

# Changgan Zeng

## List of Publications by Year in descending order

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69  
papers

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citations

186265

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149698

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70  
docs citations

70  
times ranked

5469  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interlayer Transition and Infrared Photodetection in Atomically Thin Type-II MoTe <sub>2</sub> /MoS <sub>2</sub> van der Waals Heterostructures. ACS Nano, 2016, 10, 3852-3858.	14.6	453
2	Low-Temperature Growth of Graphene by Chemical Vapor Deposition Using Solid and Liquid Carbon Sources. ACS Nano, 2011, 5, 3385-3390.	14.6	353
3	Flatbands and Emergent Ferromagnetic Ordering in $\text{Fe}_3\text{Sn}_2$ Kagome Lattices. Physical Review Letters, 2018, 121, 096401.	7.8	221
4	Gate-tunable third-order nonlinear optical response of massless Dirac fermions in graphene. Nature Photonics, 2018, 12, 430-436.	31.4	194
5	Epitaxial ferromagnetic Mn <sub>5</sub> Ge <sub>3</sub> on Ge(111). Applied Physics Letters, 2003, 83, 5002-5004.	3.3	173
6	Negative differential-resistance device involving two C60 molecules. Applied Physics Letters, 2000, 77, 3595-3597.	3.3	136
7	Identifying Molecular Orientation of Individual C60 on a Si(111) $\sqrt{7}\times\sqrt{7}$ Surface. Physical Review Letters, 1999, 83, 3001-3004.	7.8	135
8	Correlating interfacial octahedral rotations with magnetism in (LaMnO <sub>3</sub> ) <sub>N</sub> /(SrTiO <sub>3</sub> ) <sub>N</sub> superlattices. Nature Communications, 2014, 5, 4283.	12.8	103
9	Modulating the Electrical Transport in the Two-Dimensional Electron Gas at $\text{LaAlO}_3/\text{SrTiO}_3$ Heterostructures by Interfacial Flexoelectricity. Physical Review Letters, 2019, 122, 257601.	7.8	72
10	Charge-order fluctuations in one-dimensional silicides. Nature Materials, 2008, 7, 539-542.	27.5	70
11	Graphene Thickness Control via Gas-Phase Dynamics in Chemical Vapor Deposition. Journal of Physical Chemistry C, 2012, 116, 10557-10562.	3.1	70
12	Nonmonotonically tunable Rashba spin-orbit coupling by multiple-band filling control in $\text{SrTiO}_3$ -based interfacial $d$ -electron gases. Physical Review B, 2015, 92, .	3.2	68
13	Spin polarization and electronic structure of ferromagnetic Mn <sub>5</sub> Ge <sub>3</sub> epilayers. Physica Status Solidi (B): Basic Research, 2005, 242, R67-R69.	1.5	66
14	Drastic reduction in the growth temperature of graphene on copper via enhanced London dispersion force. Scientific Reports, 2013, 3, 1925.	3.3	62
15	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
16	Single-valley engineering in graphene superlattices. Physical Review B, 2015, 91, .	3.2	57
17	Bandgap renormalization and work function tuning in MoSe <sub>2</sub> /hBN/Ru(0001) heterostructures. Nature Communications, 2016, 7, 13843.	12.8	55
18	Low-Temperature Orientationally Ordered Structures of Two-Dimensional C60. Journal of the American Chemical Society, 2003, 125, 169-172.	13.7	53

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19	Dirac fermions in antiferromagnetic FeSn kagome lattices with combined space inversion and time-reversal symmetry. <i>Physical Review B</i> , 2020, 102, .	3.2	52
20	Carbon Tetragons as Definitive Spin Switches in Narrow Zigzag Graphene Nanoribbons. <i>Physical Review Letters</i> , 2016, 116, 026802.	7.8	51
21	Giant photovoltaic effects driven by residual polar field within unit-cell-scale LaAlO <sub>3</sub> films on SrTiO <sub>3</sub> . <i>Scientific Reports</i> , 2013, 3, 1975.	3.3	44
22	Scanning tunneling spectroscopy of individual C <sub>60</sub> molecules adsorbed on Si(111)-7 $\times$ 7 surface. <i>Surface Science</i> , 1999, 442, L1024-L1028.	1.9	42
23	Magnetotransport signatures of Weyl physics and discrete scale invariance in the elemental semiconductor tellurium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11337-11343.	7.1	42
24	Moiré engineering of electronic phenomena in correlated oxides. <i>Nature Physics</i> , 2020, 16, 631-635.	16.7	40
25	Self-assembly of one-dimensional molecular and atomic chains using striped alkanethiol structures as templates. <i>Applied Physics Letters</i> , 2001, 79, 1685-1687.	3.3	36
26	Tuning Band Gap and Work Function Modulations in Monolayer hBN/Cu(111) Heterostructures with Moiré Patterns. <i>ACS Nano</i> , 2018, 12, 9355-9362.	14.6	33
27	Optical Manipulation of Rashba Spin-Orbit Coupling at SrTiO <sub>3</sub> -Based Oxide Interfaces. <i>Nano Letters</i> , 2017, 17, 6534-6539.	9.1	30
28	First-Principles Simulation of Scanning Tunneling Microscopy Images of Individual Molecules in Alkanethiol Self-Assembled Monolayers on Au(111). <i>Journal of Physical Chemistry B</i> , 2003, 107, 972-984.	2.6	28
29	Controlled Ambipolar Tuning and Electronic Superlattice Fabrication of Graphene via Optical Gating. <i>Advanced Materials</i> , 2014, 26, 3735-3740.	21.0	26
30	Gate Switching of Ultrafast Photoluminescence in Graphene. <i>Nano Letters</i> , 2018, 18, 7985-7990.	9.1	23
31	Stabilization and Manipulation of Electronically Phase-Separated Ground States in Defective Indium Atom Wires on Silicon. <i>Physical Review Letters</i> , 2014, 113, 196802.	7.8	22
32	Flat-Band-Induced Anomalous Anisotropic Charge Transport and Orbital Magnetism in Kagome Metal CoSn. <i>Physical Review Letters</i> , 2022, 128, 096601.	7.8	22
33	Epitaxial Stabilization of Ferromagnetism in the Nanophase of FeGe. <i>Physical Review Letters</i> , 2006, 96, 127201.	7.8	19
34	Highly Efficient Nonvolatile Magnetization Switching and Multi-Level States by Current in Single Van der Waals Topological Ferromagnet Fe <sub>3</sub> GeTe <sub>2</sub> . <i>Advanced Functional Materials</i> , 2021, 31, 2105992.	14.9	19
35	A Kinetic Pathway toward High-Density Ordered N Doping of Epitaxial Graphene on Cu(111) Using C <sub>5</sub> NCl <sub>5</sub> Precursors. <i>Journal of the American Chemical Society</i> , 2017, 139, 7196-7202.	13.7	16
36	Topological zero-line modes in folded bilayer graphene. <i>Physical Review B</i> , 2018, 98, .	3.2	16

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37	Dual role of Fe dopants in enhancing stability and charge transfer in $\text{Bi}_2\text{Te}_3$ . Physical Review B, 2016, 93, .		
38	Graphene in proximity to magnetic insulating LaMnO <sub>3</sub> . Applied Physics Letters, 2014, 105, 133111.	3.3	13
39	Fabrication and magnetic properties of single-crystalline La <sub>0.33</sub> Pr <sub>0.34</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> /MgO nanowires. Applied Physics Letters, 2013, 103, .	3.3	12
40	Spontaneous Folding Growth of Graphene on h-BN. Nano Letters, 2021, 21, 2033-2039.	9.1	11
41	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
42	Quantum Control of Graphene Plasmon Excitation and Propagation at Heaviside Potential Steps. Nano Letters, 2018, 18, 1373-1378.	9.1	10
43	Symmetry-Dependent Plasmonic Properties of Three-Dimensional Hybrid Metallic Nanostructure Arrays. Journal of Physical Chemistry C, 2012, 116, 17781-17786.	3.1	9
44	Quantum Percolation and Magnetic Nanodroplet States in Electronically Phase-Separated Manganite Nanowires. Nano Letters, 2017, 17, 1461-1466.	9.1	9
45	Nano-imaging of an edge-excited plasmon mode in graphene. Nanoscale, 2018, 10, 16314-16320.	5.6	9
46	Predictive design of intrinsic half-metallicity in zigzag tungsten dichalcogenide nanoribbons. Physical Review B, 2019, 100, .	3.2	9
47	Templated growth of quasi-one dimensional molecular structures on Si(111)-(4 $\times$ 1) surface. Surface Science, 2009, 603, L70-L73.	1.9	7
48	Transport properties of topological insulator Bi <sub>2</sub> Se <sub>3</sub> thin films in tilted magnetic fields. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 46, 236-240.	2.7	7
49	Dilute magnetic insulator with $T_c$ above room temperature based on Gd implanted MgO. Journal Physics D: Applied Physics, 2009, 42, 155003.	2.8	6
50	Zhanget Al.Reply.. Physical Review Letters, 2011, 107, .	7.8	6
51	Giant intrinsic tunnel magnetoresistance in manganite thin films etched with antidot arrays. Applied Physics Letters, 2014, 104, 082414.	3.3	6
52	Substantially Enhancing Quantum Coherence of Electrons in Graphene via Electron-Plasmon Coupling. Physical Review Letters, 2017, 119, 156803.	7.8	6
53	Tuning the Kondo effect via gating-controlled orbital selection in the $\text{LaAlO}_3$ interfacial $d$ -electron system. Physical Review B, 2020, 101, .	3.2	6
54	Frictional Drag Effect between Massless and Massive Fermions in Single-Layer/Bilayer Graphene Heterostructures. Nano Letters, 2020, 20, 1396-1402.	9.1	6

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55	Zero-Bias Conductance Peaks Effectively Tuned by Gating-Controlled Rashba Spin-Orbit Coupling. Physical Review Letters, 2021, 126, 057701.	7.8	6
56	Magnetoresistance of single-crystalline La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> /MgO nanorod arrays. Solid State Communications, 2013, 171, 46-49.	1.9	5
57	Photoconductivity of Graphene in Proximity to $\text{LaAlO}_3$ Phenomenon and Photosensor Applications. Physical Review Applied, 2016, 6, .	3.8	5
58	Atomically flat and thermally stable graphene on Si(111) with preserved intrinsic electronic properties. Nanoscale, 2018, 10, 8377-8384.	5.6	4
59	Room-Temperature Anisotropic Plasma Mirror and Polarization-Controlled Optical Switch Based on Type-II Weyl Semimetal WP <sub>2</sub> . Physical Review Applied, 2020, 13, .	3.8	4
60	Highly anisotropic hybridization, dispersion, damping, and propagation of quantum plasmons in graphene superlattices. Physical Review B, 2014, 90, .	3.2	3
61	Fabricating 3D Metastructures by Simultaneous Modulation of Flexible Resist Stencils and Basal Molds. Advanced Materials, 2020, 32, 2002570.	21.0	3
62	Gate-tunable anomalous transverse voltage at the superconducting LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. Applied Physics Letters, 2019, 115, 061603.	3.3	2
63	Mixture domain states in PbTiO <sub>3</sub> film with potentials for functional application. Applied Physics Letters, 2019, 114, .	3.3	2
64	Substantially enhanced robustness of quantum Hall effect in graphene on LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterostructure. Applied Physics Express, 2020, 13, 035001.	2.4	2
65	Manipulation of electronic phases in Au-nanodots-decorated manganite films by laser illumination. Physical Review Materials, 2018, 2, .	2.4	2
66	Magnetoresistivity plateau of graphene in proximity to superconducting $\text{NbSe}_2$ . Physical Review B, 2016, 94, .	1.2	2
67	Shear strain-induced anisotropic domain evolution in mixed-phase BiFeO <sub>3</sub> epitaxial films. AIP Advances, 2019, 9, .	1.3	1
68	Topological Field-Effect Transistor Based on Quasi-Two-Dimensional Tellurium Flakes. Physical Review Applied, 2022, 17, .	3.8	1
69	Coexistence of many-body effects at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. Japanese Journal of Applied Physics, 2019, 58, 120913.	1.5	0