Chun Li

List of Publications by Year
in descending order

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66	1,013	394421	477307
papers	citations	19	29
		h-index	g-index

68	68	68	1037
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrostatic Functionalization and Passivation of Water-Exfoliated Few-Layer Black Phosphorus by Poly Dimethyldiallyl Ammonium Chloride and Its Ultrafast Laser Application. ACS Applied Materials & Interfaces, 2018, 10, 9679-9687.	8.0	57
2	First-principles investigation of technetium carbides and nitrides. Physical Review B, 2009, 79, .	3.2	56
3	First-principles study of the dependence of ground-state structural properties on the dimensionality and size of ZnO nanostructures. Physical Review B, 2007, 76, .	3.2	55
4	First-principles study on ZnO nanoclusters with hexagonal prism structures. Applied Physics Letters, 2007, 90, 223102.	3.3	55
5	Tuning Magnetism in Zigzag ZnO Nanoribbons by Transverse Electric Fields. ACS Nano, 2010, 4, 2124-2128.	14.6	52
6	Local light-induced spin manipulation in two magnetic centre metallic chains. Journal Physics D: Applied Physics, 2008, 41, 164006.	2.8	47
7	Stacking-Dependent Interlayer Magnetic Coupling in 2D CrI₃/CrGeTe₃ Nanostructures for Spintronics. ACS Applied Nano Materials, 2020, 3, 1282-1288.	5.0	47
8	Size-dependent piezoelectricity in zinc oxide nanofilms from first-principles calculations. Applied Physics Letters, 2007, 90, 033108.	3.3	45
9	Electric-Field- and Hydrogen-Passivation-Induced Band Modulations in Armchair ZnO Nanoribbons. Journal of Physical Chemistry C, 2010, 114, 1326-1330.	3.1	42
10	Theory of laser-induced ultrafast magneto-optic spin flip and transfer in charged two-magnetic-center molecular ions: Role of bridging atoms. Physical Review B, 2011, 84, .	3.2	37
11	Strain assisted ultrafast spin switching on Co2@C60 endohedral fullerenes. Carbon, 2015, 87, 153-162.	10.3	34
12	First-principles calculation of the ultrafast spin manipulation of two-center metallic clusters with a CO molecule attached to one center as an infrared marker. Physical Review B, 2009, 79, .	3.2	30
13	Size effect on the plastic deformation of pre-void Ni/Ni3Al interface under uniaxial tension: A molecular dynamics simulation. Computational Materials Science, 2018, 148, 200-206.	3.0	26
14	Multiferroic decorated Fe₂O₃ monolayer predicted from first principles. Nanoscale, 2020, 12, 14847-14852.	5.6	24
15	Piezoelectricity of ZnO and its nanostructures. , 2008, , .		23
16	Laser control of ultrafast spin dynamics on homodinuclear iron- and nickel-oxide clusters. Physical Review B, 2014, 89, .	3.2	22
17	Controlled growth of large-scale uniform 1Tâ€² MoTe₂ crystals with tunable thickness and their photodetector applications. Nanoscale Horizons, 2020, 5, 954-959.	8.0	22
18	Charge carrier separation induced by intrinsic surface strain in pristine ZnO nanowires. Applied Physics Letters, 2010, 97, .	3.3	21

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19	Reversible ultrafast spin switching on Ni@B₈₀endohedral fullerene. Physical Chemistry Chemical Physics, 2017, 19, 673-680.	2.8	21
20	Controllable spin-dynamics cycles and ERASE functionality on quasilinear molecular ions. Physical Review B, 2014, 89, .	3.2	20
21	Theory of adhesive contact on multi-ferroic composite materials: Conical indenter. International Journal of Solids and Structures, 2021, 233, 111217.	2.7	18
22	Local-Strain-Induced Charge Carrier Separation and Electronic Structure Modulation in Zigzag ZnO Nanotubes: Role of Built-In Polarization Electric Field. Journal of Physical Chemistry C, 2011, 115, 2381-2385.	3.1	15
23	Ab Initio Theory for Ultrafast Magnetic Local Spin Flip on the Newly Synthesized Homodinuclear Complex [Ni^{II}₂(<scp>l</scp>-N₄Me₂)(emb)]. Journal of Physical Chemistry A, 2011, 115, 1774-1780.	2.5	14
24	Prediction of fatigue crack growth retardation using a cyclic cohesive zone model. Archive of Applied Mechanics, 2017, 87, 1061-1075.	2.2	13
25	Ab initio study of ultrafast laser-induced spin flip, spin-flip transfer, and spin crossover in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mi>m</mml:mi></mml:msub></mml:mrow></mml:math>		

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37	Head-on collision of binary nanodroplets on rough surfaces: Impact velocity dependent spreading dynamics. Applied Surface Science, 2021, 541, 148426.	6.1	7
38	Continuum Mechanics Simulation of Post-buckling of Single-Walled Nanotubes. International Journal of Nonlinear Sciences and Numerical Simulation, 2003, 4, .	1.0	6
39	Controllable dewetting transition on graphene-based nanotextured surfaces. Applied Surface Science, 2020, 520, 146374.	6.1	6
40	First-principles study of spin properties and laser-induced ultrafast spin dynamics in transition-metal oxide clusters <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="italic">TM</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msubsup><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn><mml:mrow><mml:mn>0</mml:mn><mml:mo>/</mml:mo><mml:mo>+</m		

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55	Strain-Induced Modulations of Electro-Optic and Nonlinear Optical Properties of ZnO: A First-Principles Study. Applied Mechanics and Materials, 0, 29-32, 1803-1808.	0.2	2
56	Mechano-Ferroelectric Coupling: Stabilization Enhancement and Polarization Switching in Bent AgBiP2Se6 Monolayer. Nanoscale Horizons, 2021, 6, 971-978.	8.0	2
57	Optically- and thermally-induced electronic transitions in a three-level system. Physica Scripta, 2020, 95, 105808.	2.5	2
58	Surface deformation-dependent mechanical properties of bending nanowires: an ab initio core-shell model. Applied Mathematics and Mechanics (English Edition), 2022, 43, 219-232.	3.6	2
59	Passivation of Transition Metal Dichalcogenides Monolayers with a Surfaceâ€Confined Atomically Thick Sulfur Layer. Small Structures, 2022, 3, .	12.0	2
60	Local spin flip in two- and three-magnetic-center structures: A first-principles approach. Journal of Physics: Conference Series, 2010, 200, 042011.	0.4	1
61	Laser-Induced Ultrafast Spin and Rotational Dynamics in Cobalt Trimer Cation. Journal of Superconductivity and Novel Magnetism, 2017, 30, 801-806.	1.8	1
62	Failure mode transformation of ZnO nanowires under uniaxial compression: from phase transition to buckling. Nanotechnology, 2019, 30, 375702.	2.6	1
63	First-principles calculation of monitoring spin states of small magnetic nanostructures with IR spectrum of CO. Journal of Physics: Conference Series, 2010, 200, 042014.	0.4	0
64	Investigation of the strain-affected ultrafast spin switching on cobalt-doped carbon fullerenes. , 2015, , .		0
65	Ultrafast spin dynamics in double-magnetic-center endohedral fullerene Y₂C₂@C₈₂-C₂(1). Wuli Xuebao/Acta Physica Sinica, 2019, 68, 023101.	0.5	0
66	Synergistic Sizeâ€“Surface Effects on Martensitic Transformation of Shape Memory Alloy Nanorods for Micro/Nanoelectro-Mechanical Systems. ACS Applied Nano Materials, 0, , .	5.0	0