

Kai Ming Ho

List of Publications by Year in descending order

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227
papers

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citations

71004

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82
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all docs

240
docs citations

240
times ranked

8493
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural network potential for Zr-Rh system by machine learning. Journal of Physics Condensed Matter, 2022, 34, 075402.	0.7	6
2	Two-step nucleation of the Earth's inner core. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	14
3	Predicting magnetic anisotropy energies using site-specific spin-orbit coupling energies and machine learning: Application to iron-cobalt nitrides. Physical Review Materials, 2022, 6, .	0.9	3
4	Straintronic Effect on Phonon-Mediated Superconductivity of Nb ₂ CT ₂ (T = O,) Tj ETQq0 0 0 rgBT /Q Overlock 10	1.5	5
5	Reversible motions and disordered structure of soft particles in amorphous solids. Physical Review B, 2022, 105, .	1.1	0
6	The Gutzwiller conjugate gradient minimization method for correlated electron systems. Journal of Physics Condensed Matter, 2022, 34, 243001.	0.7	4
7	Structure and motifs of iron oxides from 1 to 3 TPa. Physical Review Materials, 2022, 6, .	0.9	1
8	Deep machine learning potential for atomistic simulation of Fe-Si-O systems under Earth's outer core conditions. Physical Review Materials, 2022, 6, .	0.9	8
9	Ground state wave functions for single-band Hubbard models from the Gutzwiller conjugate gradient minimisation theory. Molecular Physics, 2021, 119, e1797917.	0.8	5
10	An efficient random-sampling method for calculating double occupancy of Gutzwiller wave function in single-band 1D and 2D lattices. Molecular Physics, 2021, 119, e1812745.	0.8	3
11	Crystallization of the P ₃ Sn ₄ Phase upon Cooling P ₂ Sn ₅ Liquid by Molecular Dynamics Simulation Using a Machine Learning Interatomic Potential. Journal of Physical Chemistry C, 2021, 125, 3127-3133.	1.5	7
12	Localized electronic and vibrational states in amorphous diamond. Physical Chemistry Chemical Physics, 2021, 23, 4835-4840.	1.3	2
13	Lithium nickel borides: evolution of [NiB] layers driven by Li pressure. Inorganic Chemistry Frontiers, 2021, 8, 1675-1685.	3.0	7
14	Characterizations of electronic and optical properties of Sb-based phase-change material stabilized by alloying Cr. Applied Physics Letters, 2021, 118, .	1.5	7
15	Gutzwiller hybrid quantum-classical computing approach for correlated materials. Physical Review Research, 2021, 3, .	1.3	21
16	Manipulation of electronic property of epitaxial graphene on SiC substrate by Pb intercalation. Physical Review B, 2021, 103, .	1.1	11
17	Evidence for a large Rashba splitting in PtPb ₄ from angle-resolved photoemission spectroscopy. Physical Review B, 2021, 103, .	1.1	3
18	Topochemical Deintercalation of Li from Layered LiNiB: toward 2D MBene. Journal of the American Chemical Society, 2021, 143, 4213-4223.	6.6	28

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19	Unveiling the mechanism of phase and morphology selections during the devitrification of Al-Sm amorphous ribbon. <i>Physical Review Materials</i> , 2021, 5, .	0.9	3
20	Nonequilibrium phonon tuning and mapping in few-layer graphene with infrared nanoscopy. <i>Physical Review B</i> , 2021, 103, .	1.1	7
21	Ternary Zinc Antimonides Unlocked Using Hydride Synthesis. <i>Inorganic Chemistry</i> , 2021, 60, 10686-10697.	1.9	6
22	Adaptive Variational Quantum Dynamics Simulations. <i>PRX Quantum</i> , 2021, 2, .	3.5	57
23	Role of Coulomb interaction in the phase formation of fcc Ce: Correlation matrix renormalization theory. <i>Physical Review B</i> , 2021, 104, .	1.1	6
24	Structural features of chalcogenide glass SiTe: An ovonic threshold switching material. <i>APL Materials</i> , 2021, 9, .	2.2	12
25	How to Look for Compounds: Predictive Screening and in situ Studies in Na ⁺ Zn ²⁺ Bi System. <i>Chemistry - A European Journal</i> , 2021, 27, 15954-15966.	1.7	4
26	Third time's the charm: intricate non-centrosymmetric polymorphism in Ln ₃ SiP ₃ (Ln = La and Ce) induced by distortions of phosphorus square layers. <i>Dalton Transactions</i> , 2021, 50, 6463-6476.	1.6	15
27	Correlation matrix renormalization theory in multi-band lattice systems. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 095902.	0.7	3
28	Adaptive Variational Quantum Imaginary Time Evolution Approach for Ground State Preparation. <i>Advanced Quantum Technologies</i> , 2021, 4, 2100114.	1.8	32
29	Unconventional iron-magnesium compounds at terapascal pressures. <i>Physical Review B</i> , 2021, 104, .	1.1	3
30	Molecular dynamics simulation of metallic Al-Ce liquids using a neural network machine learning interatomic potential. <i>Journal of Chemical Physics</i> , 2021, 155, 194503.	1.2	9
31	Pressure-induced superconductivity in the hydrogen-rich pseudobinary CaHn compounds. <i>Physical Review B</i> , 2021, 104, .	1.1	5
32	Lithium Diffusion in Silicon Encapsulated with Graphene. <i>Nanomaterials</i> , 2021, 11, 3397.	1.9	3
33	Defect Interaction and Deformation in Graphene. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2370-2378.	1.5	6
34	Efficient Step-Merged Quantum Imaginary Time Evolution Algorithm for Quantum Chemistry. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6256-6266.	2.3	42
35	Development of interatomic potential for Al-Ce alloys using a deep neural network learning method. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18467-18479.	1.3	28
36	Spatial decomposition of magnetic anisotropy in magnets: Application to doped Fe ₁₆ N ₂ . <i>Physical Review B</i> , 2020, 102, .	1.1	8

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37	Phase Diagram and Structure Map of Binary Nanoparticle Superlattices from a Lennard-Jones Model. ACS Nano, 2020, 14, 6795-6802.	7.3	9
38	Stabilizing the crystal structures of NaFePO ₄ with Li substitutions. Physical Chemistry Chemical Physics, 2020, 22, 13975-13980.	1.3	8
39	Synergistic computational and experimental discovery of novel magnetic materials. Molecular Systems Design and Engineering, 2020, 5, 1098-1117.	1.7	13
40	Unveiling the medium-range order in glass models and its role in glass formation. Physical Review B, 2020, 101, .	1.1	5
41	Characterization of three phases of liquid carbon by tight-binding molecular dynamics simulations. Physical Chemistry Chemical Physics, 2020, 22, 14630-14636.	1.3	4
42	Theoretical search for possible LiNiB crystal structures using an adaptive genetic algorithm. Journal of Applied Physics, 2020, 127, .	1.1	8
43	First-principles calculation of excited states of diatomic molecules: a benchmark for the Gutzwiller conjugate gradient minimisation method. Molecular Physics, 2020, 118, .	0.8	6
44	Polyamorphism in K ₂ Sb ₈ Se ₁₃ for multi-level phase-change memory. Journal of Materials Chemistry C, 2020, 8, 6364-6369.	2.7	14
45	Electronic Structure of Double-Layer Epitaxial Graphene on SiC(0001) Modified by Gd Intercalation. Journal of Physical Chemistry C, 2020, 124, 28132-28138.	1.5	8
46	Cryogenic spatial-temporal imaging of surface photocarrier dynamics in MAPbI ₃ films at the single grain level. AIP Advances, 2020, 10, .	0.6	2
47	Discovering rare-earth-free magnetic materials through the development of a database. Physical Review Materials, 2020, 4, .	0.9	11
48	HOT Graphene and HOT Graphene Nanotubes: New Low Dimensional Semimetals and Semiconductors. Nanoscale Research Letters, 2020, 15, 56.	3.1	4
49	Tailored Plasmons in Pentacene/Graphene Heterostructures with Interlayer Electron Transfer. Nano Letters, 2019, 19, 6058-6064.	4.5	19
50	Computationally Driven Discovery of a Family of Layered LiNiB Polymorphs. Angewandte Chemie - International Edition, 2019, 58, 15855-15862.	7.2	24
51	Understanding CrGeTe ₃ : an abnormal phase change material with inverse resistance and density contrast. Journal of Materials Chemistry C, 2019, 7, 9025-9030.	2.7	28
52	Theoretical prediction of a highly responsive material: Spin fluctuations and superconductivity in FeNiB ₂ system. Applied Physics Letters, 2019, 115, 182601.	1.5	4
53	Development of a deep machine learning interatomic potential for metalloid-containing Pd-Si compounds. Physical Review B, 2019, 100, .	1.1	39
54	Predicting Complex Relaxation Processes in Metallic Glass. Physical Review Letters, 2019, 123, 105701.	2.9	36

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55	Strong optical absorption of a metallic film to induce a lensing effect in the visible region. Scientific Reports, 2019, 9, 12434.	1.6	1
56	From NaZn ₄ Sb ₃ to $\text{HT-Na}_1\text{xZn}_4\text{ySb}_3$: Panoramic Hydride Synthesis, Structural Diversity, and Thermoelectric Properties. Chemistry of Materials, 2019, 31, 8695-8707.	3.2	19
57	Observation of $\hat{\Gamma}$ -Al ₄₁ Sm ₅ reveals motif-aware structural evolution in Al-Sm alloys. Scientific Reports, 2019, 9, 6692.	1.6	4
58	Quantum phase transition and ferromagnetism in $C\text{o}_x\text{Mn}_x\text{Mo}_x$. Physical Review B, 2019, 99, .	1.1	4
59	Topological states in A15 superconductors. Physical Review B, 2019, 99, .	1.1	16
60	Competitive B2 and B33 Nucleation during Solidification of Ni ₅₀ Zr ₅₀ Alloy: Molecular Dynamics Simulation and Classical Nucleation Theory. Journal of Physical Chemistry C, 2019, 123, 6685-6692.	1.5	6
61	Local structure origin of ultrafast crystallization driven by high-fidelity octahedral clusters in amorphous Sc _{0.2} Sb ₂ Te ₃ . Applied Physics Letters, 2019, 114, .	1.5	20
62	Effects of dopants on the glass forming ability in Al-based metallic alloy. Physical Review Materials, 2019, 3, .	0.9	10
63	Microstructure evolution during near- T _g annealing and its effect on shear banding in model alloys. Physical Review Materials, 2019, 3, .	0.9	3
64	Overcoming the Time Limitation in Molecular Dynamics Simulation of Crystal Nucleation: A Persistent-Embryo Approach. Physical Review Letters, 2018, 120, 085703.	2.9	46
65	Ternary Bismuthide SrPtBi ₂ : Computation and Experiment in Synergism to Explore Solid-State Materials. Journal of Physical Chemistry C, 2018, 122, 5057-5063.	1.5	4
66	A comparative study of Sm networks in Al-10 at.%Sm glass and associated crystalline phases. Philosophical Magazine Letters, 2018, 98, 27-37.	0.5	2
67	Evolution of short- and medium-range order in the melt-quenching amorphization of Ge ₂ Sb ₂ Te ₅ . Journal of Materials Chemistry C, 2018, 6, 5001-5011.	2.7	38
68	Using first-principles calculations to screen for fragile magnetism: Case study of LaCrGe_3 and LaCrSb_3 . Physical Review B, 2018, 97, .	1.1	6
69	Temperature dependence of the solid-liquid interface free energy of Ni and Al from molecular dynamics simulation of nucleation. Journal of Chemical Physics, 2018, 149, 174501.	1.2	17
70	Fundamental Link between $\hat{\Gamma}^2$ Relaxation, Excess Wings, and Cage-Breaking in Metallic Glasses. Journal of Physical Chemistry Letters, 2018, 9, 5877-5883.	2.1	44
71	Structures and magnetic properties of iron silicide from adaptive genetic algorithm and first-principles calculations. Journal of Applied Physics, 2018, 124, .	1.1	6
72	Influence of nitrogen dopants on the magnetization of Co_3N clusters. Physical Review Materials, 2018, 2, .	0.9	7

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73	Large tetragonal crystalline anisotropy in YCo_5 and ZrCo_5 compounds from first-principles real-space pseudopotentials calculations. Physical Review Materials, 2018, 2, .	0.9	4
74	Hybrid silicon-carbon nanostructures for broadband optical absorption. RSC Advances, 2017, 7, 8070-8076.	1.7	5
75	A scheme for the generation of Fe-P networks to search for low-energy LiFePO_4 crystal structures. Journal of Materials Chemistry A, 2017, 5, 14611-14618.	5.2	9
76	Growth and characterization of BaZnGa . Philosophical Magazine, 2017, 97, 3317-3324.	0.7	0
77	Structures, phase transitions, and magnetic properties of Co_3Si from first-principles calculations. Physical Review B, 2017, 96, .	1.1	8
78	Fe-Cluster Compounds of Chalcogenides: Candidates for Rare-Earth-Free Permanent Magnet and Magnetic Nodal-Line Topological Material. Inorganic Chemistry, 2017, 56, 14577-14583.	1.9	4
79	Cluster-Expansion Model for Complex Quinary Alloys: Application to Alnico Permanent Magnets. Physical Review Applied, 2017, 8, .	1.5	7
80	Theoretical Prediction of Si_2 - Si_{33} Absorption Spectra. Journal of Physical Chemistry A, 2017, 121, 6388-6397.	1.1	10
81	Theoretical search for possible Au-Si crystal structures using a genetic algorithm. Physical Review B, 2017, 95, .	1.1	9
82	Structural hierarchy as a key to complex phase selection in Al-Sm. Physical Review Materials, 2017, 1, .	0.9	14
83	Simulations of enhance broadband optical absorption by tuning mie resonance in silicon nanocone arrays. , 2016, , .		0
84	Structure and magnetism of new rare-earth-free intermetallic compounds: $\text{Fe}_{3+x}\text{Co}_3\text{Ti}_2$ ($0 \leq x \leq 3$). APL Materials, 2016, 4, .	2.2	8
85	Metal intercalation-induced selective adatom mass transport on graphene. Nano Research, 2016, 9, 1434-1441.	5.8	7
86	Fe-Si networks in $\text{Na}_2\text{FeSiO}_4$ cathode materials. Physical Chemistry Chemical Physics, 2016, 18, 23916-23922.	1.3	27
87	Effects of Oxygen Impurities on Glass-Formation Ability in Zr_2Cu Alloy. Journal of Physical Chemistry B, 2016, 120, 9223-9229.	1.2	18
88	Ferromagnetic Quantum Critical Point Avoided by the Appearance of Another Magnetic Phase in LaCrGe under Pressure. Physical Review Letters, 2016, 117, 037207.	2.9	47
89	Correlation Matrix Renormalization Theory: Improving Accuracy with Two-Electron Density-Matrix Sum Rules. Journal of Chemical Theory and Computation, 2016, 12, 4806-4811.	2.3	14
90	Gutzwiller renormalization group. Physical Review B, 2016, 93, .	1.1	4

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91	Interplay between surface and surface resonance states on height selective stability of fcc Dy(111) film at nanoscale. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31238-31243.	1.3	2
92	Metastable cobalt nitride structures with high magnetic anisotropy for rare-earth free magnets. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31680-31690.	1.3	28
93	Cooling rate dependence of structural order in Al90Sm10 metallic glass. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	43
94	â€ˆCrystal Genesâ€™™ in Metallic Liquids and Glasses. <i>Scientific Reports</i> , 2016, 6, 23734.	1.6	52
95	Zero-Strain Na₂FeSiO₄ as Novel Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17233-17238.	4.0	101
96	Stabilities and defect-mediated lithium-ion conduction in a ground state cubic Li₃N structure. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4185-4190.	1.3	5
97	Charge oscillations and interaction between potassium adatoms on graphene studied by first-principles calculations. <i>Physical Review B</i> , 2015, 91, .	1.1	9
98	Electronic structure of<math display="block">\text{CeMn}_2Physical Review B, 2015, 91, .	1.1	9
99	Three-center tight-binding potential model for C and Si. <i>Physical Review B</i> , 2015, 92, .	1.1	17
100	Nature of the Insulating Ground State of the<math display="block">\text{Ca}_5\text{Mn}_2\text{O}_{22}\text{Ca}_3\text{MnO}_7Physical Review Letters, 2015, 115, 096401.	2.9	22
101	Efficient and accurate treatment of electron correlations with Correlation Matrix Renormalization theory. <i>Scientific Reports</i> , 2015, 5, 13478.	1.6	11
102	Exploration of tetrahedral structures in silicate cathodes using a motif-network scheme. <i>Scientific Reports</i> , 2015, 5, 15555.	1.6	27
103	A computational study of diffusion in a glass-forming metallic liquid. <i>Scientific Reports</i> , 2015, 5, 10956.	1.6	11
104	Local structure order in Pd78Cu6Si16 liquid. <i>Scientific Reports</i> , 2015, 5, 8277.	1.6	26
105	Dynamics and Diffusion Mechanism of Low-Density Liquid Silicon. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14945-14951.	1.2	2
106	Broadband optical absorption by tunable Mie resonances in silicon nanocone arrays. <i>Scientific Reports</i> , 2015, 5, 7810.	1.6	126
107	Phase Diagram and Electronic Structure of Praseodymium and Plutonium. <i>Physical Review X</i> , 2015, 5, .	2.8	67
108	Cluster expansion modeling and Monte Carlo simulation of alnico 5â€™7 permanent magnets. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	7

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109	Structures and stability of metal-doped GenM (n = 9, 10) clusters. AIP Advances, 2015, 5, .	0.6	14
110	Nonclassical "Explosive" Nucleation in Pb/Si(111) at Low Temperatures. Physical Review Letters, 2014, 113, 236101.	2.9	15
111	Quantum confinement induced oscillatory electric field on a stepped Pb(111) film and its influence on surface reactivity. Physical Review B, 2014, 89, .	1.1	8
112	Evolution of optical properties of tin film from solid to liquid studied by spectroscopic ellipsometry and ab initio calculation. Applied Physics Letters, 2014, 104, 121907.	1.5	14
113	Structure of Cu _{64.5} Zr _{35.5} metallic glass by reverse Monte Carlo simulations. Journal of Applied Physics, 2014, 115, 053522.	1.1	6
114	Structures and magnetic properties of Fe clusters on graphene. Physical Review B, 2014, 90, .	1.1	28
115	Interplay of spin-orbit and entropic effects in cerium. Physical Review B, 2014, 90, .	1.1	20
116	Impact of deformation on the atomic structures and dynamics of a Cu-Zr metallic glass: A molecular dynamics study. Physical Review B, 2014, 90, .	1.1	13
117	Effects of sub- <i>T_g</i> annealing on Cu _{64.5} Zr _{35.5} glasses: A molecular dynamics study. Applied Physics Letters, 2014, 104, .	1.5	51
118	An adaptive genetic algorithm for crystal structure prediction. Journal of Physics Condensed Matter, 2014, 26, 035402.	0.7	120
119	New Be-intercalated hexagonal boron layer structure of BeB ₂ . RSC Advances, 2014, 4, 15061-15065.	1.7	5
120	Ultrafast Bulk Diffusion of AlH _x in High-Entropy Dehydrogenation Intermediates of NaAlH ₄ . Journal of Physical Chemistry C, 2014, 118, 18356-18361.	1.5	3
121	Interface Structure Prediction from First-Principles. Journal of Physical Chemistry C, 2014, 118, 9524-9530.	1.5	39
122	Exploring the Structural Complexity of Intermetallic Compounds by an Adaptive Genetic Algorithm. Physical Review Letters, 2014, 112, 045502.	2.9	97
123	On-the-fly machine-learning for high-throughput experiments: search for rare-earth-free permanent magnets. Scientific Reports, 2014, 4, 6367.	1.6	212
124	Atomic Structure and Magnetic Properties of HfCo ₇ Alloy. IEEE Transactions on Magnetics, 2013, 49, 3281-3283.	1.2	6
125	Structures and stabilities of alkaline earth metal peroxides XO ₂ (X = Ca, Be, Mg) studied by a genetic algorithm. RSC Advances, 2013, 3, 22135.	1.7	20
126	Formation and development of dislocation in graphene. Applied Physics Letters, 2013, 102, .	1.5	31

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127	Influence of oriented topological defects on the mechanical properties of carbon nanotube heterojunctions. Journal of Applied Physics, 2013, 114, 144306.	1.1	2
128	The Genetic Algorithm in Real-Space Representation. , 2013, , 11-35.		0
129	Metals on Graphene: Interactions, Growth Morphology, and Thermal Stability. Crystals, 2013, 3, 79-111.	1.0	135
130	Growth morphology and thermal stability of metal islands on graphene. Physical Review B, 2012, 86, .	1.1	38
131	Double icosahedron-based motif of Ni _n ($n = 20\sim 30$). International Journal of Quantum Chemistry, 2012, 112, 1717-1724.	1.0	17
132	The benchmark of Gutzwiller density functional theory in hydrogen systems. International Journal of Quantum Chemistry, 2012, 112, 240-246.	1.0	5
133	The benchmark of gutzwiller density functional theory in hydrogen systems. International Journal of Quantum Chemistry, 2012, 112, 2766-2766.	1.0	0
134	Fluctuation between icosahedral and body-centered-cube short-range orders in undercooled Zr liquid. Journal of Applied Physics, 2011, 110, .	1.1	16
135	Fluctuation between icosahedral and body-centered-cube short-range orders in undercooled Zr liquid. Journal of Applied Physics, 2011, 110, .	1.1	48
136	Fe-Fe adatom interaction and growth morphology on graphene. Physical Review B, 2011, 84, .	1.1	23
137	Bonding and charge transfer by metal adatom adsorption on graphene. Physical Review B, 2011, 83, .	1.1	167
138	Competition between fcc and icosahedral short-range orders in pure and samarium-doped liquid aluminum from first principles. Physical Review B, 2011, 83, .	1.1	24
139	Identification of post-pyrite phase transitions in SiO ₂ by a genetic algorithm. Physical Review B, 2011, 83, .	1.1	46
140	Ultrahigh-pressure phases of H ₂ O ice predicted using an adaptive genetic algorithm. Physical Review B, 2011, 84, .	1.1	72
141	Identification of post-pyrite phase transitions in SiO ₂ by a genetic algorithm. Physical Review B, 2011, 83, .	1.1	29
142	Medium-range icosahedral order in quasicrystal-forming Zr ₂ Pd binary metallic glass. Applied Physics Letters, 2011, 98, .	1.5	13
143	Atomistic cluster alignment method for local order mining in liquids and glasses. Physical Review B, 2010, 82, .	1.1	120
144	High Efficiency GaN Light-Emitting Diodes With Two Dimensional Photonic Crystal Structures of Deep-Hole Square Lattices. IEEE Journal of Quantum Electronics, 2010, 46, 116-120.	1.0	34

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145	Effects of Nanometer-Scale Photonic Crystal Structures on the Light Extraction From GaN Light-Emitting Diodes. IEEE Journal of Quantum Electronics, 2010, 46, 1375-1380.	1.0	30
146	Improved surface wettability of polyurethane films by ultraviolet ozone treatment. Journal of Applied Polymer Science, 2010, 118, 3024-3033.	1.3	25
147	The role of pentagon–heptagon pair defect in carbon nanotube: The center of vacancy reconstruction. Applied Physics Letters, 2010, 97, 093106.	1.5	15
148	Atomic size and chemical effects on the local order of Zr_2 alloy. Physical Review B, 2010, 81, .	1.1	55
149	Semocrystalline woodpile photonic crystals without complicated alignment via soft lithography. Applied Physics Letters, 2010, 96, .	1.5	5
150	Reconstruction and evaporation at graphene nanoribbon edges. Physical Review B, 2010, 81, .	1.1	55
151	Short- and medium-range order in amorphous Zr_2 alloy. Physical Review B, 2010, 81, .	1.1	38
152	Adsorption and growth morphology of rare-earth metals on graphene studied by <i>ab initio</i> calculations and scanning tunneling microscopy. Physical Review B, 2010, 82, .	1.1	66
153	Thermodynamic limits of crystallization and the prediction of glass formation tendency. Physical Review B, 2010, 81, .	1.1	8
154	Stochastic coarsening model for Pb islands on a Si(111) surface. Physical Review B, 2010, 82, .	1.1	6
155	Competition between area and height evolution of Pb islands on a Si(111) surface. Physical Review B, 2009, 79, .	1.1	12
156	Interfacial disorder and optoelectronic properties of diamond nanocrystals. Physical Review B, 2009, 80, .	1.1	4
157	Effects of defect permittivity on resonant frequency and mode shape in the three-dimensional woodpile photonic crystal. Journal of Applied Physics, 2009, 105, 103109.	1.1	5
158	Global Optimization of 2-Dimensional Nanoscale Structures: A Brief Review. Materials and Manufacturing Processes, 2009, 24, 109-118.	2.7	9
159	Textured substrate based organic solar cell for higher absorption and improved performance. Materials Research Society Symposia Proceedings, 2009, 1210, 1.	0.1	0
160	Tight-binding Hamiltonian from first-principles calculations. Scientific Modeling and Simulation SMNS, 2008, 15, 81-95.	0.8	9
161	Atomistic simulation studies of complex carbon and silicon systems using environment-dependent tight-binding potentials. Scientific Modeling and Simulation SMNS, 2008, 15, 97-121.	0.8	4
162	Honeycomb chain structure of the $Au\hat{\cdot}Si(111)\hat{\cdot}(5\text{\AA}-2)$ surface reconstruction: A first-principles study. Physical Review B, 2008, 77, .	1.1	20

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163	Modeling of three-dimensional photonic crystal lasers in a frequency domain: A scattering matrix solution. <i>Physical Review B</i> , 2008, 77, .	1.1	5
164	Atomic and electronic structures of AgSi . A first-principles study. <i>Physical Review B</i> , 2008, 78, .	1.1	7
165	The formation of pentagon-heptagon pair defect by the reconstruction of vacancy defects in carbon nanotube. <i>Applied Physics Letters</i> , 2008, 92, 043104.	1.5	33
166	Design of midinfrared photodetectors enhanced by resonant cavities with subwavelength metallic gratings. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	32
167	Short- and medium-range order in ZrSi . Experimental and simulation studies. <i>Physical Review B</i> , 2008, 78, .	1.1	73
168	Quasiatomic orbitals for <i>ab initio</i> tight-binding analysis. <i>Physical Review B</i> , 2008, 78, .	1.1	90
169	Formation of carbon nanotube semiconductor-metal intramolecular junctions by self-assembly of vacancy defects. <i>Physical Review B</i> , 2007, 76, .	1.1	32
170	Tight-Binding Molecular Dynamics Studies of Covalent Systems. <i>Advances in Chemical Physics</i> , 2007, , 651-702.	0.3	18
171	Highly localized quasiatomic minimal basis orbitals for Mo from <i>ab initio</i> calculations. <i>Physical Review B</i> , 2007, 76, .	1.1	41
172	Analysis of photon recycling using metallic photonic crystal. <i>Journal of Applied Physics</i> , 2007, 102, 063107.	1.1	11
173	Vacancy defects and the formation of local haeckelite structures in graphene from tight-binding molecular dynamics. <i>Physical Review B</i> , 2006, 74, .	1.1	81
174	Interface mobility and the liquid-glass transition in a one-component system described by an embedded atom method potential. <i>Physical Review B</i> , 2006, 74, .	1.1	34
175	Structures of Si_7H_{2m} ($m=1\text{--}7$) clusters by global optimization. <i>Physical Review B</i> , 2006, 74, .	1.1	10
176	Achieving a photonic band edge near visible wavelengths by metallic coatings. <i>Journal of Applied Physics</i> , 2006, 99, 083104.	1.1	11
177	A first-principles study of Group IV dimer chains on Si(100). <i>Physical Review B</i> , 2005, 72, .	1.1	21
178	Model reconstructions for the Si(337) orientation. <i>Journal of Applied Physics</i> , 2005, 98, 073507.	1.1	19
179	Transferability of the Slater-Koster tight-binding scheme from an environment-dependent minimal-basis perspective. <i>Physical Review B</i> , 2005, 72, .	1.1	27
180	Light coupling with multimode photonic crystal waveguides. <i>Applied Physics Letters</i> , 2004, 84, 4699-4701.	1.5	25

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181	Representation of electronic structures in crystals in terms of highly localized quasiatomic minimal basis orbitals. <i>Physical Review B</i> , 2004, 70, .	1.1	63
182	Waveguide networks in three-dimensional layer-by-layer photonic crystals. <i>Applied Physics Letters</i> , 2004, 84, 4605-4607.	1.5	30
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