

In-Ho Lee

List of Publications by Year in descending order

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docs citations

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times ranked

1883
citing authors

#	ARTICLE	IF	CITATIONS
1	CRFalign: A Sequence-Structure Alignment of Proteins Based on a Combination of HMM-HMM Comparison and Conditional Random Fields. <i>Molecules</i> , 2022, 27, 3711.	1.7	2
2	Crystal structure prediction in a continuous representative space. <i>Computational Materials Science</i> , 2021, 194, 110436.	1.4	11
3	Design of Single-Layer Metasurface Filter by Conformational Space Annealing Algorithm for 5G mm-Wave Communications. <i>IEEE Access</i> , 2021, 9, 29764-29774.	2.6	20
4	Design of dual-band single-layer metasurfaces for millimeter-wave 5G communication systems. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	7
5	Ab initio prediction of nontrivial topological band and superconductivity in stable metallic Si allotropes at ambient pressure. <i>Physical Review Materials</i> , 2021, 5, .	0.9	0
6	Topological Invariant Prediction via Deep Learning. <i>Journal of the Korean Physical Society</i> , 2020, 76, 401-405.	0.3	3
7	Finding Multiple Reaction Pathways via Global Optimization of Action. <i>Biophysical Journal</i> , 2019, 116, 303a.	0.2	0
8	Quantum transport properties of single-crystalline Ag ₂ Se _{0.5} Te _{0.5} nanowires as a new topological material. <i>Nanoscale</i> , 2019, 11, 5171-5179.	2.8	6
9	Self-Encapsulation of Silicene in Cubic Diamond Si: Topological Semimetal in Covalent Bonding Networks. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1839-1845.	1.5	4
10	Superconducting Open-Framework Allotrope of Silicon at Ambient Pressure. <i>Physical Review Letters</i> , 2018, 120, 157001.	2.9	39
11	Protein structure modeling and refinement by global optimization in CASP12. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 122-135.	1.5	19
12	Finding multiple reaction pathways via global optimization of action. <i>Nature Communications</i> , 2017, 8, 15443.	5.8	29
13	Finding Dominant Reaction Pathways via Global Optimization of Action. <i>Biophysical Journal</i> , 2017, 112, 290a.	0.2	1
14	Semimetallic carbon allotrope with a topological nodal line in mixed sp ² -sp ³ bonding networks. <i>NPG Asia Materials</i> , 2017, 9, e361-e361.	3.8	18
15	Prediction of Green Phosphorus with Tunable Direct Band Gap and High Mobility. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4627-4632.	2.1	101
16	Boron Triangular Kagome Lattice with Half-Metallic Ferromagnetism. <i>Scientific Reports</i> , 2017, 7, 7279.	1.6	14
17	Three-dimensional buckled honeycomb boron lattice with vacancies as an intermediate phase on the transition pathway from 1 [±] -B to 1 ³ -B. <i>NPG Asia Materials</i> , 2017, 9, e400-e400.	3.8	4
18	Direct band gap carbon superlattices with efficient optical transition. <i>Physical Review B</i> , 2016, 93, .	1.1	12

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19	Template based protein structure modeling by global optimization in <scp>CASP</scp>11. Proteins: Structure, Function and Bioinformatics, 2016, 84, 221-232.	1.5	28
20	Strain-tunable half-metallicity in hybrid graphene-hBN monolayer superlattices. Applied Surface Science, 2016, 375, 179-185.	3.1	6
21	Ab initio materials design using conformational space annealing and its application to searching for direct band gap silicon crystals. Computer Physics Communications, 2016, 203, 110-121.	3.0	55
22	Dipole-allowed direct band gap silicon superlattices. Scientific Reports, 2015, 5, 18086.	1.6	37
23	A Folding Pathway Model of Mini-Protein BBA5. BioMed Research International, 2015, 2015, 1-9.	0.9	0
24	Protein structure modeling for CASP10 by multiple layers of global optimization. Proteins: Structure, Function and Bioinformatics, 2014, 82, 188-195.	1.5	36
25	Potential-tunable quantum dot single-electron pump. , 2014, , .		0
26	Publisher's Note: Computational search for direct band gap silicon crystals [Phys. Rev. B90, 115209 (2014)]. Physical Review B, 2014, 90, .	1.1	2
27	Action-derived molecular dynamics simulations for the migration and coalescence of vacancies in graphene and carbon nanotubes. Journal of Physics Condensed Matter, 2014, 26, 115303.	0.7	4
28	Lattice thermal conductivity of crystalline and amorphous silicon with and without isotopic effects from the ballistic to diffusive thermal transport regime. Journal of Applied Physics, 2014, 116, .	1.1	23
29	Improvement of electron pump accuracy by a potential-shape-tunable quantum dot pump. Physical Review B, 2014, 90, .	1.1	34
30	Computational search for direct band gap silicon crystals. Physical Review B, 2014, 90, .	1.1	63
31	Electromechanical properties of alternating AlN and SiC nanoribbon sheets. Computational Materials Science, 2013, 78, 129-133.	1.4	11
32	Free-energy profile along an isomerization pathway: Conformational isomerization in alanine dipeptide. Journal of the Korean Physical Society, 2013, 62, 384-392.	0.3	1
33	Hydrophobic core of the villin headpiece protein. Journal of the Korean Physical Society, 2013, 63, 1234-1238.	0.3	1
34	Dynamic Folding Pathway Models of the Trp-Cage Protein. BioMed Research International, 2013, 2013, 1-9.	0.9	9
35	Transition Pathway and Its Free-Energy Profile: A Protocol for Protein Folding Simulations. International Journal of Molecular Sciences, 2013, 14, 16058-16075.	1.8	3
36	Folding Models of Mini-Protein FSD-1. Journal of Physical Chemistry B, 2012, 116, 6916-6922.	1.2	12

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37	Mobility of a 5 7 defect in carbon nanotubes. <i>Nanotechnology</i> , 2011, 22, 105707.	1.3	7
38	Helix Formation of the Villin Headpiece Protein Subdomain. <i>Journal of the Korean Physical Society</i> , 2011, 59, 3321-3324.	0.3	4
39	Dynamic folding pathway models of the villin headpiece subdomain (HP α 36) structure. <i>Journal of Computational Chemistry</i> , 2010, 31, 57-65.	1.5	22
40	Uncertainty estimation of nanoparticle size distribution from a finite number of data obtained by microscopic analysis. <i>Metrologia</i> , 2009, 46, 480-488.	0.6	29
41	Reconstruction and alignment of vacancies in carbon nanotubes. <i>Physical Review B</i> , 2009, 79, .	1.1	16
42	Searching Protein Folding Pathways by Optimization of Actions. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009, 6, 2388-2392.	0.4	5
43	Optimum action method for the study of barrier-crossing events. <i>Journal of the Korean Physical Society</i> , 2009, 55, 2209-2217.	0.3	1
44	Dynamics of the Neuropeptide Met-Enkephalin by Using Action-Derived Molecular Dynamics. <i>Journal of the Korean Physical Society</i> , 2008, 53, 1764-1769.	0.3	4
45	Transition-pathway models of atomic diffusion on fcc metal surfaces. II. Stepped surfaces. <i>Physical Review B</i> , 2007, 76, .	1.1	39
46	Transition-pathway models of atomic diffusion on fcc metal surfaces. I. Flat surfaces. <i>Physical Review B</i> , 2007, 76, .	1.1	48
47	Action-Based Pathway Modeling for Atomic Surface Diffusion. <i>International Journal for Multiscale Computational Engineering</i> , 2007, 5, 273-286.	0.8	1
48	Coalescence and T-junction formation of carbon nanotubes: Action-derived molecular dynamics simulations. <i>Physical Review B</i> , 2006, 74, .	1.1	8
49	Adatom-assisted structural transformations of fullerenes. <i>Applied Physics Letters</i> , 2006, 88, 011913.	1.5	26
50	Cooperative atomic motions and core rearrangement in dislocation cross slip. <i>Applied Physics Letters</i> , 2006, 88, 201908.	1.5	11
51	Dynamic folding pathway models of $\hat{1}\pm$ -helix and $\hat{1}^2$ -hairpin structures. <i>Chemical Physics Letters</i> , 2005, 412, 307-312.	1.2	25
52	Dynamic pathway model for the formation of C60. <i>Journal of Chemical Physics</i> , 2004, 120, 4672-4676.	1.2	12
53	An introductory overview of action-derived molecular dynamics for multiple time-scale simulations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 1633-1644.	3.4	12
54	Kinetic energy control in action-derived molecular dynamics simulations. <i>Physical Review B</i> , 2003, 68, .	1.1	22

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55	Unbiased Global Optimization of Lennard-Jones Clusters for N=201 Using the Conformational Space Annealing Method. <i>Physical Review Letters</i> , 2003, 91, 080201.	2.9	115
56	Dynamics of Fullerene Coalescence. <i>Physical Review Letters</i> , 2003, 90, 065501.	2.9	59
57	Electron-electron interactions in square quantum dots. <i>Physical Review B</i> , 2001, 63, .	1.1	37
58	Electronic structure of ellipsoidally deformed quantum dots. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 1987-1993.	0.7	11
59	Object-oriented construction of a multigrid electronic-structure code with Fortran 90. <i>Computer Physics Communications</i> , 2000, 131, 10-25.	3.0	6
60	One-way multigrid method in electronic-structure calculations. <i>Physical Review B</i> , 2000, 61, 4397-4400.	1.1	32
61	Two-dimensional limit of exchange-correlation energy functional approximations. <i>Physical Review B</i> , 2000, 61, 5202-5211.	1.1	129
62	Addition Spectra of Chaotic Quantum Dots: Interplay between Interactions and Geometry. <i>Physical Review Letters</i> , 1999, 83, 4144-4147.	2.9	34
63	Molecular-dynamics study of melting on the shock Hugoniot of Al. <i>Physical Review B</i> , 1999, 59, 329-333.	1.1	27
64	Capacitive energies of quantum dots with hydrogenic impurity. <i>Physical Review B</i> , 1999, 60, 13720-13726.	1.1	15
65	First-principles study of the equilibrium structures of clusters. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 5851-5860.	0.7	5
66	Shell filling of artificial atoms within density-functional theory. <i>Physical Review B</i> , 1998, 57, 9035-9042.	1.1	91
67	Invariant-molecular-dynamics study of the diamond-to- β -Sn transition in Si under hydrostatic and uniaxial compressions. <i>Physical Review B</i> , 1997, 55, 5689-5693.	1.1	23
68	Applications of the generalized-gradient approximation to atoms, clusters, and solids. <i>Physical Review B</i> , 1997, 56, 7197-7205.	1.1	133
69	Symmetric stress tensor in the local-density-functional framework using a separable nonlocal pseudopotential. <i>Physical Review B</i> , 1995, 51, 14697-14700.	1.1	9
70	Atomic and electronic structure of amorphous Si from first-principles molecular-dynamics simulations. <i>Physical Review B</i> , 1994, 50, 18083-18089.	1.1	28
71	A tight-binding molecular dynamics study of the equilibrium structures of small Si clusters. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 741-750.	0.7	20
72	Efficient modified Jacobi relaxation for minimizing the energy functional. <i>Physical Review B</i> , 1993, 47, 15996-15999.	1.1	21

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73	Hydrogen-beryllium complexes in crystalline silicon. Physical Review B, 1992, 46, 2041-2046.	1.1	1