

Chao Lian

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,333
citations

279701

23
h-index

360920

35
g-index

46
all docs

46
docs citations

46
times ranked

1890
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct evidence of metallic bands in a monolayer boron sheet. Physical Review B, 2016, 94, .	1.1	152
2	A Machine Learning Approach for Predicting Defluorination of Per- and Polyfluoroalkyl Substances (PFAS) for Their Efficient Treatment and Removal. Environmental Science and Technology Letters, 2019, 6, 624-629.	3.9	90
3	Interlayerâ€Stateâ€Coupling Dependent Ultrafast Charge Transfer in MoS₂/WS₂ Bilayers. Advanced Science, 2017, 4, 1700086.	5.6	87
4	Integrated Plasmonics: Broadband Dirac Plasmons in Borophene. Physical Review Letters, 2020, 125, 116802.	2.9	67
5	Photoexcitation in Solids: Firstâ€Principles Quantum Simulations by Realâ€Time TDDFT. Advanced Theory and Simulations, 2018, 1, 1800055.	1.3	64
6	Ultrafast charge ordering by self-amplified excitonâ€phonon dynamics in TiSe2. Nature Communications, 2020, 11, 43.	5.8	53
7	Lattice thermal conductivity including phonon frequency shifts and scattering rates induced by quartic anharmonicity in cubic oxide and fluoride perovskites. Physical Review B, 2021, 104, .	1.1	40
8	Indirect but Efficient: Laser-Excited Electrons Can Drive Ultrafast Polarization Switching in Ferroelectric Materials. Journal of Physical Chemistry Letters, 2019, 10, 3402-3407.	2.1	39
9	Ultrafast photoinduced band splitting and carrier dynamics in chiral tellurium nanosheets. Nature Communications, 2020, 11, 3991.	5.8	39
10	Benign Interfacial Iodine Vacancies in Perovskite Solar Cells. Journal of Physical Chemistry C, 2017, 121, 5905-5913.	1.5	36
11	Quartic anharmonicity and anomalous thermal conductivity in cubic antiperovskites. $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle A \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:math} \text{mathvariant="normal"} \rangle O \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \langle \text{mml:math} \rangle$		

#	ARTICLE	IF	CITATIONS
19	High thermopower and potential thermoelectric properties of crystalline LiH and NaH. Physical Review B, 2017, 95, .	1.1	26
20	Exotic thermoelectric behavior in nitrogenated holey graphene. RSC Advances, 2017, 7, 25803-25810.	1.7	25
21	Universal Scaling of Intrinsic Resistivity in Two-Dimensional Metallic Borophene. Angewandte Chemie - International Edition, 2018, 57, 4585-4589.	7.2	25
22	Cooperative evolution of intraband and interband excitations for high-harmonic generation in strained MoS_2 . Physical Review B, 2019, 99, .	1.1	24
23	Anomalous electronic and thermoelectric transport properties in cubic antiperovskite. Physical Review B, 2020, 102, .	1.1	24
24	Intrinsic electronic transport and thermoelectric power factor in n-type doped monolayer MoS_2 . New Journal of Physics, 2018, 20, 043009.	1.2	23
25	Prediction of two-dimensional electron gas mediated magnetoelectric coupling at ferroelectric heterostructures. Physical Review B, 2017, 95, .	1.1	22
26	Nonadiabatic Dynamics of Photocatalytic Water Splitting on A Polymeric Semiconductor. Nano Letters, 2021, 21, 6449-6455.	4.5	22
27	Momentum-resolved TDDFT algorithm in atomic basis for real time tracking of electronic excitation. Journal of Chemical Physics, 2018, 149, 154104.	1.2	21
28	Dirac cone pairs in silicene induced by interface Si-Ag hybridization: A first-principles effective band study. Physical Review B, 2017, 95, .	1.1	20
29	Magnetic Dirac fermions and Chern insulator supported on pristine silicon surface. Physical Review B, 2016, 94, .	1.1	18
30	Charge density wave hampers exciton condensation in MgB_4 . Physical Review B, 2019, 100, .	1.1	18
31	MgB_4 trilayer film: A four-gap superconductor. Physical Review B, 2020, 101, .	1.1	18
32	First-principles dynamics of photoexcited molecules and materials towards a quantum description. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2021, 11, e1492.	6.2	18
33	Strain modulated electronic properties of silicon nanoribbons with armchair edges. Chemical Physics Letters, 2013, 561-562, 77-81.	1.2	17
34	Low lattice thermal conductivity and good thermoelectric performance of cinnabar. Physical Review Materials, 2017, 1, .	0.9	16
35	Toward attosecond control of electron dynamics in two-dimensional materials. Applied Physics Letters, 2020, 116, .	1.5	14
36	The effects of thermal and electric fields on the electronic structures of silicene. Physical Chemistry Chemical Physics, 2015, 17, 13366-13373.	1.3	13

#	ARTICLE	IF	CITATIONS
37	Tracking photocarrier-enhanced electron-phonon coupling in nonequilibrium. Npj Quantum Materials, 2022, 7, .	1.8	10
38	Quantum dynamics simulations: combining path integral nuclear dynamics and real-time TDDFT. Electronic Structure, 2019, 1, 044005.	1.0	7
39	<i>Ab initio</i> study on anisotropic thermoelectric transport in ternary pnictide KZnP. JPhys Materials, 2019, 2, 024001.	1.8	6
40	Band Gap Adjustment of SiC Honeycomb Structure through Hydrogenation and Fluorination. Chinese Physics Letters, 2017, 34, 017302.	1.3	5
41	Tailoring of the structural, energetic and electronic properties of silicene-based nanostructures. Journal of Physics: Conference Series, 2014, 491, 012005.	0.3	4
42	Universal Scaling of Intrinsic Resistivity in Two-Dimensional Metallic Borophene. Angewandte Chemie, 2018, 130, 4675-4679.	1.6	4
43	Reply to "Comment on " <i>Ab initio</i> evidence for nonthermal characteristics in ultrafast laser melting". Physical Review B, 2019, 99, .	1.1	4
44	Robust quantum spin Hall state and quantum anomalous Hall state in graphenelike BC ₃ with adatoms. New Journal of Physics, 2018, 20, 073047.	1.2	2
45	Nonadiabatic electron-phonon coupling and its effects on superconductivity. Physical Review B, 2022, 105, .	1.1	1