

Shao-Chun Li

List of Publications by Year in descending order

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papers

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citations

201674

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times ranked

5156
citing authors

#	ARTICLE	IF	CITATIONS
1	Majorana Zero Mode Detected with Spin Selective Andreev Reflection in the Vortex of a Topological Superconductor. <i>Physical Review Letters</i> , 2016, 116, 257003.	7.8	494
2	Hydrogen Bonding Controls the Dynamics of Catechol Adsorbed on a TiO ₂ (110) Surface. <i>Science</i> , 2010, 328, 882-884.	12.6	212
3	Influence of Subsurface Defects on the Surface Reactivity of TiO ₂ : Water on Anatase (101). <i>Journal of Physical Chemistry C</i> , 2010, 114, 1278-1284.	3.1	206
4	Correlation between Bonding Geometry and Band Gap States at Organic-Inorganic Interfaces: Catechol on Rutile TiO ₂ (110). <i>Journal of the American Chemical Society</i> , 2009, 131, 980-984.	13.7	169
5	Oxide Surface Science. <i>Annual Review of Physical Chemistry</i> , 2010, 61, 129-148.	10.8	168
6	Sequential Photo-oxidation of Methanol to Methyl Formate on TiO ₂ (110). <i>Journal of the American Chemical Society</i> , 2013, 135, 574-577.	13.7	166
7	Experimental Observation of Topological Edge States at the Surface Step Edge of the Topological Insulator $ZrTe_5$. <i>Physical Review Letters</i> , 2016, 116, 176803.	7.8	164
8	Direct visualization of a two-dimensional topological insulator in the single-layer Ti_2Te . <i>Physical Review B</i> , 2017, 96, .	3.2	129
9	Intrinsic Diffusion of Hydrogen on Rutile TiO ₂ (110). <i>Journal of the American Chemical Society</i> , 2008, 130, 9080-9088.	13.7	124
10	Proton-assisted growth of ultra-flat graphene films. <i>Nature</i> , 2020, 577, 204-208.	27.8	111
11	Growth and Organization of an Organic Molecular Monolayer on TiO ₂ : Catechol on Anatase (101). <i>Journal of the American Chemical Society</i> , 2011, 133, 7816-7823.	13.7	106
12	Reactivity of TiO ₂ Rutile and Anatase Surfaces toward Nitroaromatics. <i>Journal of the American Chemical Society</i> , 2010, 132, 64-66.	13.7	95
13	Imaging Intrinsic Diffusion of Bridge-Bonded Oxygen Vacancies on TiO ₂ (110). <i>Physical Review Letters</i> , 2007, 99, 126105.	7.8	86
14	Straightforward Self-Assembly of Porphyrin Nanowires in Water: Harnessing Adamantane/ β -Cyclodextrin Interactions. <i>Journal of the American Chemical Society</i> , 2010, 132, 9966-9967.	13.7	83
15	Borderline Magic Clustering: The Fabrication of Tetravalent Pb Cluster Arrays on Si(111)-(7 \times 7) Surfaces. <i>Physical Review Letters</i> , 2004, 93, 116103.	7.8	77
16	Van der Waals Heteroepitaxial Growth of Monolayer Sb in a Puckered Honeycomb Structure. <i>Advanced Materials</i> , 2019, 31, e1806130.	21.0	75
17	Observation of Coulomb gap in the quantum spin Hall candidate single-layer 1T'-WTe ₂ . <i>Nature Communications</i> , 2018, 9, 4071.	12.8	60
18	Superconductivity in Potassium-Intercalated Td -WTe ₂ . <i>Nano Letters</i> , 2018, 18, 6585-6590.	9.1	52

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19	Quasiparticle interference evidence of the topological Fermi arc states in chiral fermionic semimetal CoSi. <i>Science Advances</i> , 2019, 5, eaaw9485.	10.3	46
20	Adsorption-Site-Dependent Electronic Structure of Catechol on the Anatase TiO ₂ (101) Surface. <i>Langmuir</i> , 2011, 27, 8600-8604.	3.5	42
21	Quantum Size Effects Induced Novel Properties in Two-Dimensional Electronic Systems: Pb Thin Films on Si(111). <i>Journal of the Physical Society of Japan</i> , 2007, 76, 082001.	1.6	39
22	Trapping Nitric Oxide by Surface Hydroxyls on Rutile TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2012, 116, 1887-1891.	3.1	36
23	Water-soluble nanorods self-assembled via pristine C60 and porphyrin moieties. <i>Chemical Communications</i> , 2009, , 4209.	4.1	35
24	Moiré enhanced charge density wave state in twisted 1T-TiTe ₂ /1T-TiSe ₂ heterostructures. <i>Nature Materials</i> , 2022, 21, 284-289.	27.5	35
25	Tuning the Electronic Structure of an $\hat{\Gamma}_{\pm}$ -Antimonene Monolayer through Interface Engineering. <i>Nano Letters</i> , 2020, 20, 8408-8414.	9.1	33
26	Vacancy-Assisted Diffusion of Alkoxy Species on Rutile TiO ₂ crystals: Evidence for a weak topological insulator. <i>Physical Review B</i> , 2018, 97, .	7.8	31
27	Preparation, Characterization, and Catalytic Properties of Tungsten Trioxide Cyclic Trimers on FeO(111)/Pt(111). <i>Journal of Physical Chemistry C</i> , 2012, 116, 908-916.	3.1	27
28	Shubnikov-de Haas oscillations in bulk ZrTe ₅ crystals: Evidence for a weak topological insulator. <i>Physical Review B</i> , 2018, 97, .	3.2	22
29	Realization of a Metallic State in T ₁ Bi ₂ Te ₃ with Persisting Long-Range Order of a Charge Density Wave. <i>Physical Review Letters</i> , 2019, 123, 206405.	7.8	22
30	Coulomb Sink: A Novel Coulomb Effect on Coarsening of Metal Nanoclusters on Semiconductor Surfaces. <i>Physical Review Letters</i> , 2004, 93, 106102.	7.8	21
31	Kinetics-Limited Two-Step Growth of van der Waals Puckered Honeycomb Sb Monolayer. <i>ACS Nano</i> , 2020, 14, 16755-16760.	14.6	20
32	Determination of the Ehrlich-Schwoebel barrier in epitaxial growth of thin films. <i>Physical Review B</i> , 2006, 74, .	3.2	19
33	Reactivity of FeO(111)/Pt(111) with Alcohols. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20020-20028.	3.1	19
34	Influence of quantum size effects on Pb island growth and diffusion barrier oscillations. <i>Physical Review B</i> , 2006, 74, .	3.2	18
35	Influence of strain on water adsorption and dissociation on rutile TiO ₂ (110) surface. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14833-14839.	2.8	18
36	Photoemission Study of Azobenzene and Aniline Adsorbed on TiO ₂ Anatase (101) and Rutile (110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10173-10179.	3.1	17

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37	Unveiling the charge density wave inhomogeneity and pseudogap state in 1 T-TiSe ₂ . Science Bulletin, 2018, 63, 426-432.	9.0	17
38	Decomposition of catechol and carbonaceous residues on TiO ₂ (110): A model system for cleaning of extreme ultraviolet lithography optics. Journal of Vacuum Science & Technology B, 2008, 26, 2236-2240.	1.3	13
39	Ferromagnetic MnSn Monolayer Epitaxially Grown on Silicon Substrate. Chinese Physics Letters, 2020, 37, 077502.	3.3	13
40	Recent progress on antimonene: from theoretical calculation to epitaxial growth. Japanese Journal of Applied Physics, 2021, 60, SE0805.	1.5	13
41	Fabricating artificial nanowells with tunable size and shape by using scanning tunneling microscopy. Applied Physics Letters, 2006, 89, 123111.	3.3	12
42	Scanning Tunneling Microscopy Study of a Vicinal Anatase TiO ₂ Surface. Journal of Physical Chemistry C, 2008, 112, 16166-16170.	3.1	10
43	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
44	Direct Growth of van der Waals Tin Diodide Monolayers. Advanced Science, 2021, 8, e2100009.	11.2	10
45	Evidence for s-d Hybridization in Au ₃₈ Clusters. Journal of Physical Chemistry C, 2012, 116, 5857-5861.	3.1	9
46	Ligand Noninnocence and Single Molecular Spintronic Properties of Ag ^{II} Dibenzoacorrole Radical on Ag(111). Angewandte Chemie - International Edition, 2021, 60, 11702-11706.	13.8	9
47	Kinetics of mesa overlayer growth: Climbing of adatoms onto the mesa top. Applied Physics Letters, 2008, 92, 021909.	3.3	8
48	Real-space characterization of reactivity towards water at the Bi ₂ Te ₃ (111) surface. Physical Review B, 2016, 93, .	3.2	8
49	Supramolecular Motors on Graphite Surface Stabilized by Charge States and Hydrogen Bonds. ACS Nano, 2017, 11, 10236-10242.	14.6	7
50	Research progress of puckered honeycomb monolayers. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 148101.	0.5	7
51	Anomalous Superconducting Proximity Effect in Bi ₂ Se ₃ /FeSe _{0.5} Te _{0.5} Thin-Film Heterojunctions. Advanced Materials, 2022, 34, e2107799.	21.0	7
52	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
53	Turning ZrTe ₅ into a semiconductor through atom intercalation. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	5
54	High-buckled 3Å ⁻³ stanene with a topologically nontrivial energy gap. Journal Physics D: Applied Physics, 2021, 54, 304002.	2.8	5

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55	Tailoring Kinetics on a Topological Insulator Surface by Defect-Induced Strain: Pb Mobility on Bi ₂ Te ₃ . Nano Letters, 2016, 16, 4454-4461.	9.1	4
56	Atomically flat surface preparation for surface-sensitive technologies*. Chinese Physics B, 2020, 29, 028101.	1.4	4
57	Coexistence of the charge density wave state and linearly dispersed energy band in 1T-ZrTe ₂ monolayer. Applied Physics Letters, 2022, 120, 073105.	3.3	4
58	Aggregation of BiTe monolayer on Bi ₂ Te ₃ (111) induced by diffusion of intercalated atoms in the van der Waals gap. Physical Review B, 2017, 95, .	3.2	3
59	Theoretical and experimental evidence for the intrinsic three-dimensional Dirac state in Cu_2HgSnS_4 Physical Review B, 2019, 100, .	3.2	3
60	Quantum oscillations in Pb/Si (111) heterostructure system. Frontiers of Physics in China, 2006, 1, 323-333.	1.0	2
61	Surface electron doping induced double gap opening in Td-WTe ₂ . Chinese Physics B, 2022, 31, 066802.	1.4	2
62	Ligand Noninnocence and Single Molecular Spintronic Properties of Ag II Dibenzocorrole Radical on Ag(111). Angewandte Chemie, 2021, 133, 11808-11812.	2.0	1
63	Direction-dependent intermolecular interactions: catechol on TiO ₂ (110)-1 \times 1. , 2009, , .		0
64	Zhu et al. Reply.. Physical Review Letters, 2020, 125, 079702.	7.8	0
65	Surface step edge-assisted monolayer epitaxy of \pm -antimonene on SnSe ₂ substrate. AIP Advances, 2021, 11, 095014.	1.3	0