

# Yongkyung Kwon

## List of Publications by Citations

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60  
papers

2,169  
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24  
h-index

46  
g-index

62  
ext. papers

2,323  
ext. citations

3.4  
avg, IF

4.77  
L-index

#	Paper	IF	Citations
60	Quantum solvation and molecular rotations in superfluid helium clusters. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 6469-6501	3.9	215
59	Effects of backflow correlation in the three-dimensional electron gas: Quantum Monte Carlo study. <i>Physical Review B</i> , <b>1998</b> , 58, 6800-6806	3.3	166
58	Multilayer Graphynes for Lithium Ion Battery Anode. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 6919-6923	3.8	153
57	Thermodynamically Stable Calcium-Decorated Graphyne as a Hydrogen Storage Medium. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 20220-20224	3.8	127
56	Cohesion energetics of carbon allotropes: quantum Monte Carlo study. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 114702	3.9	125
55	Effects of three-body and backflow correlations in the two-dimensional electron gas. <i>Physical Review B</i> , <b>1993</b> , 48, 12037-12046	3.3	125
54	Atomic-Scale Quantum Solvation Structure in Superfluid Helium-4 Clusters. <i>Physical Review Letters</i> , <b>1999</b> , 83, 4108-4111	7.4	107
53	Quantum Monte Carlo calculation of the Fermi-liquid parameters in the two-dimensional electron gas. <i>Physical Review B</i> , <b>1994</b> , 50, 1684-1694	3.3	107
52	Nanoscale molecular superfluidity of hydrogen. <i>Physical Review Letters</i> , <b>2002</b> , 89, 273401	7.4	96
51	Path integral Monte Carlo study of SF6-doped helium clusters. <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 2341-2348	3.9	84
50	Graphdiyne as a high-capacity lithium ion battery anode material. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 263904	3.4	80
49	Onset of superfluidity in small CO <sub>2</sub> (4He) <sub>N</sub> clusters. <i>Physical Review Letters</i> , <b>2005</b> , 94, 153401	7.4	67
48	Path integral methods for rotating molecules in superfluids. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 114301	3.9	66
47	OCS in para-hydrogen clusters: rotational dynamics and superfluidity. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 181106	3.9	53
46	Localization of helium at an aromatic molecule in superfluid helium clusters. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 3163-3169	3.9	50
45	Roton-rotation coupling of acetylene in 4He. <i>Physical Review Letters</i> , <b>2004</b> , 93, 250401	7.4	47
44	Superfluid solvation structure of OCS in helium clusters. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 10146	3.9	45

43	Local superfluidity in inhomogeneous quantum fluids. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	44
42	Widely tunable band gaps of graphdiyne: an ab initio study. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 8935-9	3.6	41
41	<sup>4</sup> He adsorption on a single graphene sheet: Path-integral Monte Carlo study. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	36
40	Exotic Geometrical and Electronic Properties in Hydrogenated Graphyne. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 11960-11967	3.8	36
39	Transient-estimate Monte Carlo in the two-dimensional electron gas. <i>Physical Review B</i> , <b>1996</b> , 53, 7376-7382	3.3	31
38	Commensurate-incommensurate transition of <sup>4</sup> He adsorbed on a single C <sub>60</sub> molecule. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 064514	3.9	28
37	Tailoring the Electronic Band Gap of Graphyne. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 2463-2468	3.8	27
36	Nature of Interlayer Binding and Stacking of sp-sp Hybridized Carbon Layers: A Quantum Monte Carlo Study. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 5639-5646	6.4	19
35	Superfluidity and structural order in H <sup>4</sup> He adsorbed on a C <sub>20</sub> molecule: Path-integral Monte Carlo calculations. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	19
34	Phase stability and interlayer interaction of blue phosphorene. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	15
33	Microscopic two-fluid theory of rotational constants of the OCS-H <sub>2</sub> complex in <sup>4</sup> He droplets. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 1986-1995	3.9	14
32	High-throughput screening of metal-porphyrin-like graphenes for selective capture of carbon dioxide. <i>Scientific Reports</i> , <b>2016</b> , 6, 21788	4.9	13
31	Nanoscale Quantum Solvation of para-H <sub>2</sub> Around the Linear OCS Molecule Inside <sup>4</sup> He Droplets. <i>Journal of Low Temperature Physics</i> , <b>2004</b> , 134, 269-274	1.3	11
30	Prediction of stable C <sub>7</sub> /12 and metastable C <sub>4</sub> /7 commensurate solid phases for He <sub>4</sub> on graphite. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	10
29	Quasiparticle bands in a two-dimensional crystal found by GW and quantum Monte Carlo calculations. <i>Physical Review B</i> , <b>1995</b> , 51, 13538-13546	3.3	10
28	Mott-insulator to commensurate-solid transition in a <sup>4</sup> He layer on graphyne. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	8
27	Anisotropic and inhomogeneous superfluidity in OCS-doped helium clusters. <i>Journal of Physics and Chemistry of Solids</i> , <b>2005</b> , 66, 1516-1519	3.9	7
26	Local Superfluidity in <sup>4</sup> He and para-H <sub>2</sub> Clusters. <i>Journal of Low Temperature Physics</i> , <b>2005</b> , 138, 253-258	1.3	7

25	Competition between Hückel's Rule and Jahn-Teller Distortion in Small Carbon Rings: A Quantum Monte Carlo Study. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 3636-3640	2.8	7
24	Role of remote interfacial phonons in the resistivity of graphene. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 043104	3.4	6
23	Commensurate-incommensurate solid transition in the He4 monolayer on Graphyne. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	6
22	Structural and Superfluid Properties of the 4He Monolayer on a C28 Molecule. <i>Journal of Low Temperature Physics</i> , <b>2013</b> , 171, 599-605	1.3	6
21	THE FINITE-TEMPERATURE PATH INTEGRAL MONTE CARLO METHOD AND ITS APPLICATION TO SUPERFLUID HELIUM CLUSTERS. <i>Series on Advances in Quantum Many-body Theory</i> , <b>2002</b> , 91-128		6
20	Control of CO Capture Process on Transition-Metal-Porphyrin-like Graphene with Mechanical Strain. <i>ACS Omega</i> , <b>2018</b> , 3, 10554-10563	3.9	6
19	4He adsorption on a H(2)-plated C20 molecular surface: the formation of helium buckyballs. <i>Physical Review E</i> , <b>2014</b> , 89, 042118	2.4	5
18	Interlayer exchange coupling and local superfluidity in (4He) N around C20. <i>Journal of the Korean Physical Society</i> , <b>2012</b> , 60, 14-18	0.6	5
17	Superfluidity in Hydrogen-Deuterium Mixed Clusters. <i>Journal of Low Temperature Physics</i> , <b>2010</b> , 158, 281-287	1.3	5
16	Magic Number Stabilities of Small para-H2 Clusters Doped by a Single ortho-D2. <i>Journal of Low Temperature Physics</i> , <b>2008</b> , 150, 358-363	1.3	5
15	Anisotropic superfluidity of (4)He on a C36 fullerene molecule. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 104311	3.9	4
14	Reentrant Behavior in Orientational Ordering of Asymmetric Quadrupolar Quantum Rotors. <i>Journal of the Korean Physical Society</i> , <b>2009</b> , 54, 1582-1588	0.6	4
13	Path integral Monte Carlo simulation of global and local superfluidity in liquid He4 reservoirs separated by nanoscale apertures. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	3
12	Semiclassical approximation solved by Monte Carlo integration as an efficient impurity solver for dynamical mean field theory and its cluster extensions. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	3
11	Superfluidity in D2(H2)N Clusters. <i>Journal of the Korean Physical Society</i> , <b>2008</b> , 52, 259-263	0.6	3
10	DFT and TB study of the geometry of hydrogen adsorbed on graphynes. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 385301	1.8	2
9	Energetic Stability of Free-standing and Metal-Supported Borophenes: Quantum Monte Carlo and Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 24420-24428	3.8	2
8	Large Temperature-Independent Magnetoresistance without Gating Operation in Monolayer Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 53134-53140	9.5	1

7	Adsorption of a single Pt atom on graphene: spin crossing between physisorbed triplet and chemisorbed singlet states. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 22147-22154	3.6	1
6	Metastable Metallic Phase of a Bilayer Blue Phosphorene Induced by Interlayer Bonding and Intralayer Charge Redistributions. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10981-10986	6.4	0
5	4He adsorption on a single C40 molecule: Path integral Monte Carlo study. <i>Journal of the Korean Physical Society</i> , <b>2018</b> , 72, 95-100	0.6	
4	GasSolid Transition of Quantum Particles Interacting with Inverse-Power-Law Repulsive Potential. <i>Journal of the Physical Society of Japan</i> , <b>2014</b> , 83, 043602	1.5	
3	Van der Waals correlation between two 4He monolayers on the opposite sides of graphene. <i>Journal of the Korean Physical Society</i> , <b>2015</b> , 66, 1856-1861	0.6	
2	Path-integral Monte Carlo study of asymmetric quantum quadrupolar rotors with fourth-order propagators. <i>Journal of the Korean Physical Society</i> , <b>2012</b> , 61, 513-517	0.6	
1	Orientational Ordering of Electric Quadrupoles in FCC Lattices. <i>Journal of Low Temperature Physics</i> , <b>2008</b> , 150, 311-316	1.3	