Changgan Zeng

List of Publications by Year
in descending order

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69 papers	3,167 citations	186265 28 h-index	149698 56 g-index
70 all docs	70 docs citations	70 times ranked	5469 citing authors

#	Article	IF	Citations
1	Flat-Band-Induced Anomalous Anisotropic Charge Transport and Orbital Magnetism in Kagome Metal CoSn. Physical Review Letters, 2022, 128, 096601.	7.8	22
2	Topological Field-Effect Transistor Based on Quasi-Two-Dimensional Tellurium Flakes. Physical Review Applied, 2022, 17, .	3.8	1
3	Zero-Bias Conductance Peaks Effectively Tuned by Gating-Controlled Rashba Spin-Orbit Coupling. Physical Review Letters, 2021, 126, 057701.	7.8	6
4	Highly Efficient Nonvolatile Magnetization Switching and Multiâ€Level States by Current in Single Van der Waals Topological Ferromagnet Fe₃GeTe₂. Advanced Functional Materials, 2021, 31, 2105992.	14.9	19
5	Spontaneous Folding Growth of Graphene on h-BN. Nano Letters, 2021, 21, 2033-2039.	9.1	11
6	Dirac fermions in antiferromagnetic FeSn kagome lattices with combined space inversion and time-reversal symmetry. Physical Review B, 2020, 102, .	3.2	52
7	Fabricating 3D Metastructures by Simultaneous Modulation of Flexible Resist Stencils and Basal Molds. Advanced Materials, 2020, 32, 2002570.	21.0	3
8	Magnetotransport signatures of Weyl physics and discrete scale invariance in the elemental semiconductor tellurium. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11337-11343.	7.1	42
9	Tuning the Kondo effect via gating-controlled orbital selection in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn><m interfacial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>d</mml:mi></mml:math> -electron system. Physical Review B, 2020, 101, .	3.2	6
10	Room-Temperature Anisotropic Plasma Mirror and Polarization-Controlled Optical Switch Based on Type-II Weyl Semimetal WP2. Physical Review Applied, 2020, 13, .	3.8	4
11	Frictional Drag Effect between Massless and Massive Fermions in Single-Layer/Bilayer Graphene Heterostructures. Nano Letters, 2020, 20, 1396-1402.	9.1	6
12	MoirÃ© engineering of electronic phenomena in correlated oxides. Nature Physics, 2020, 16, 631-635.	16.7	40
13	Substantially enhanced robustness of quantum Hall effect in graphene on LaAlO3/SrTiO3 heterostructure. Applied Physics Express, 2020, 13, 035001.	2.4	2
14	Gate-tunable anomalous transverse voltage at the superconducting LaAlO3/SrTiO3 interface. Applied Physics Letters, 2019, 115, 061603.	3.3	2
15	Mixture domain states in PbTiO3 film with potentials for functional application. Applied Physics Letters, 2019, 114, .	3.3	2
16	Modulating the Electrical Transport in the Two-Dimensional Electron Gas at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LaAlO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ Heterostructures by Interfacial Flexoelectricity. Physical Review Letters, 2019, 122, 257601.	7.8	72
17	Shear strain-induced anisotropic domain evolution in mixed-phase BiFeO3 epitaxial films. AIP Advances, 2019, 9, .	1.3	1
18	Predictive design of intrinsic half-metallicity in zigzag tungsten dichalcogenide nanoribbons. Physical Review B, 2019, 100, .	3.2	9

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19	Coexistence of many-body effects at the LaAlO3/SrTiO3 interface. Japanese Journal of Applied Physics, 2019, 58, 120913.	1.5	0
20	Atomically flat and thermally stable graphene on Si(111) with preserved intrinsic electronic properties. Nanoscale, 2018, 10, 8377-8384.	5.6	4
21	Quantum Control of Graphene Plasmon Excitation and Propagation at Heaviside Potential Steps. Nano Letters, 2018, 18, 1373-1378.	9.1	10
22	Gate Switching of Ultrafast Photoluminescence in Graphene. Nano Letters, 2018, 18, 7985-7990.	9.1	23
23	Topological zero-line modes in folded bilayer graphene. Physical Review B, 2018, 98, .	3.2	16
24	Gate-tunable third-order nonlinear optical response of massless Dirac fermions in graphene. Nature Photonics, 2018, 12, 430-436.	31.4	194
25	Nano-imaging of an edge-excited plasmon mode in graphene. Nanoscale, 2018, 10, 16314-16320.	5.6	9
26	Tuning Band Gap and Work Function Modulations in Monolayer hBN/Cu(111) Heterostructures with MoirÃ© Patterns. ACS Nano, 2018, 12, 9355-9362.	14.6	33
27	Flatbands and Emergent Ferromagnetic Ordering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Kagome Lattices. Physical Review Letters, 2018, 121, 096401.	7.8	221
28	Manipulation of electronic phases in Au-nanodots-decorated manganite films by laser illumination. Physical Review Materials, 2018, 2, .	2.4	2
29	Quantum Percolation and Magnetic Nanodroplet States in Electronically Phase-Separated Manganite Nanowires. Nano Letters, 2017, 17, 1461-1466.	9.1	9
30	A Kinetic Pathway toward High-Density Ordered N Doping of Epitaxial Graphene on Cu(111) Using C₅NCl₅ Precursors. Journal of the American Chemical Society, 2017, 139, 7196-7202.	13.7	16
31	Optical Manipulation of Rashba Spinâ€“Orbit Coupling at SrTiO₃-Based Oxide Interfaces. Nano Letters, 2017, 17, 6534-6539.	9.1	30
32	Substantially Enhancing Quantum Coherence of Electrons in Graphene via Electron-Plasmon Coupling. Physical Review Letters, 2017, 119, 156803.	7.8	6
33	Bandgap renormalization and work function tuning in MoSe2/hBN/Ru(0001) heterostructures. Nature Communications, 2016, 7, 13843.	12.8	55
34	Magnetoresistivity plateau of graphene in proximity to superconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NbSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2016, 94, .	3.2	1
35	Photoconductivity of Graphene in Proximity to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>La</mml:mi><mml:msub><mml:mrow><mml:mi>AlO</mml:mi></mml:mrow><mml:mrow><mml:mn></mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Phenomenon and Photosensor Applications. Physical Review Applied, 2016, 6, .	3.8	5
36	Dual role of Fe dopants in enhancing stability and charge transfer in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:msub><mml:mi></mml:mi><mml:mn></mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2016, 93, .	3.2	15

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37	Carbon Tetragons as Definitive Spin Switches in Narrow Zigzag Graphene Nanoribbons. Physical Review Letters, 2016, 116, 026802.	7.8	51
38	Interlayer Transition and Infrared Photodetection in Atomically Thin Type-II MoTe₂/MoS₂ van der Waals Heterostructures. ACS Nano, 2016, 10, 3852-3858.	14.6	453
39	Nonmonotonically tunable Rashba spin-orbit coupling by multiple-band filling control in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">SrTiO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math>-based interfacial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>d</mml:mi></mml:math>-electron gases. Physical Review B, 2015, 92, .	3.2	68
40	Equivalence of electronic and mechanical stresses in structural phase stabilization: A case study of indium wires on Si(111). Physical Review B, 2015, 91, .	3.2	10
41	Single-valley engineering in graphene superlattices. Physical Review B, 2015, 91, .	3.2	57
42	Highly anisotropic hybridization, dispersion, damping, and propagation of quantum plasmons in graphene superlattices. Physical Review B, 2014, 90, .	3.2	3
43	Graphene in proximity to magnetic insulating LaMnO3. Applied Physics Letters, 2014, 105, 133111.	3.3	13
44	Controlled Ambipolar Tuning and Electronic Superlattice Fabrication of Graphene via Optical Gating. Advanced Materials, 2014, 26, 3735-3740.	21.0	26
45	Giant intrinsic tunnel magnetoresistance in manganite thin films etched with antidot arrays. Applied Physics Letters, 2014, 104, 082414.	3.3	6
46	Correlating interfacial octahedral rotations with magnetism in (LaMnO3+Î´)N/(SrTiO3)N superlattices. Nature Communications, 2014, 5, 4283.	12.8	103
47	Stabilization and Manipulation of Electronically Phase-Separated Ground States in Defective Indium Atom Wires on Silicon. Physical Review Letters, 2014, 113, 196802.	7.8	22
48	Giant photovoltaic effects driven by residual polar field within unit-cell-scale LaAlO3 films on SrTiO3. Scientific Reports, 2013, 3, 1975.	3.3	44
49	Drastic reduction in the growth temperature of graphene on copper via enhanced London dispersion force. Scientific Reports, 2013, 3, 1925.	3.3	62
50	Magnetoresistance of single-crystalline La0.67Sr0.33MnO3/MgO nanorod arrays. Solid State Communications, 2013, 171, 46-49.	1.9	5
51	Fabrication and magnetic properties of single-crystalline La0.33Pr0.34Ca0.33MnO3/MgO nanowires. Applied Physics Letters, 2013, 103, .	3.3	12
52	Symmetry-Dependent Plasmonic Properties of Three-Dimensional Hybrid Metallic Nanostructure Arrays. Journal of Physical Chemistry C, 2012, 116, 17781-17786.	3.1	9
53	Graphene Thickness Control via Gas-Phase Dynamics in Chemical Vapor Deposition. Journal of Physical Chemistry C, 2012, 116, 10557-10562.	3.1	70
54	Transport properties of topological insulator Bi2Se3 thin films in tilted magnetic fields. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 46, 236-240.	2.7	7

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55	Low-Temperature Growth of Graphene by Chemical Vapor Deposition Using Solid and Liquid Carbon Sources. ACS Nano, 2011, 5, 3385-3390.	14.6	353
56	ZhangetÂal.Reply:. Physical Review Letters, 2011, 107, .	7.8	6
57	Templated growth of quasi-one dimensional molecular structures on Si(111)-(4Ã—1)â€“In surface. Surface Science, 2009, 603, L70-L73.	1.9	7
58	Dilute magnetic insulator withT_cabove room temperature based on Gd implanted MgO. Journal Physics D: Applied Physics, 2009, 42, 155003.	2.8	6
59	Charge-order fluctuations in one-dimensional silicides. Nature Materials, 2008, 7, 539-542.	27.5	70
60	Epitaxial Stabilization of Ferromagnetism in the Nanophase of FeGe. Physical Review Letters, 2006, 96, 127201.	7.8	19
61	Spin polarization and electronic structure of ferromagnetic Mn5Ge3 epilayers. Physica Status Solidi (B): Basic Research, 2005, 242, R67-R69.	1.5	66
62	Low-Temperature Orientationally Ordered Structures of Two-Dimensional C60. Journal of the American Chemical Society, 2003, 125, 169-172.	13.7	53
63	Epitaxial ferromagnetic Mn5Ge3 on Ge(111). Applied Physics Letters, 2003, 83, 5002-5004.	3.3	173
64	First-Principles Simulation of Scanning Tunneling Microscopy Images of Individual Molecules in Alkanethiol Self-Assembled Monolayers on Au(111). Journal of Physical Chemistry B, 2003, 107, 972-984.	2.6	28
65	What can a scanning tunneling microscope image do for the insulating alkanethiol molecules on Au(111) substrates?. Journal of Chemical Physics, 2002, 117, 851-856.	3.0	61
66	Self-assembly of one-dimensional molecular and atomic chains using striped alkanethiol structures as templates. Applied Physics Letters, 2001, 79, 1685-1687.	3.3	36
67	Negative differential-resistance device involving two C60 molecules. Applied Physics Letters, 2000, 77, 3595-3597.	3.3	136
68	Identifying Molecular Orientation of IndividualC60on aSi(111)â˜'(7Ã—7)Surface. Physical Review Letters, 1999, 83, 3001-3004.	7.8	135
69	Scanning tunneling spectroscopy of individual C60 molecules adsorbed on Si(111)-7Ã—7 surface. Surface Science, 1999, 442, L1024-L1028.	1.9	42