of tight-binding models based on maximally localized Wannier functions. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	5
11	Optical responses of a metal with sub-nm gaps. <i>Scientific Reports</i> , <b>2016</b> , 6, 22981	4.9	5
10	Inelastic carrier lifetime in bilayer graphene. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 032106	3.4	4
9	Momentum-dependent spin selection rule in photoemission with glide symmetry. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	4
8	Effects of spin-orbit coupling on the optical response of a material. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	4
7	The electronic structure and intervalley coupling of artificial and genuine graphene superlattices. <i>Nano Research</i> , <b>2016</b> , 9, 1101-1115	10	3
6	Optical spectroscopy of bilayer graphene. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 2931-2934	1.3	3
5	Kagome van-der-Waals PdPS with flat band. <i>Scientific Reports</i> , <b>2020</b> , 10, 20998	4.9	3
4	Wannier Function Perturbation Theory: Localized Representation and Interpolation of Wave Function Perturbation. <i>Physical Review X</i> , <b>2021</b> , 11,	9.1	2
3	Gaussian time-dependent variational principle for the finite-temperature anharmonic lattice dynamics. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	1
2	Terahertz funneling-induced quantum tunneling at angstrom scale <b>2016</b> ,		1
1	General, Strong Impurity-Strength Dependence of Quasiparticle Interference. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 7488-7494	3.8	