

Chun Li

List of Publications by Year in descending order

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66
papers

1,013
citations

394421

19
h-index

477307

29
g-index

68
all docs

68
docs citations

68
times ranked

1037
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface deformation-dependent mechanical properties of bending nanowires: an ab initio core-shell model. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2022, 43, 219-232.	3.6	2
2	Passivation of Transition Metal Dichalcogenides Monolayers with a Surface-Confined Atomically Thick Sulfur Layer. <i>Small Structures</i> , 2022, 3, .	12.0	2
3	Computational Investigation of Orderly Doped Transition Metal Dichalcogenides: Implications for Nanoscale Optoelectronic Devices. <i>ACS Applied Nano Materials</i> , 2022, 5, 3824-3831.	5.0	5
4	Two-qubit logic gates based on the ultrafast spin transfer in π -conjugated graphene nanoflakes. <i>Carbon</i> , 2022, 193, 195-204.	10.3	6
5	Self-Propelled Nanodroplet Jumping Enhanced by Nanocone Arrays: Implications for Self-Cleaning and Anti-Icing Surfaces. <i>ACS Applied Nano Materials</i> , 2022, 5, 810-817.	5.0	3
6	Synergistic effect of axial-torsional-radial deformation on the multi-strand helical filament artificial muscles. <i>Applied Mathematical Modelling</i> , 2022, 109, 760-774.	4.2	5
7	Mechanical Behaviors in Janus Transition-Metal Dichalcogenides: A Molecular Dynamics Simulation. <i>Nanomaterials</i> , 2022, 12, 1910.	4.1	3
8	Controllable Valley Polarization and Strain Modulation in 2D $2H-VS_2/CuInP_2Se_6$ Heterostructures. <i>Nanomaterials</i> , 2022, 12, 2461.	4.1	3
9	Head-on collision of binary nanodroplets on rough surfaces: Impact velocity dependent spreading dynamics. <i>Applied Surface Science</i> , 2021, 541, 148426.	6.1	7
10	Long-Distance Ultrafast Spin Transfer over a Zigzag Carbon Chain Structure. <i>Physical Review Letters</i> , 2021, 126, 037402.	7.8	12
11	Mechano-Ferroelectric Coupling: Stabilization Enhancement and Polarization Switching in Bent $AgBiP_2Se_6$ Monolayer. <i>Nanoscale Horizons</i> , 2021, 6, 971-978.	8.0	2
12	First-principles study of the electronic and magnetic properties of Fe, Co, and Ni dimers adsorbed on polycyclic-aromatic-hydrocarbon molecules as well as the laser chirp effect on the ultrafast spin dynamics. <i>Physical Review B</i> , 2021, 103, .	3.2	4
13	Strain-promoted reversible spin transfer in rhombic graphene nanoflakes. <i>Applied Surface Science</i> , 2021, 558, 149770.	6.1	9
14	Partial slip contact problem between a transversely isotropic half-space of multi-ferroic composite medium and a spherical indenter. <i>Mechanics of Materials</i> , 2021, 161, 104018.	3.2	9
15	Theory of adhesive contact on multi-ferroic composite materials: Conical indenter. <i>International Journal of Solids and Structures</i> , 2021, 233, 111217.	2.7	18
16	Strain manipulation of the local spin flip on $Ni@B_{80}$ endohedral fullerene. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 25712-25719.	2.8	3
17	Stacking-Dependent Interlayer Magnetic Coupling in 2D $CrI_3/CrGeTe_3$ Nanostructures for Spintronics. <i>ACS Applied Nano Materials</i> , 2020, 3, 1282-1288.	5.0	47
18	Magneto-straintronics on a Co-coordinating metalloboronfullerene. <i>Physical Review B</i> , 2020, 102, .	3.2	8

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19	Multiferroic decorated Fe ₂ O ₃ monolayer predicted from first principles. <i>Nanoscale</i> , 2020, 12, 14847-14852.	5.6	24
20	Controlled growth of large-scale uniform 1T MoTe ₂ crystals with tunable thickness and their photodetector applications. <i>Nanoscale Horizons</i> , 2020, 5, 954-959.	8.0	22
21	Mechanical properties of CNT-reinforced Ni ₃ Al composites: the role of chirality, temperature, and volume fraction. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 205301.	1.8	5
22	Controllable dewetting transition on graphene-based nanotextured surfaces. <i>Applied Surface Science</i> , 2020, 520, 146374.	6.1	6
23	First-principles study of spin properties and laser-induced ultrafast spin dynamics in transition-metal oxide clusters		

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37	Prediction of fatigue crack growth retardation using a cyclic cohesive zone model. <i>Archive of Applied Mechanics</i> , 2017, 87, 1061-1075.	2.2	13
38	Laser-Induced Ultrafast Spin and Rotational Dynamics in Cobalt Trimer Cation. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 801-806.	1.8	1
39	Reversible ultrafast spin switching on Ni@B ₈₀ endohedral fullerene. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 673-680.	2.8	21
40	Synergistic effect of alloying elements doping and external pressure on the elastic property of Ni ₃ Al: A first-principles study. <i>AIP Advances</i> , 2015, 5, 077136.	1.3	5
41	Investigation of the strain-affected ultrafast spin switching on cobalt-doped carbon fullerenes. , 2015, , .		0
42	Strain assisted ultrafast spin switching on Co ₂ @C ₆₀ endohedral fullerenes. <i>Carbon</i> , 2015, 87, 153-162.	10.3	34
43	Strain Effect on the Ultrafast Spin Switching of Cobalt-Doped Carbon Fullerenes. <i>IEEE Transactions on Magnetism</i> , 2015, 51, 1-5.	2.1	5
44	Controllable spin-dynamics cycles and ERASE functionality on quasilinear molecular ions. <i>Physical Review B</i> , 2014, 89, .	3.2	20
45	Laser control of ultrafast spin dynamics on homodinuclear iron- and nickel-oxide clusters. <i>Physical Review B</i> , 2014, 89, .	3.2	22
46	λ -Process-Based Spin Manipulation in Magnetic Endohedral Fullerenes. <i>IEEE Transactions on Magnetism</i> , 2013, 49, 3195-3198.	2.1	11
47	Coherent ultrafast local spin-switching processes in chainlike nanostructures with two identical magnetic centers. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 4024-4029.	2.3	8
48	Local-Strain-Induced Charge Carrier Separation and Electronic Structure Modulation in Zigzag ZnO Nanotubes: Role of Built-In Polarization Electric Field. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2381-2385.	3.1	15
49	Ab Initio Theory for Ultrafast Magnetic Local Spin Flip on the Newly Synthesized Homodinuclear Complex [Ni ^{II} ₂ (μ -N ₄ Me ₂)(emb)]. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1774-1780.	2.5	14
50	Theory of laser-induced ultrafast magneto-optic spin flip and transfer in charged two-magnetic-center molecular ions: Role of bridging atoms. <i>Physical Review B</i> , 2011, 84, .	3.2	37
51	Local spin flip in two- and three-magnetic-center structures: A first-principles approach. <i>Journal of Physics: Conference Series</i> , 2010, 200, 042011.	0.4	1
52	First-principles calculation of monitoring spin states of small magnetic nanostructures with IR spectrum of CO. <i>Journal of Physics: Conference Series</i> , 2010, 200, 042014.	0.4	0
53	Charge carrier separation induced by intrinsic surface strain in pristine ZnO nanowires. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	21
54	Electric-Field- and Hydrogen-Passivation-Induced Band Modulations in Armchair ZnO Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1326-1330.	3.1	42

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55	Tuning Magnetism in Zigzag ZnO Nanoribbons by Transverse Electric Fields. ACS Nano, 2010, 4, 2124-2128.	14.6	52
56	First-principles investigation of technetium carbides and nitrides. Physical Review B, 2009, 79, .	3.2	56
57	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
58	Piezoelectricity of ZnO and its nanostructures. , 2008, , .		23
59	Local light-induced spin manipulation in two magnetic centre metallic chains. Journal Physics D: Applied Physics, 2008, 41, 164006.	2.8	47
60	Size-dependent piezoelectricity in zinc oxide nanofilms from first-principles calculations. Applied Physics Letters, 2007, 90, 033108.	3.3	45
61	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
62	First-principles study on ZnO nanoclusters with hexagonal prism structures. Applied Physics Letters, 2007, 90, 223102.	3.3	55
63	Fusion analyses of lifecycle safety and damage tolerance for cracked structures. International Journal of Fatigue, 2005, 27, 429-437.	5.7	5
64	Continuum Mechanics Simulation of Post-buckling of Single-Walled Nanotubes. International Journal of Nonlinear Sciences and Numerical Simulation, 2003, 4, .	1.0	6
65	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
66	Synergistic Size- and Surface Effects on Martensitic Transformation of Shape Memory Alloy Nanorods for Micro/Nanoelectro-Mechanical Systems. ACS Applied Nano Materials, 0, , .	5.0	0