Wenchang Lu

List of Publications by Year
in descending order

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24	930	567281 15	610901 24
papers	citations	h-index	g-index

24	24	24	1206
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ferroelectric polymers exhibiting behaviour reminiscent of a morphotropic phase boundary. Nature, 2018, 562, 96-100.	27.8	200
2	Chirality-induced relaxor properties in ferroelectric polymers. Nature Materials, 2020, 19, 1169-1174.	27.5	93
3	Structural Insight in the Interfacial Effect in Ferroelectric Polymer Nanocomposites. Advanced Materials, 2020, 32, e2005431.	21.0	84
4	Relaxor ferroelectric polymer exhibits ultrahigh electromechanical coupling at low electric field. Science, 2022, 375, 1418-1422.	12.6	74
5	Nonequilibrium Quantum Transport Properties of Organic Molecules on Silicon. Physical Review Letters, 2005, 95, 206805.	7.8	65
6	Seamless Staircase Electrical Contact to Semiconducting Graphene Nanoribbons. Nano Letters, 2017, 17, 6241-6247.	9.1	64
7	Controllable conversion of quasi-freestanding polymer chains to graphene nanoribbons. Nature Communications, 2017, 8, 14815.	12.8	58
8	Optical Anisotropy of theSiC(001)-(3Ã—2)Surface: Evidence for the Two-Adlayer Asymmetric-Dimer Model. Physical Review Letters, 2000, 85, 4381-4384.	7.8	37
9	Selective sensing of ethylene and glucose using carbon-nanotube-based sensors: an ab initio investigation. Nanoscale, 2017, 9, 1687-1698.	5.6	33
10	Identification of Efficient Single-Atom Catalysts Based on V₂CO₂ MXene by ab Initio Simulations. Journal of Physical Chemistry C, 2020, 124, 4090-4100.	3.1	31
11	Engineering Edge States of Graphene Nanoribbons for Narrow-Band Photoluminescence. ACS Nano, 2020, 14, 5090-5098.	14.6	27
12	Oxidization stability of atomically precise graphene nanoribbons. Physical Review Materials, 2018, 2, .	2.4	25
13	Implementation of ultrasoft pseudopotentials in large-scale grid-based electronic structure calculations. Physical Review B, 2007, 76, .	3.2	23
14	Design of Atomically Precise Nanoscale Negative Differential Resistance Devices. Advanced Theory and Simulations, 2019, 2, 1800172.	2.8	18
15	Direct writing of heterostructures in single atomically precise graphene nanoribbons. Physical Review Materials, 2019, 3, .	2.4	18
16	Insights into the Morphotropic Phase Boundary in Ferroelectric Polymers from the Molecular Perspective. Journal of Physical Chemistry C, 2019, 123, 8727-8730.	3.1	16
17	Step edge-mediated assembly of periodic arrays of long graphene nanoribbons on Au(111). Chemical Communications, 2019, 55, 11848-11851.	4.1	14
18	Local manifestations of thickness-dependent topology and edge states in the topological magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>MnBi</mml:mi><mml:mn>2</mml:mn></mr Physical Review B, 2022, 105, .	3.2	12

#	Article	IF	Citations
19	On-surface cyclodehydrogenation reaction pathway determined by selective molecular deuterations. Chemical Science, 2021, 12, 15637-15644.	7.4	11
20	Large-Scale Phonon Calculations Using the Real-Space Multigrid Method. Journal of Chemical Theory and Computation, 2019, 15, 6859-6864.	5.3	9
21	Ab initio investigation of the cyclodehydrogenation process for polyanthrylene transformation to graphene nanoribbons. Npj Computational Materials, 2019, 5, .	8.7	9
22	Density functional theory studies of quantum transport in molecular systems. International Journal of Quantum Chemistry, 2006, 106, 3334-3342.	2.0	4
23	Study of Anharmonicity in Zirconium Hydrides Using Inelastic Neutron Scattering and Ab-Initio Computer Modeling. Inorganics, 2021, 9, 29.	2.7	3
24	Ab initio simulations of metal contacts for graphene-based devices. Journal of Applied Physics, 2022, 131, 214301.	2.5	2