

Hai-Yao Deng

List of Publications by Year in descending order

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papers

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all docs

39
docs citations

39
times ranked

449
citing authors

#	ARTICLE	IF	CITATIONS
1	Helical Topological Edge States in a Quadrupole Phase. <i>Physical Review Letters</i> , 2019, 122, 086804.	2.9	133
2	Topological photonic crystals with zero Berry curvature. <i>Physical Review B</i> , 2018, 97, .	1.1	94
3	Spatial Heterogeneities in Structural Temperature Cause Kovacs's Expansion Gap Paradox in Aging of Glasses. <i>Physical Review Letters</i> , 2020, 124, 095501.	2.9	26
4	Approach to solving spin-boson dynamics via non-Markovian quantum trajectories. <i>Physical Review A</i> , 2014, 90, .	1.0	21
5	Vacancy effects on electronic and transport properties of graphene nanoribbons. <i>Physical Review B</i> , 2015, 91, .	1.1	21
6	Edge effect on a vacancy state in semi-infinite graphene. <i>Physical Review B</i> , 2014, 90, .	1.1	19
7	Fragile Glasses Associated with a Dramatic Drop of Entropy under Supercooling. <i>Physical Review Letters</i> , 2020, 125, 265703.	2.9	13
8	A theory of electrodynamic response for bounded metals: Surface capacitive effects. <i>Annals of Physics</i> , 2020, 418, 168204.	1.0	11
9	Retardation effects on plasma waves in graphene, topological insulators, and quantum wires. <i>Physical Review B</i> , 2015, 92, .	1.1	10
10	Decomposition into propagating and evanescent modes of graphene ribbons. <i>Physical Review B</i> , 2014, 90, .	1.1	9
11	Universal self-amplification channel for surface plasma waves. <i>Physical Review B</i> , 2017, 95, .	1.1	9
12	Configuration-tree theoretical calculation of the mean-squared displacement of particles in glass formers. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 094014.	0.9	9
13	A universal macroscopic theory of surface plasma waves and their losses. <i>New Journal of Physics</i> , 2019, 21, 043055.	1.2	9
14	Mode-Matching Approach to Current Blocking Effect in Graphene Nanoribbons. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 104707.	0.7	8
15	Full Slonczewski-Weiss-McClure parametrization of few-layer twistrionic graphene. <i>Physical Review B</i> , 2021, 104, .	1.1	8
16	An atomistic approach to the dielectric modes of BaTiO ₃ and SrTiO ₃ . <i>Solid State Communications</i> , 2011, 151, 474-477.	0.9	7
17	Formation mechanism of bound states in graphene point contacts. <i>Physical Review B</i> , 2014, 89, .	1.1	7
18	Possible instability of the Fermi sea against surface plasma oscillations. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 455002.	0.7	7

#	ARTICLE	IF	CITATIONS
19	Theory of nonretarded ballistic surface plasma waves in metal films. <i>Physical Review B</i> , 2017, 95, .	1.1	7
20	On the terahertz dielectric response of cubic BaTiO ₃ : Coexistence of displacive and order-disorder dynamics. <i>Europhysics Letters</i> , 2012, 100, 27001.	0.7	6
21	Incipient ferroelectrics: Anomalous $T^{\frac{2}{3}}$ behaviors and their rotor interpretation. <i>Solid State Communications</i> , 2012, 152, 112-115.	0.9	6
22	On the origin of oxygen isotope exchange induced ferroelectricity in strontium titanate. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	5
23	Electrostatic responses of anisotropic dielectric films. <i>European Journal of Physics</i> , 2020, 41, 035203.	0.3	5
24	Quantum paraelectricity: The tunneling between excited levels. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 3100-3102.	0.9	4
25	Large heat-capacity jump in cooling-heating of fragile glass from kinetic Monte Carlo simulations based on a two-state picture. <i>Physical Review E</i> , 2021, 104, 024131.	0.8	4
26	Kovacs effect in glass with material memory revealed in non-equilibrium particle interactions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 093303.	0.9	4
27	Spin glass behaviors compatible with a Zhang-Rice singlet within an effective model for cuprate superconductors. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 075702.	0.7	3
28	Comment on "Intrinsic dielectric frequency dependent spectrum of a single domain tetragonal BaTiO ₃ ". [<i>J. Appl. Phys.</i> 112, 014108 (2012)]. <i>Journal of Applied Physics</i> , 2013, 113, 126104.	1.1	3
29	Hydrodynamic effects on the energy transfer from dipoles to metal slab. <i>Journal of Chemical Physics</i> , 2021, 155, 114109.	1.2	3
30	On the electrical conductivity of metals with a rough surface. <i>Philosophical Magazine</i> , 2021, 101, 729-752.	0.7	3
31	Emergence of two-level systems in glass formers: a kinetic Monte Carlo study. <i>Soft Matter</i> , 2022, 18, 2211-2221.	1.2	3
32	Optical excitation of surface plasma waves without grating structures. <i>Europhysics Letters</i> , 2016, 114, 35002.	0.7	2
33	Hidden rotational symmetry in a generalized Ising model with rectangular symmetry. <i>Physica Scripta</i> , 2011, 84, 025011.	1.2	1
34	Electronic states in heterostructures with piece-wise uniform Dirac cones. <i>Journal of Applied Physics</i> , 2012, 111, 033706.	1.1	1
35	Power Spectral Density of Free-Standing Viscoelastic Films by Adiabatic Approximation. <i>Langmuir</i> , 2013, 29, 4283-4289.	1.6	1
36	Strong mechanically induced effects in DC current-biased suspended Josephson junctions. <i>Physical Review B</i> , 2018, 97, .	1.1	1

#	ARTICLE	IF	CITATIONS
37	Near-Infrared Quantum Cascade Lasers Designed with van der Waals Materials. <i>Physical Review Applied</i> , 2021, 16, .	1.5	1
38	A two-plaquette polaron picture for the single-hole state of cuprates. <i>Superconductor Science and Technology</i> , 2012, 25, 075003.	1.8	0
39	Probable realization of rotor systems in SrTiO ₃ and PbZr _{1-x} Ti _x O ₃ . <i>Physica B: Condensed Matter</i> , 2013, 421, 83-86.	1.3	0