

Yongkyung Kwon

List of Publications by Year in descending order

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62
papers

2,521
citations

218381

26
h-index

189595

50
g-index

62
all docs

62
docs citations

62
times ranked

1659
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum solvation and molecular rotations in superfluid helium clusters. <i>Journal of Chemical Physics</i> , 2000, 113, 6469-6501.	1.2	233
2	Effects of backflow correlation in the three-dimensional electron gas: Quantum Monte Carlo study. <i>Physical Review B</i> , 1998, 58, 6800-6806.	1.1	206
3	Multilayer Graphynes for Lithium Ion Battery Anode. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6919-6923.	1.5	189
4	Cohesion energetics of carbon allotropes: Quantum Monte Carlo study. <i>Journal of Chemical Physics</i> , 2014, 140, 114702.	1.2	166
5	Thermodynamically Stable Calcium-Decorated Graphyne as a Hydrogen Storage Medium. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20220-20224.	1.5	147
6	Effects of three-body and backflow correlations in the two-dimensional electron gas. <i>Physical Review B</i> , 1993, 48, 12037-12046.	1.1	137
7	Quantum Monte Carlo calculation of the Fermi-liquid parameters in the two-dimensional electron gas. <i>Physical Review B</i> , 1994, 50, 1684-1694.	1.1	116
8	Atomic-Scale Quantum Solvation Structure in Superfluid Helium-4 Clusters. <i>Physical Review Letters</i> , 1999, 83, 4108-4111.	2.9	116
9	Graphdiyne as a high-capacity lithium ion battery anode material. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	104
10	Nanoscale Molecular Superfluidity of Hydrogen. <i>Physical Review Letters</i> , 2002, 89, 273401.	2.9	101
11	Path integral Monte Carlo study of SF ₆ -doped helium clusters. <i>Journal of Chemical Physics</i> , 1996, 104, 2341-2348.	1.2	89
12	Onset of Superfluidity in Small CO ₂ (He ₄) _N Clusters. <i>Physical Review Letters</i> , 2005, 94, 153401.	2.9	73
13	Path integral methods for rotating molecules in superfluids. <i>Journal of Chemical Physics</i> , 2005, 123, 114301.	1.2	73
14	Widely tunable band gaps of graphdiyne: an ab initio study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8935-8939.	1.3	56
15	Localization of helium at an aromatic molecule in superfluid helium clusters. <i>Journal of Chemical Physics</i> , 2001, 114, 3163-3169.	1.2	55
16	OCS in para-hydrogen clusters: Rotational dynamics and superfluidity. <i>Journal of Chemical Physics</i> , 2005, 122, 181106.	1.2	55
17	Roton-Rotation Coupling of Acetylene in H ₄ e. <i>Physical Review Letters</i> , 2004, 93, 250401.	2.9	54
18	Local superfluidity in inhomogeneous quantum fluids. <i>Physical Review B</i> , 2006, 74, .	1.1	50

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19	Superfluid solvation structure of OCS in helium clusters. Journal of Chemical Physics, 2001, 115, 10146.	1.2	47
20	$\langle \text{He} \rangle_{\text{adsorption on a single graphene sheet: Path-integral Monte Carlo study. Physical Review B, 2012, 85, .}$	1.1	42
21	Exotic Geometrical and Electronic Properties in Hydrogenated Graphyne. Journal of Physical Chemistry C, 2013, 117, 11960-11967.	1.5	41
22	Tailoring the Electronic Band Gap of Graphyne. Journal of Physical Chemistry C, 2014, 118, 2463-2468.	1.5	34
23	Transient-estimate Monte Carlo in the two-dimensional electron gas. Physical Review B, 1996, 53, 7376-7382.	1.1	33
24	High-throughput screening of metal-porphyrin-like graphenes for selective capture of carbon dioxide. Scientific Reports, 2016, 6, 21788.	1.6	31
25	Commensurate-incommensurate transition of 4He adsorbed on a single C60 molecule. Journal of Chemical Physics, 2012, 136, 064514.	1.2	30
26	Nature of Interlayer Binding and Stacking of sp^2 Hybridized Carbon Layers: A Quantum Monte Carlo Study. Journal of Chemical Theory and Computation, 2017, 13, 5639-5646.	2.3	27
27	Superfluidity and structural order in H_4 adsorbed on a C_{20} molecule: Path-integral Monte Carlo calculations. Physical Review B, 2010, 82, .	1.1	20
28	Phase stability and interlayer interaction of blue phosphorene. Physical Review B, 2018, 98, .	1.1	19
29	Microscopic two-fluid theory of rotational constants of the OCS- H_2 complex in 4He droplets. Journal of Chemical Physics, 2003, 119, 1986-1995.	1.2	15
30	Prediction of stable C_{12} metastable C_7 solid phases for C_4	1.1	14
31	Competition between Hückel's Rule and Jahn-Teller Distortion in Small Carbon Rings: A Quantum Monte Carlo Study. Journal of Physical Chemistry A, 2020, 124, 3636-3640.	1.1	13
32	Nanoscale Quantum Solvation of para- H_2 Around the Linear OCS Molecule Inside 4He Droplets. Journal of Low Temperature Physics, 2004, 134, 269-274.	0.6	11
33	Quasiparticle bands in a two-dimensional crystal found by GW and quantum Monte Carlo calculations. Physical Review B, 1995, 51, 13538-13546.	1.1	10
34	Mott-insulator to commensurate-solid transition in a He_4 layer on C_{12}	1.1	8
35	Graphyne monolayer on C_4	1.1	8
36	Role of remote interfacial phonons in the resistivity of graphene. Applied Physics Letters, 2019, 115, .	1.5	8

#	ARTICLE	IF	CITATIONS
37	Anisotropic and inhomogeneous superfluidity in OCS-doped helium clusters. Journal of Physics and Chemistry of Solids, 2005, 66, 1516-1519.	1.9	7
38	Local Superfluidity in 4He and para-H ₂ Clusters. Journal of Low Temperature Physics, 2005, 138, 253-258.	0.6	7
39	Control of CO ₂ Capture Process on Transition-Metal-Porphyrin-like Graphene with Mechanical Strain. ACS Omega, 2018, 3, 10554-10563.	1.6	7
40	Structural and Superfluid Properties of the 4He Monolayer on a C ₂₈ Molecule. Journal of Low Temperature Physics, 2013, 171, 599-605.	0.6	6
41	THE FINITE-TEMPERATURE PATH INTEGRAL MONTE CARLO METHOD AND ITS APPLICATION TO SUPERFLUID HELIUM CLUSTERS. Series on Advances in Quantum Many-body Theory, 2002, , 91-128.	0.2	6
42	Magic Number Stabilities of Small para-H ₂ Clusters Doped by a Single ortho-D ₂ . Journal of Low Temperature Physics, 2008, 150, 358-363.	0.6	5
43	Superfluidity in Hydrogen-Deuterium Mixed Clusters. Journal of Low Temperature Physics, 2010, 158, 281-287.	0.6	5
44	Interlayer exchange coupling and local superfluidity in (4He) N around C ₂₀ . Journal of the Korean Physical Society, 2012, 60, 14-18.	0.3	5
45	He ₄ adsorption on aH ₂ -platedC ₂₀ molecular surface: The formation of helium buckyballs. Physical Review E, 2014, 89, 042118.	0.8	5
46	Anisotropic superfluidity of 4He on a C ₃₆ fullerene molecule. Journal of Chemical Physics, 2015, 143, 104311.	1.2	5
47	Energetic Stability of Free-standing and Metal-Supported Borophenes: Quantum Monte Carlo and Density Functional Theory Calculations. Journal of Physical Chemistry C, 2020, 124, 24420-24428.	1.5	5
48	Semiclassical approximation solved by Monte Carlo integration as an efficient impurity solver for dynamical mean field theory and its cluster extensions. Physical Review B, 2013, 88, .	1.1	4
49	Path integral Monte Carlo simulation of global and local superfluidity in liquid ^4He reservoirs separated by nanoscale apertures. Physical Review B, 2016, 94, .	1.1	4
50	Reentrant Behavior in Orientational Ordering of Asymmetric Quadrupolar Quantum Rotors. Journal of the Korean Physical Society, 2009, 54, 1582-1588.	0.3	4
51	Metastable Metallic Phase of a Bilayer Blue Phosphorene Induced by Interlayer Bonding and Intralayer Charge Redistributions. Journal of Physical Chemistry Letters, 2021, 12, 10981-10986.	2.1	4
52	Adsorption of a single Pt atom on graphene: spin crossing between physisorbed triplet and chemisorbed singlet states. Physical Chemistry Chemical Physics, 2021, 23, 22147-22154.	1.3	3
53	Superfluidity in D ₂ (H ₂)N Clusters. Journal of the Korean Physical Society, 2008, 52, 259-263.	0.3	3
54	DFT and TB study of the geometry of hydrogen adsorbed on graphynes. Journal of Physics Condensed Matter, 2014, 26, 385301.	0.7	2

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55	Two-dimensional superfluidity in ^4He clusters intercalated into graphite. <i>Physical Review B</i> , 2020, 102, .	1.1	2
56	Large Temperature-Independent Magnetoresistance without Gating Operation in Monolayer Graphene. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53134-53140.	4.0	1
57	Orientalional Ordering of Electric Quadrupoles in FCC Lattices. <i>Journal of Low Temperature Physics</i> , 2008, 150, 311-316.	0.6	0
58	Superfluidity of Small Hydrogen Clusters (abstract). , 2009, , .		0
59	Path-integral Monte Carlo study of asymmetric quantum quadrupolar rotors with fourth-order propagators. <i>Journal of the Korean Physical Society</i> , 2012, 61, 513-517.	0.3	0
60	Gas-Solid Transition of Quantum Particles Interacting with Inverse-Power-Law Repulsive Potential. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 043602.	0.7	0
61	Van der Waals correlation between two ^4He monolayers on the opposite sides of graphene. <i>Journal of the Korean Physical Society</i> , 2015, 66, 1856-1861.	0.3	0
62	^4He adsorption on a single C_{40} molecule: Path integral Monte Carlo study. <i>Journal of the Korean Physical Society</i> , 2018, 72, 95-100.	0.3	0