Shao-Chun Li

List of Publications by Year
in descending order

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65 papers	3,269 citations	201674 27 h-index	144013 57 g-index
66 all docs	66 docs citations	66 times ranked	5156 citing authors

#	Article	IF	Citations
1	Anomalous Superconducting Proximity Effect in Bi₂Se₃/FeSe_{0.5}Te_{0.5} Thinâ€Film Heterojunctions. Advanced Materials, 2022, 34, e2107799.	21.0	7
2	Coexistence of the charge density wave state and linearly dispersed energy band in 1T-ZrTe₂ monolayer. Applied Physics Letters, 2022, 120, 073105.	3.3	4
3	Surface electron doping induced double gap opening in T _d-WTe₂. Chinese Physics B, 2022, 31, 066802.	1.4	2
4	MoirÃ© enhanced charge density wave state in twisted 1T-TiTe2/1T-TiSe2 heterostructures. Nature Materials, 2022, 21, 284-289.	27.5	35
5	Research progress of puckered honeycomb monolayers. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 148101.	0.5	7
6	Ligand Nonâ€innocence and Single Molecular Spintronic Properties of Ag II Dibenzocorrole Radical on Ag(111). Angewandte Chemie, 2021, 133, 11808-11812.	2.0	1
7	Ligand Nonâ€innocence and Single Molecular Spintronic Properties of Ag^{II} Dibenzocorrole Radical on Ag(111). Angewandte Chemie - International Edition, 2021, 60, 11702-11706.	13.8	9
8	Recent progress on antimonene: from theoretical calculation to epitaxial growth. Japanese Journal of Applied Physics, 2021, 60, SE0805.	1.5	13
9	High-buckled 3Ã—3 stanene with a topologically nontrivial energy gap. Journal Physics D: Applied Physics, 2021, 54, 304002.	2.8	5
10	Direct Growth of van der Waals Tin Diiodide Monolayers. Advanced Science, 2021, 8, e2100009.	11.2	10
11	Surface step edge-assisted monolayer epitaxy of Î±-antimonene on SnSe2 substrate. AIP Advances, 2021, 11, 095014.	1.3	0
12	Proton-assisted growth of ultra-flat graphene films. Nature, 2020, 577, 204-208.	27.8	111
13	Atomically flat surface preparation for surface-sensitive technologies*. Chinese Physics B, 2020, 29, 028101.	1.4	4
14	Tuning the Electronic Structure of an Î±-Antimonene Monolayer through Interface Engineering. Nano Letters, 2020, 20, 8408-8414.	9.1	33
15	Kinetics-Limited Two-Step Growth of van der Waals Puckered Honeycomb Sb Monolayer. ACS Nano, 2020, 14, 16755-16760.	14.6	20
16	Zhu etÂal. Reply:. Physical Review Letters, 2020, 125, 079702.	7.8	0
17	Ferromagnetic MnSn Monolayer Epitaxially Grown on Silicon Substrate. Chinese Physics Letters, 2020, 37, 077502.	3.3	13
18	Realization of a Metallic State in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mrow><mml:mrow><m with Persisting Long-Range Order of a Charge Density Wave. Physical Review Letters, 2019, 123, 206405.	7.8	22

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19	Antimonene: Van der Waals Heteroepitaxial Growth of Monolayer Sb in a Puckered Honeycomb Structure (Adv. Mater. 5/2019). Advanced Materials, 2019, 31, 1970035.	21.0	5
20	Turning ZrTe5 into a semiconductor through atom intercalation. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	5
21	Theoretical and experimental evidence for the intrinsic three-dimensional Dirac state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>HgSnS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, .	3.2	3
22	Quasiparticle interference evidence of the topological Fermi arc states in chiral fermionic semimetal CoSi. Science Advances, 2019, 5, eaaw9485.	10.3	46
23	Van der Waals Heteroepitaxial Growth of Monolayer Sb in a Puckered Honeycomb Structure. Advanced Materials, 2019, 31, e1806130.	21.0	75
24	Unveiling the charge density wave inhomogeneity and pseudogap state in 1 T -TiSe 2. Science Bulletin, 2018, 63, 426-432.	9.0	17
25	Shubnikovâ€“de Haas oscillations in bulk <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>ZrT</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math> single crystals: Evidence for a weak topological insulator. Physical Review B, 2018, 97, .	3.2	22
26	Observation of Coulomb gap in the quantum spin Hall candidate single-layer 1Tâ€™-WTe2. Nature Communications, 2018, 9, 4071.	12.8	60
27	Superconductivity in Potassium-Intercalated T_d-WTe₂. Nano Letters, 2018, 18, 6585-6590.	9.1	52
28	Aggregation of BiTe monolayer on Bi2Te3 (111) induced by diffusion of intercalated atoms in the van der Waals gap. Physical Review B, 2017, 95, .	3.2	3
29	Identification of Lattice Oxygen in Few-Layer Black Phosphorous Exfoliated in Ultrahigh Vacuum and Largely Improved Ambipolar Field-Effect Mobilities by Hydrogenation and Phosphorization. ACS Applied Materials & Interfaces, 2017, 9, 39804-39811.	8.0	10
30	Supramolecular Motors on Graphite Surface Stabilized by Charge States and Hydrogen Bonds. ACS Nano, 2017, 11, 10236-10242.	14.6	7
31	Direct visualization of a two-dimensional topological insulator in the single-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:msup><mml:mi>T</mml:mi><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	3.2	129
32	Influence of strain on water adsorption and dissociation on rutile TiO₂(110) surface. Physical Chemistry Chemical Physics, 2016, 18, 14833-14839.	2.8	18
33	Real-space characterization of reactivity towards water at theBi2Te3(111) surface. Physical Review B, 2016, 93, .	3.2	8
34	Experimental Observation of Topological Edge States at the Surface Step Edge of the Topological Insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>ZrTe</mml:mi></mml:mrow><mml:mrow><mml:mn>5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2016, 116, 176803.	7.8	164
35	Majorana Zero Mode Detected with Spin Selective Andreev Reflection in the Vortex of a Topological Superconductor. Physical Review Letters, 2016, 116, 257003.	7.8	494
36	Tailoring Kinetics on a Topological Insulator Surface by Defect-Induced Strain: Pb Mobility on Bi₂Te₃. Nano Letters, 2016, 16, 4454-4461.	9.1	4

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37	Sequential Photo-oxidation of Methanol to Methyl Formate on TiO₂(110). Journal of the American Chemical Society, 2013, 135, 574-577.	13.7	166
38	Trapping Nitric Oxide by Surface Hydroxyls on Rutile TiO₂(110). Journal of Physical Chemistry C, 2012, 116, 1887-1891.	3.1	36
39	Evidence for sâ€“d Hybridization in Au₃₈ Clusters. Journal of Physical Chemistry C, 2012, 116, 5857-5861.	3.1	9
40	Preparation, Characterization, and Catalytic Properties of Tungsten Trioxide Cyclic Trimers on FeO(111)/Pt(111). Journal of Physical Chemistry C, 2012, 116, 908-916.	3.1	27
41	Adsorption-Site-Dependent Electronic Structure of Catechol on the Anatase TiO₂(101) Surface. Langmuir, 2011, 27, 8600-8604.	3.5	42
42	Growth and Organization of an Organic Molecular Monolayer on TiO₂: Catechol on Anatase (101). Journal of the American Chemical Society, 2011, 133, 7816-7823.	13.7	106
43	Photoemission Study of Azobenzene and Aniline Adsorbed on TiO₂ Anatase (101) and Rutile (110) Surfaces. Journal of Physical Chemistry C, 2011, 115, 10173-10179.	3.1	17
44	Oxide Surface Science. Annual Review of Physical Chemistry, 2010, 61, 129-148.	10.8	168
45	Hydrogen Bonding Controls the Dynamics of Catechol Adsorbed on a TiO ₂ (110) Surface. Science, 2010, 328, 882-884.	12.6	212
46	Straightforward Self-Assembly of Porphyrin Nanowires in Water: Harnessing Adamantane/Î²-Cyclodextrin Interactions. Journal of the American Chemical Society, 2010, 132, 9966-9967.	13.7	83
47	Influence of Subsurface Defects on the Surface Reactivity of TiO₂: Water on Anatase (101). Journal of Physical Chemistry C, 2010, 114, 1278-1284.	3.1	206
48	Reactivity of TiO₂ Rutile and Anatase Surfaces toward Nitroaromatics. Journal of the American Chemical Society, 2010, 132, 64-66.	13.7	95
49	Correlation between Bonding Geometry and Band Gap States at Organicâ"Inorganic Interfaces: Catechol on Rutile TiO₂(110). Journal of the American Chemical Society, 2009, 131, 980-984.	13.7	169
50	Reactivity of FeO(111)/Pt(111) with Alcohols. Journal of Physical Chemistry C, 2009, 113, 20020-20028.	3.1	19
51	Water-soluble nanorods self-assembled via pristine C60 and porphyrin moieties. Chemical Communications, 2009, , 4209.	4.1	35
52	Direction-dependent intermolecular interactions: catechol on TiO 2 (110)-1Ã—1. , 2009, , .		0
53	Intrinsic Diffusion of Hydrogen on Rutile TiO₂(110). Journal of the American Chemical Society, 2008, 130, 9080-9088.	13.7	124
54	Scanning Tunneling Microscopy Study of a Vicinal Anatase TiO2 Surface. Journal of Physical Chemistry C, 2008, 112, 16166-16170.	3.1	10

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55	Decomposition of catechol and carbonaceous residues on TiO2(110): A model system for cleaning of extreme ultraviolet lithography optics. Journal of Vacuum Science & Technology B, 2008, 26, 2236-2240.	1.3	13
56	Vacancy-Assisted Diffusion of Alkoxy Species on Rutile<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>110</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 687 Td (stretchy="false">)</mm	7.8	31
57	Kinetics of mesa overlayer growth: Climbing of adatoms onto the mesa top. Applied Physics Letters, 2008, 92, 021909.	3.3	8
58	Quantum Size Effects Induced Novel Properties in Two-Dimensional Electronic Systems: Pb Thin Films on Si(111). Journal of the Physical Society of Japan, 2007, 76, 082001.	1.6	39
59	Imaging Intrinsic Diffusion of Bridge-Bonded Oxygen Vacancies onTiO2(110). Physical Review Letters, 2007, 99, 126105.	7.8	86
60	Quantum oscillations in Pb/Si (111) heterostructure system. Frontiers of Physics in China, 2006, 1, 323-333.	1.0	2
61	Fabricating artificial nanowells with tunable size and shape by using scanning tunneling microscopy. Applied Physics Letters, 2006, 89, 123111.	3.3	12
62	Influence of quantum size effects on Pb island growth and diffusion barrier oscillations. Physical Review B, 2006, 74, .	3.2	18
63	Determination of the Ehrlich-Schwoebel barrier in epitaxial growth of thin films. Physical Review B, 2006, 74, .	3.2	19
64	Borderline Magic Clustering: The Fabrication of Tetravalent Pb Cluster Arrays onSi(111)â˜(7Ã—7)Surfaces. Physical Review Letters, 2004, 93, 116103.	7.8	77
65	Coulomb Sink: A Novel Coulomb Effect on Coarsening of Metal Nanoclusters on Semiconductor Surfaces. Physical Review Letters, 2004, 93, 106102.	7.8	21