Seung-Hoon Jhi

List of Publications by Year
in descending order

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74	4,424	172457	102487
papers	citations	29 h-index	66 g-index

74	74	74	6035
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kohn anomalies in topological insulator thin films: first-principles study. Journal of Physics Condensed Matter, 2022, , .	1.8	2
2	Lattice dynamical properties of antiferromagnetic oxides calculated using self-consistent extended Hubbard functional method. Journal of Physics Condensed Matter, 2022, , .	1.8	2
3	Coexistence of spontaneous polarization and superconductivity in hole-doped oxyhydrides ATiO2H () Tj ETQq1 1 0.784314 rgBT /Ove	2.4	2
4	Ab initio study of lattice dynamics of group IV semiconductors using pseudohybrid functionals for extended Hubbard interactions. Physical Review B, 2021, 104, .	3.2	9
5	Effect of vacancy disorder in phase-change materials. Journal of Physics Condensed Matter, 2020, 32, 175401.	1.8	1
6	Efficient Training of Machine Learning Potentials by a Randomized Atomic-System Generator. Journal of Physical Chemistry B, 2020, 124, 8704-8710.	2.6	4
7	Origin of robust out-of-plane ferroelectricity in d1T-MoS₂ monolayer. Journal of Physics Condensed Matter, 2020, 32, 045702.	1.8	17
8	Origin of distorted 1T-phase ReS2: first-principles study. Journal of Physics Condensed Matter, 2018, 30, 105403.	1.8	10
9	First-principles study of lithium-ion diffusion in Î² -Li 3 PS 4 for solid-state electrolytes. Current Applied Physics, 2018, 18, 541-545.	2.4	18
10	Phonon Instability and Broken Long-Ranged <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math> Bond in Ge-Sb-Te Phase-Change Materials from First Principles. Physical Review Applied, 2018, 9, .	3.8	6
11	Pair potential modeling of atomic rearrangement in GeTe-Sb2Te3 superlattice via first-principles calculations. Journal of Applied Physics, 2017, 121, .	2.5	8
12	Nanostructured topological state in bismuth nanotube arrays: inverting bondingâ€“antibonding levels of molecular orbitals. Nanoscale, 2017, 9, 16638-16644.	5.6	6
13	Stabilization of 1Tâ€² phase WTe2 by scalar relativistic effect. Applied Physics Letters, 2017, 110, 263104.	3.3	7
14	Weyl node assisted conductivity switch in interfacial phase-change memory with van der Waals interfaces. Physical Review B, 2017, 96, .	3.2	16
15	Ordering mechanism and quantum anomalous Hall effect of magnetically doped topological insulators. Physical Review B, 2017, 96, .	3.2	26
16	Quantum Electronic Transport of Topological Surface States in Î²-Ag₂Se Nanowire. ACS Nano, 2016, 10, 3936-3943.	14.6	24
17	Engineering Topological Surface States of Cr-Doped Bi₂Se₃ Films by Spin Reorientation and Electric Field. Nano Letters, 2016, 16, 6656-6660.	9.1	10
18	Topological phase transition and quantum spin Hall edge states of antimony few layers. Scientific Reports, 2016, 6, 33193.	3.3	38

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19	Valley-symmetry-preserved transport in ballistic graphene with gate-defined carrierÂguiding. Nature Physics, 2016, 12, 1022-1026.	16.7	56
20	Band structure engineering of topological insulator heterojunctions. Physical Review B, 2016, 93, .	3.2	30
21	Topological fate of edge states of single Bi bilayer on Bi(111). Physical Review B, 2016, 93, .	3.2	26
22	Spin rectification by orbital polarization in Bi-bilayer nanoribbons. Physical Chemistry Chemical Physics, 2016, 18, 8637-8642.	2.8	13
23	Band modification of graphene by using slow Cs⁺ ions. RSC Advances, 2016, 6, 9106-9111.	3.6	5
24	Magnetic phase transition in Fe-doped topological insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physi	3.2	25
25	Topological phase transitions in group IV-VI semiconductors by phonons. Physical Review B, 2015, 92, .	3.2	18
26	Quantum Oscillation Signatures of Pressure-induced Topological Phase Transition in BiTeI. Scientific Reports, 2015, 5, 15973.	3.3	25
27	A first-principles study of CO dissociative adsorption on iron nanoparticles supported on doped graphene. Solid State Communications, 2015, 223, 50-53.	1.9	6
28	Proximity Effect Induced Electronic Properties of Graphene on Bi₂Te₂Se. ACS Nano, 2015, 9, 10861-10866.	14.6	36
29	Ultimately short ballistic vertical graphene Josephson junctions. Nature Communications, 2015, 6, 6181.	12.8	94
30	Quantum anomalous Hall and quantum spin-Hall phases in flattened Bi and Sb bilayers. Scientific Reports, 2015, 5, 8426.	3.3	66
31	Disorder-induced structural transitions in topological insulating Ge-Sb-Te compounds. Journal of Applied Physics, 2015, 117, 195701.	2.5	7
32	A first-principles study of alkali-metal-decorated graphyne as oxygen-tolerant hydrogen storage media. Carbon, 2015, 81, 418-425.	10.3	29
33	Transforming a surface state of a topological insulator by a Bi capping layer. Physical Review B, 2014, 90, .	3.2	9
34	Edge and interfacial states in a two-dimensional topological insulator: Bi(111) bilayer on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:m Physical Review B, 2014, 89, .	3.2	78
35	Anomalous Optical Phonon Splittings in Sliding Bilayer Graphene. ACS Nano, 2013, 7, 7151-7156.	14.6	12
36	Proximity-induced giant spin-orbit interaction in epitaxial graphene on a topological insulator. Physical Review B, 2013, 87, .	3.2	94

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37	Topological Phase Transition in the Interaction of Surface Dirac Fermions in Heterostructures. Physical Review Letters, 2012, 109, 146601.	7.8	29
38	Emerging topological insulating phase in Geï£¿Sbï£¿Te compounds. Physica Status Solidi (B): Basic Research, 2012, 249, 1874-1879.	1.5	11
39	Effect of atomic impurities on the helical surface states of the topological insulator Bi₂Te₃. Journal of Physics Condensed Matter, 2012, 24, 175001.	1.8	17
40	Color of TiN and ZrN from first-principles calculations. Journal of Applied Physics, 2011, 110, .	2.5	28
41	Carbon Monoxide-Tolerant Platinum Nanoparticle Catalysts on Defect-Engineered Graphene. ACS Nano, 2011, 5, 805-810.	14.6	127
42	Metal-dispersed porous graphene for hydrogen storage. Applied Physics Letters, 2011, 98, .	3.3	105
43	Developing high-capacity hydrogen storage materials via quantum simulations. MRS Bulletin, 2011, 36, 198-204.	3.5	15
44	Electronic topological transition in sliding bilayer graphene. Physical Review B, 2011, 84, .	3.2	62
45	Probing nanoscale conductance of monolayer graphene under pressure. Applied Physics Letters, 2011, 99, 013110.	3.3	35
46	Controlling the self-doping of epitaxial graphene on SiC via Ar ion treatment. Physical Review B, 2011, 84, .	3.2	23
47	Prediction of topological insulating behavior in crystalline Ge-Sb-Te. Physical Review B, 2010, 82, .	3.2	75
48	Ab initiocalculations of pressure-induced structural phase transitions of GeTe. Physical Review B, 2010, 82, .	3.2	27
49	Effects of strain on electronic properties of graphene. Physical Review B, 2010, 81, .	3.2	555
50	Spin-polarized energy-gap opening in asymmetric bilayer graphene nanoribbons. Applied Physics Letters, 2010, 97, .	3.3	12
51	Divacancy-nitrogen-assisted transition metal dispersion and hydrogen adsorption in defective graphene: A first-principles study. Physical Review B, 2010, 81, .	3.2	90
52	Crossover in the adsorption properties of alkali metals on graphene. Physical Review B, 2010, 82, .	3.2	86
53	Controlling Energy Gap of Bilayer Graphene by Strain. Nano Letters, 2010, 10, 3486-3489.	9.1	173
54	Stability of graphene band structures against an external periodic perturbation: Na on graphene. Physical Review B, 2009, 79, .	3.2	25

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55	Effect of vacancy defects in graphene on metal anchoring and hydrogen adsorption. Applied Physics Letters, 2009, 94, .	3.3	111
56	Crossover between multipole Coulomb and Kubas interactions in hydrogen adsorption on metal-graphene complexes. Physical Review B, 2009, 79, .	3.2	92
57	Electronic property of Na-doped epitaxial graphenes on SiC. Applied Physics Letters, 2009, 94, .	3.3	19
58	Dispersion of transition metal atoms in fragmented graphitic shells and hydrogen adsorption therein. Journal of Physics and Chemistry of Solids, 2008, 69, 1185-1187.	4.0	0
59	Self-Assembled Metal Atom Chains on Graphene Nanoribbons. Physical Review Letters, 2008, 101, 266105.	7.8	78
60	Optimization of metal dispersion in doped graphitic materials for hydrogen storage. Physical Review B, 2008, 78, .	3.2	111
61	Ab initiostudies of structural and electronic properties of the crystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ge</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m Physical Review B, 2008, 77, .	3.2	30
62	Computational Study of Hydrogen Storage Characteristics of Covalent-Bonded Graphenes. Journal of the American Chemical Society, 2007, 129, 8999-9003.	13.7	161
63	An ab initio study of the electronic properties of carbon nanotubes activated by hydrogen-passivated vacancies. Carbon, 2007, 45, 2031-2036.	10.3	5
64	A theoretical study of activated nanostructured materials for hydrogen storage. Catalysis Today, 2007, 120, 383-388.	4.4	12
65	Activated boron nitride nanotubes: A potential material for room-temperature hydrogen storage. Physical Review B, 2006, 74, .	3.2	59
66	A theoretical study of nanoporous organic molecules for hydrogen storage. Microporous and Mesoporous Materials, 2006, 89, 138-142.	4.4	13
67	Glassy materials as a hydrogen storage medium: Density functional calculations. Physical Review B, 2005, 71, .	3.2	11
68	Reentrant Semiconducting Behavior of Zigzag Carbon Nanotubes at Substitutional Doping by Oxygen Dimers. Physical Review Letters, 2005, 95, 226403.	7.8	13
69	Hydrogen storage by physisorption: beyond carbon. Solid State Communications, 2004, 129, 769-773.	1.9	86
70	Hydrogen adsorption on boron nitride nanotubes: A path to room-temperature hydrogen storage. Physical Review B, 2004, 69, .	3.2	243
71	Vacancy Hardening and Softening in Transition Metal Carbides and Nitrides. Physical Review Letters, 2001, 86, 3348-3351.	7.8	284
72	Structural forms of cubicBC2N. Physical Review B, 2001, 64, .	3.2	159

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73	Electronic Properties of Oxidized Carbon Nanotubes. Physical Review Letters, 2000, 85, 1710-1713.	7.8	385
74	Is the Intrinsic Thermoelectric Power of Carbon Nanotubes Positive?. Physical Review Letters, 2000, 85, 4361-4364.	7.8	222