

# Feng Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

131  
papers

9,301  
citations

31949

53  
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94  
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133  
all docs

133  
docs citations

133  
times ranked

8639  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Engineering of flat bands and Dirac bands in two-dimensional covalent organic frameworks (COFs): relationships among molecular orbital symmetry, lattice symmetry, and electronic-structure characteristics. <i>Materials Horizons</i> , 2022, 9, 88-98. | 6.4 | 33        |
| 2  | Fulde-Ferrell-Larkin-Ovchinnikov pairing induced by a Weyl nodal line in an Ising superconductor with a high critical field. <i>Physical Review B</i> , 2022, 105, .   | 1.1 | 4         |
| 3  | Structural Amorphization-Induced Topological Order. <i>Physical Review Letters</i> , 2022, 128, 056401.  | 2.9 | 26        |
| 4  | Orbital design of flat bands in non-line-graph lattices via line-graph wave functions. <i>Physical Review B</i> , 2022, 105, .   | 1.1 | 16        |
| 5  | High-temperature fractional quantum Hall state in the Floquet kagome flat band. <i>Physical Review B</i> , 2022, 105, .  | 1.1 | 7         |
| 6  | Excited quantum anomalous and spin Hall effect: dissociation of flat-bands-enabled excitonic insulator state. <i>Nanotechnology</i> , 2022, 33, 415001.  | 1.3 | 12        |
| 7  | Realization of an Antiferromagnetic Superatomic Graphene: Dirac Mott Insulator and Circular Dichroism Hall Effect. <i>Nano Letters</i> , 2021, 21, 230-235.  | 4.5 | 16        |
| 8  | Exotic Topological Bands and Quantum States in Metal-Organic and Covalent-Organic Frameworks. <i>Accounts of Chemical Research</i> , 2021, 54, 416-426.  | 7.6 | 82        |
| 9  | Prediction of intrinsic topological superconductivity in Mn-doped GeTe monolayer from first-principles. <i>Npj Computational Materials</i> , 2021, 7, .<br>Atomistic Mechanism Underlying the $Si$   | 3.5 | 15        |
| 10 | stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (stretchy="false"></mml:mo><mml:mn>7</mml:mn><mml:mo>Ä—</mml:mo><mml:mn>7</mml:mn><mml:mo>Tj ETQq0 0 0 rgBT /Ov                                       | 2.9 | 12        |
| 11 | Neural-Netwo Density-independent plasmons for terahertz-stable topological metamaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .  | 3.3 | 14        |
| 12 | Flat-Band-Enabled Triplet Excitonic Insulator in a Diatomic Kagome Lattice. <i>Physical Review Letters</i> , 2021, 126, 196403.  | 2.9 | 37        |
| 13 | Selective Substrate-Orbital-Filtering Effect to Realize the Large-Gap Quantum Spin Hall Effect. <i>Nano Letters</i> , 2021, 21, 5828-5833.   | 4.5 | 6         |
| 14 | Screening two-dimensional materials with topological flat bands. <i>Physical Review Materials</i> , 2021, 5, .   | 0.9 | 23        |
| 15 | Generic Orbital Design of Higher-Order Topological Quasicrystalline Insulators with Odd Five-Fold Rotation Symmetry. <i>Nano Letters</i> , 2021, 21, 7056-7062.  | 4.5 | 15        |
| 16 | Prediction of Majorana edge states from magnetized topological surface states. <i>Physical Review B</i> , 2021, 103, .   | 1.1 | 12        |
| 17 | Enhanced Berry Curvature Dipole and Persistent Spin Texture in the Bi(110) Monolayer. <i>Nano Letters</i> , 2021, 21, 9468-9475.   | 4.5 | 22        |
| 18 | Aperiodic topological crystalline insulators. <i>Physical Review B</i> , 2020, 101, .  | 1.1 | 13        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Folding Graphene into a Chern Insulator with Light Irradiation. Nano Letters, 2020, 20, 5860-5865.  | 4.5 | 4         |
| 20 | Magneto-Optical Detection of Photoinduced Magnetism <i>via</i> Chirality-Induced Spin Selectivity in 2D Chiral Hybrid Organic-Inorganic Perovskites. ACS Nano, 2020, 14, 10370-10375. | 7.3 | 61        |
| 21 | Higher-order quantum spin Hall effect in a photonic crystal. Nature Communications, 2020, 11, 3768.   | 5.8 | 136       |
| 22 | Fermionic Analogue of High Temperature Hawking Radiation in Black Phosphorus. Chinese Physics Letters, 2020, 37, 067101.  | 1.3 | 18        |
| 23 | Honeycomb-Lattice Mott Insulator on Tantalum Disulphide. Physical Review Letters, 2020, 125, 096403.  | 2.9 | 8         |
| 24 | Giant intrinsic circular dichroism of enantiomorphous flat Chern bands and flatband devices. Physical Review B, 2020, 102, .  | 1.1 | 21        |
| 25 | Na-functionalized $\text{Te}_2\text{Se}_2$ monolayer: Suppressed charge ordering and electric field tuned topological phase transition. Physical Review B, 2020, 102, .               | 1.1 | 11        |
| 26 | Electronic structures of a diagonally striped lattice: Multiple $N$ -fold degenerate flat bands. Physical Review B, 2020, 102, .  | 1.1 | 11        |
| 27 | $\pi$ -Orbital Yin-Yang Kagome bands in anilato-based metal-organic frameworks. Physical Chemistry Chemical Physics, 2020, 22, 25827-25832.   | 1.3 | 13        |
| 28 | Magnetic Weyl semimetals with diamond structure realized in spinel compounds. Physical Review B, 2020, 101, .   | 1.1 | 27        |
| 29 | Robustness of topological insulating phase against vacancy, vacancy cluster, and grain boundary bulk defects. Physical Review B, 2020, 101, .   | 1.1 | 23        |
| 30 | Doping-induced topological phase transition in Bi: The role of quantum electronic stress. Physical Review B, 2020, 101, .   | 1.1 | 11        |
| 31 | Topological Band Engineering of Lieb Lattice in Phthalocyanine-Based Metal-Organic Frameworks. Nano Letters, 2020, 20, 1959-1966.   | 4.5 | 43        |
| 32 | Theory of Epitaxial Growth of Borophene on Layered Electride: Thermodynamic Stability and Kinetic Pathway. Journal of Physical Chemistry C, 2020, 124, 6063-6069.                     | 1.5 | 7         |
| 33 | A Unified View of Topological Phase Transition in Band Theory. Research, 2020, 2020, 7832610.   | 2.8 | 17        |
| 34 | Inversion/Mirror Symmetry-Protected Dirac Cones in Distorted Ruby Lattices. Chinese Physics Letters, 2020, 37, 127102.  | 1.3 | 2         |
| 35 | Unidirectional Spin-Orbit Interaction Induced by the Line Defect in Monolayer Transition Metal Dichalcogenides for High-Performance Devices. Nano Letters, 2019, 19, 6005-6012.       | 4.5 | 21        |
| 36 | Comparison of quantum spin Hall states in quasicrystals and crystals. Physical Review B, 2019, 100, .   | 1.1 | 27        |

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|----|--|-----|-----------|
| 37 | Anomalous Dirac Plasmons in 1D Topological Electrideres. Physical Review Letters, 2019, 123, 206402.   | 2.9 | 33        |
| 38 | Enhancing superconductivity in bulk $\text{Bi}_2\text{Pd}$ by negative pressure induced by quantum electronic stress. Physical Review B, 2019, 100, .            | 1.1 | 4         |
| 39 | Topological edge states in the Su-Schrieffer-Heeger model. Physical Review B, 2019, 100, .   | 1.1 | 86        |
| 40 | Dichotomy between frustrated local spins and conjugated electrons in a two-dimensional metal-organic framework. Nanoscale, 2019, 11, 955-961.                    | 2.8 | 34        |
| 41 | A 3D percolation model for multicomponent nanocarbon composites: the critical role of nematic transition. Nanotechnology, 2019, 30, 185302.                      | 1.3 | 12        |
| 42 | Weyl points created by a three-dimensional flat band. Physical Review B, 2019, 99, .   | 1.1 | 23        |
| 43 | A Lieb-like lattice in a covalent-organic framework and its Stoner ferromagnetism. Nature Communications, 2019, 10, 2207.  | 5.8 | 67        |
| 44 | Topological superconducting phase in high-Tc superconductor $\text{MgB}_2$ with Dirac nodal-line fermions. Npj Computational Materials, 2019, 5, .               | 3.5 | 52        |
| 45 | Kagome bands disguised in a coloring-triangle lattice. Physical Review B, 2019, 99, .  | 1.1 | 42        |
| 46 | Topological band evolution between Lieb and kagome lattices. Physical Review B, 2019, 99, .  | 1.1 | 66        |
| 47 | A 2D nonsymmorphic Dirac semimetal in a chemically modified group-VA monolayer with a black phosphorene structure. Nanoscale, 2019, 11, 7256-7262.               | 2.8 | 22        |
| 48 | Helical Topological Edge States in a Quadrupole Phase. Physical Review Letters, 2019, 122, 086804.   | 2.9 | 133       |
| 49 | Topological edge states induced by the Zak phase in $A_3B$ monolayers. Physical Review B, 2019, 99, .  | 1.1 | 12        |
| 50 | Orbital design of topological insulators from two-dimensional semiconductors. Nanoscale, 2019, 11, 22743-22747.  | 2.8 | 11        |
| 51 | Topological Electride $\text{Y}_2\text{C}$ . Nano Letters, 2018, 18, 1972-1977.  | 4.5 | 67        |
| 52 | Pressure-induced organic topological nodal-line semimetal in the three-dimensional molecular crystal $\text{Pd}(\text{dtdt})_2$ . Physical Review B, 2018, 97, . | 1.1 | 21        |
| 53 | Light-Induced Type-II Band Inversion and Quantum Anomalous Hall State in Monolayer $\text{FeSe}$ . Physical Review Letters, 2018, 120, 156406.                   | 2.9 | 35        |
| 54 | Monte Carlo simulations of electrical percolation in multicomponent thin films with nanofillers. Nanotechnology, 2018, 29, 075401.                               | 1.3 | 41        |

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|----|---|-----|-----------|
| 55 | Kane Fermion in a Two-Dimensional $\pi$ -Conjugated Bis(iminothiolato)nickel Monolayer. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 614-619.  | 2.1 | 25        |
| 56 | Formation of a large gap quantum spin Hall phase in a 2D trigonal lattice with three p-orbitals. <i>Nanoscale</i> , 2018, 10, 5496-5502.  | 2.8 | 13        |
| 57 | Prediction of large gap flat Chern band in a two-dimensional metal-organic framework. <i>Applied Physics Letters</i> , 2018, 112, .   | 1.5 | 37        |
| 58 | Prediction of two-dimensional nodal-line semimetals in a carbon nitride covalent network. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11252-11259.   | 5.2 | 101       |
| 59 | Organic Topological Insulators. <i>Materials and Energy</i> , 2018, , 201-224.  | 2.5 | 2         |
| 60 | Cyano-Based Materials with Giant Optical Anisotropy and Second Harmonic-Generation Effect. <i>Inorganic Chemistry</i> , 2018, 57, 15001-15008.  | 1.9 | 16        |
| 61 | Theory of spin Bott index for quantum spin Hall states in nonperiodic systems. <i>Physical Review B</i> , 2018, 98, .   | 1.1 | 68        |
| 62 | Quantum Spin Hall Effect and Spin Bott Index in a Quasicrystal Lattice. <i>Physical Review Letters</i> , 2018, 121, 126401.   | 2.9 | 99        |
| 63 | Intrinsic quantum anomalous hall effect in a two-dimensional anilato-based lattice. <i>Nanoscale</i> , 2018, 10, 11901-11906.   | 2.8 | 29        |
| 64 | Two Novel Deep-Ultraviolet Nonlinear Optical Crystals with Shorter Phase-Matching Second Harmonic Generation than $\text{KBe}_2\text{BO}_3\text{F}_2$ : A First-Principles Prediction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800276. | 1.2 | 15        |
| 65 | Ubiquitous Spin-Orbit Coupling in a Screw Dislocation with High Spin Coherency. <i>Physical Review Letters</i> , 2018, 121, 066401.   | 2.9 | 29        |
| 66 | Band gap reduction in van der Waals layered 2D materials <i>via</i> a de-charge transfer mechanism. <i>Nanoscale</i> , 2018, 10, 16759-16764.   | 2.8 | 25        |
| 67 | Tunable topological semimetal states with ultraflat nodal rings in strained YN. <i>Physical Review B</i> , 2018, 98, .  | 1.1 | 21        |
| 68 | Removal of A-Site Alkali and Alkaline Earth Metal Cations in $\text{KBe}_2\text{BO}_3\text{F}_2$ -Type Layered Structures To Enhance the Deep-Ultraviolet Nonlinear Optical Capability. <i>Inorganic Chemistry</i> , 2018, 57, 11146-11156.                       | 1.9 | 37        |
| 69 | Photoinduced Nonequilibrium Topological States in Strained Black Phosphorus. <i>Physical Review Letters</i> , 2018, 120, 237403.  | 2.9 | 80        |
| 70 | Novel Topological Phase with a Zero Berry Curvature. <i>Physical Review Letters</i> , 2017, 118, 076803.  | 2.9 | 288       |
| 71 | Pulse laser induced graphite-to-diamond phase transition: the role of quantum electronic stress. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.  | 2.0 | 6         |
| 72 | Bending strain engineering in quantum spin hall system for controlling spin currents. <i>Nature Communications</i> , 2017, 8, 15850.  | 5.8 | 23        |

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|----|--|------|-----------|
| 73 | Computational design of two-dimensional topological materials. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2017, 7, e1304.   | 6.2  | 38        |
| 74 | Bis(aminothiolato)nickel nanosheet as a redox switch for conductivity and an electrocatalyst for the hydrogen evolution reaction. Chemical Science, 2017, 8, 8078-8085.                    | 3.7  | 120       |
| 75 | Atomically Abrupt Topological p-n Junction. ACS Nano, 2017, 11, 9671-9677.   | 7.3  | 26        |
| 76 | Creation of half-metallic $\pi$ -orbital Dirac fermion with superlight elements in orbital-designed molecular lattice. Physical Review B, 2017, 96, .                                      | 1.1  | 10        |
| 77 | Theoretical Discovery of a Superconducting Two-Dimensional Metal-Organic Framework. Nano Letters, 2017, 17, 6166-6170.   | 4.5  | 86        |
| 78 | Topological nodal-line semimetal in nonsymmorphic $C_{2v}$ -phase $Ag_2S$ . Physical Review B, 2017, 96, .   | 1.1  | 29        |
| 79 | Tensile strained gray tin: Dirac semimetal for observing negative magnetoresistance with Shubnikov-de Haas oscillations. Physical Review B, 2017, 95, .                                    | 1.1  | 45        |
| 80 | Topological edge states in a high-temperature superconductor FeSe/SrTiO <sub>3</sub> (001) film. Nature Materials, 2016, 15, 968-973.  | 13.3 | 145       |
| 81 | Quantum spin Hall phase in 2D trigonal lattice. Nature Communications, 2016, 7, 12746.   | 5.8  | 43        |
| 82 | Large-Gap Quantum Spin Hall State in MXenes: $d$ -Band Topological Order in a Triangular Lattice. Nano Letters, 2016, 16, 6584-6591.   | 4.5  | 193       |
| 83 | Interface orbital engineering of large-gap topological states: Decorating gold on a Si(111) surface. Physical Review B, 2016, 93, .  | 1.1  | 32        |
| 84 | Tunable topological states in electron-doped HTT-Pt. Physical Review B, 2016, 93, .  | 1.1  | 38        |
| 85 | Electronic structure evolution of single bilayer Bi(111) film on 3D topological insulator Bi <sub>2</sub> Se <sub>3</sub> surfaces. Journal of Physics Condensed Matter, 2016, 28, 255501. | 0.7  | 14        |
| 86 | Formation of Ideal Rashba States on Layered Semiconductor Surfaces Steered by Strain Engineering. Nano Letters, 2016, 16, 404-409.   | 4.5  | 44        |
| 87 | Intrinsic Two-Dimensional Organic Topological Insulators in Metal-Dicyanoanthracene Lattices. Nano Letters, 2016, 16, 2072-2075.   | 4.5  | 81        |
| 88 | Formation of a quantum spin Hall state on a Ge(111) surface. Nanotechnology, 2016, 27, 095703.   | 1.3  | 7         |
| 89 | Engineering Electronic Structure of a Two-Dimensional Topological Insulator Bi(111) Bilayer on Sb Nanofilms by Quantum Confinement Effect. ACS Nano, 2016, 10, 3859-3864.                  | 7.3  | 29        |
| 90 | Strain engineering of graphene: a review. Nanoscale, 2016, 8, 3207-3217.   | 2.8  | 453       |

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|-----|---|-----|-----------|
| 91  | First-principles study of the organometallic $S$ compound Cu(1,3-bdc). Physical Review B, 2015, 92, .   |     |           |
| 92  | Alloy Engineering of Defect Properties in Semiconductors: Suppression of Deep Levels in Transition-Metal Dichalcogenides. Physical Review Letters, 2015, 115, 126806.   | 2.9 | 81        |
| 93  | Quantum Hooke's Law to Classify Pulse Laser Induced Ultrafast Melting. Scientific Reports, 2015, 5, 8212.   | 1.6 | 8         |
| 94  | Highly Anisotropic Dirac Fermions in Square Graphynes. Journal of Physical Chemistry Letters, 2015, 6, 2959-2962.   | 2.1 | 75        |
| 95  | Self-Assembled Si(111) Surface States: 2D Dirac Material for THz Plasmonics. Physical Review Letters, 2015, 115, 026803.  | 2.9 | 18        |
| 96  | Half metal in two-dimensional hexagonal organometallic framework. Nanoscale Research Letters, 2014, 9, 2414.  | 3.1 | 30        |
| 97  | Exotic electronic states in the world of flat bands: From theory to material. Chinese Physics B, 2014, 23, 077308.  | 0.7 | 153       |
| 98  | $s^2d$ Kagome Band in a Hexagonal Lattice. Physical Review Letters, 2014, 113, 236802.  | 3.1 | 68        |
| 99  | Tuning Topological Edge States of Bi(111) Bilayer Film by Edge Adsorption. Nano Letters, 2014, 14, 2879-2883.   | 4.5 | 91        |
| 100 | Epitaxial growth of large-gap quantum spin Hall insulator on semiconductor surface. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14378-14381.                  | 3.3 | 205       |
| 101 | Redox Control and High Conductivity of Nickel Bis(dithiolene) Complex Nanosheet: A Potential Organic Two-Dimensional Topological Insulator. Journal of the American Chemical Society, 2014, 136, 14357-14360. | 6.6 | 395       |
| 102 | Formation of quantum spin Hall state on Si surface and energy gap scaling with strength of spin orbit coupling. Scientific Reports, 2014, 4, 7102.  | 1.6 | 75        |
| 103 | Spatially Separated Spin Carriers in Spin-Semiconducting Graphene Nanoribbons. Physical Review Letters, 2013, 111, 096803.  | 2.9 | 119       |
| 104 | Organic topological insulators in organometallic lattices. Nature Communications, 2013, 4, 1471.  | 5.8 | 238       |
| 105 | Creation of helical Dirac fermions by interfacing two gapped systems of ordinary fermions. Nature Communications, 2013, 4, 1384.  | 5.8 | 81        |
| 106 | Prediction of a Two-Dimensional Organic Topological Insulator. Nano Letters, 2013, 13, 2842-2845.   | 4.5 | 292       |
| 107 | Quantum Anomalous Hall Effect in 2D Organic Topological Insulators. Physical Review Letters, 2013, 110, 196801.   | 2.9 | 292       |
| 108 | First-Principles Calculations on the Effect of Doping and Biaxial Tensile Strain on Electron-Phonon Coupling in Graphene. Physical Review Letters, 2013, 111, 196802.   | 2.9 | 197       |

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|-----|---|-----|-----------|
| 109 | Quasiparticle dynamics in reshaped helical Dirac cone of topological insulators. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2758-2762. | 3.3 | 86        |
| 110 | Strain-Engineered Surface Transport in Si(001): Complete Isolation of the Surface State via Tensile Strain. Physical Review Letters, 2013, 111, 246801.                                 | 2.9 | 27        |
| 111 | Flat Chern Band in a Two-Dimensional Organometallic Framework. Physical Review Letters, 2013, 110, 106804.  | 2.9 | 191       |
| 112 | Electronic Strengthening of Graphene by Charge Doping. Physical Review Letters, 2012, 109, 226802.  | 2.9 | 104       |
| 113 | Fractal Landau-Level Spectra in Twisted Bilayer Graphene. Nano Letters, 2012, 12, 3833-3838.  | 4.5 | 85        |
| 114 | Quantum Electronic Stress: Density-Functional-Theory Formulation and Physical Manifestation. Physical Review Letters, 2012, 109, 055501.  | 2.9 | 55        |
| 115 | Interplay between quantum size effect and strain effect on growth of nanoscale metal thin films. Physical Review B, 2012, 86, .   | 1.1 | 22        |
| 116 | Spatial and Energy Distribution of Topological Edge States in Single Bi(111) Bilayer. Physical Review Letters, 2012, 109, 016801.   | 2.9 | 293       |
| 117 | Stable Nontrivial $Z_2$ Topology in Ultrathin Bi (111) Films: A First-Principles Study. Physical Review Letters, 2011, 107, 136805.   | 2.9 | 292       |
| 118 | Maximum asymmetry in strain induced mechanical instability of graphene: Compression versus tension. Applied Physics Letters, 2011, 99, .  | 1.5 | 79        |
| 119 | Electronic Phase Diagram of Single-Element Silicon $\epsilon$ -Strain $\epsilon$ -Superlattices. Physical Review Letters, 2010, 105, 016802.  | 2.9 | 57        |
| 120 | Band-gap scaling of graphene nanohole superlattices. Physical Review B, 2009, 80, .   | 1.1 | 121       |
| 121 | Collective magnetic behavior of graphene nanohole superlattices. Nano Research, 2008, 1, 56-62.   | 5.8 | 94        |
| 122 | A unified geometric rule for designing nanomagnetism in graphene. Nano Research, 2008, 1, 497-501.  | 5.8 | 81        |
| 123 | Suppression of spin polarization in graphene nanoribbons by edge defects and impurities. Physical Review B, 2008, 77, .   | 1.1 | 178       |
| 124 | Intrinsic Current $\sim$ Voltage Characteristics of Graphene Nanoribbon Transistors and Effect of Edge Doping. Nano Letters, 2007, 7, 1469-1473.  | 4.5 | 548       |
| 125 | Quantum Size Effect on Adatom Surface Diffusion. Physical Review Letters, 2006, 97, 266102.   | 2.9 | 72        |
| 126 | Relative stability of Si surfaces: A first-principles study. Surface Science, 2005, 588, 61-70.   | 0.8 | 62        |



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|-----|--|-----|-----------|
| 127 | Geometric Constant Defining Shape Transitions of Carbon Nanotubes under Pressure. Physical Review Letters, 2004, 92, 105501.                           | 2.9 | 103       |
| 128 | Metal-to-Semiconductor Transition in Squashed Armchair Carbon Nanotubes. Physical Review Letters, 2003, 90, 156601.                                    | 2.9 | 138       |
| 129 | Self-Organized Nanoscale Pattern Formation on Vicinal Si(111) Surfaces via a Two-Stage Faceting Transition. Physical Review Letters, 2002, 88, 096105. | 2.9 | 82        |
| 130 | Interplay of Stress, Structure, and Stoichiometry in Ge-Covered Si(001). Physical Review Letters, 1996, 76, 3156-3159.                                 | 2.9 | 116       |
| 131 | Quantum size effect on the magnetism of finite systems. Physical Review B, 1990, 42, 976-979.  | 1.1 | 38        |