Fang-Sen Li

List of Publications by Year
in descending order

55 papers	1,653 citations	394421 19 h-index	289244 40 g-index
55 all docs	55 docs citations	55 times ranked	1963 citing authors

#	Article	IF	Citations
1	Semiconductorâ€“Metal Phase Transition and Emergent Charge Density Waves in 1T-ZrX₂ (X = Se, Te) at the Two-Dimensional Limit. Nano Letters, 2022, 22, 476-484.	9.1	13
2	Modulation of electronic state in copper-intercalated 1T-TaS2. Nano Research, 2022, 15, 4327-4333.	10.4	3
3	Visualizing the evolution from Mott insulator to Anderson insulator in Ti-doped 1T-TaS2. Npj Quantum Materials, 2022, 7, .	5.2	9
4	Electronic states driven by the crystal field in two-dimensional materials: The case of antimonene. Physical Review B, 2022, 105, .	3.2	3
5	Variation between Antiferromagnetism and Ferrimagnetism in NiPS₃ by Electron Doping. Advanced Functional Materials, 2022, 32, .	14.9	28
6	Wafer-scale epitaxial single-crystalline Ni(111) films on sapphires for graphene growth. Journal of Materials Science, 2021, 56, 3220-3229.	3.7	9
7	Investigation of Î²â€Ga₂O₃ Film Growth Mechanism on câ€Plane Sapphire Substrate by Ozone Molecular Beam Epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000457.	1.8	18
8	The Significant Effect of Carbon and Oxygen Contaminants at Pd/pâ€GaN Interface on Its Ohmic Contact Characteristics. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000603.	1.8	2
9	An Efficiency of 16.46% and a T₈₀ Lifetime of Over 4000 h for the PM6:Y6 Inverted Organic Solar Cells Enabled by Surface Acid Treatment of the Zinc Oxide Electron Transporting Layer. ACS Applied Materials & Interfaces, 2021, 13, 17869-17881.	8.0	80
10	Direct transformation of n-alkane into all-trans conjugated polyene via cascade dehydrogenation. National Science Review, 2021, 8, nwab093.	9.5	15
11	Revealing the Mechanism behind the Catastrophic Failure of nâ€iâ€p Type Perovskite Solar Cells under Operating Conditions and How to Suppress It. Advanced Functional Materials, 2021, 31, 2103820.	14.9	22
12	Oxygen Adsorption Induced Superconductivity in Ultrathin FeTe Film on SrTiO3(001). Materials, 2021, 14, 4584.	2.9	4
13	Direct Observation of Global Elastic Intervalley Scattering Induced by Impurities on Graphene. Nano Letters, 2021, 21, 8258-8265.	9.1	9
14	Synergetic effects of electrochemical oxidation of Spiro-OMeTAD and Li⁺ ion migration for improving the performance of nâ€“iâ€“p type perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 7575-7585.	10.3	50
15	Epitaxial Growth of Singleâ€Phase 1T'â€WSe₂ Monolayer with Assistance of Enhanced Interface Interaction. Advanced Materials, 2021, 33, e2004930.	21.0	28
16	Interfacial electron-phonon coupling and quantum confinement in ultrathin Yb films on graphite. Physical Review B, 2021, 104, .	3.2	1
17	Searching for a promising topological Dirac nodal-line semimetal by angle resolved photoemission spectroscopy. New Journal of Physics, 2021, 23, 123026.	2.9	5
18	Insights into the Dual Role of Lithium Difluoro(oxalato)borate Additive in Improving the Electrochemical Performance of NMC811||Graphite Cells. ACS Applied Energy Materials, 2020, 3, 695-704.	5.1	54

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19	Discovery of an insulating parent phase in single-layer FeSe/SrTiO3 films. Physical Review B, 2020, 102, .	3.2	6
20	Simultaneous Improvement of the Longâ€Term and Thermal Stability of the Perovskite Solar Cells Using 2,3,4,5,6â€Pentafluorobenzoyl Chloride (PFBC)â€Capped ZnO Nanoparticles Buffer Layer. Solar Rrl, 2020, 4, 2000289.	5.8	8
21	Perturbational Imaging of Molecules with the Scanning Tunneling Microscope. Journal of Physical Chemistry C, 2020, 124, 25892-25897.	3.1	2
22	Molecular beam epitaxy growth and strain-induced bandgap of monolayer 1Tâ€²-WTe2 on SrTiO3(001). Applied Physics Letters, 2020, 117, .	3.3	5
23	Largeâ€scale quantification of aluminum in Al x Ga 1â€•x N alloys by ToFâ€SIMS: The benefit of secondary cluster ions. Surface and Interface Analysis, 2020, 52, 311-317.	1.8	2
24	Nonâ€Uniform Chemical Corrosion of Metal Electrode of pâ€“iâ€“n Type of Perovskite Solar Cells Caused by the Diffusion of CH₃NH₃I. Energy Technology, 2020, 8, 2000250.	3.8	13
25	Direct Observation of One-Dimensional Peierls-type Charge Density Wave in Twin Boundaries of Monolayer MoTe₂. ACS Nano, 2020, 14, 8299-8306.	14.6	23
26	Investigation of Electrical and Interfacial Properties of Improved Ohmic Contact on p-Type GaN. ECS Journal of Solid State Science and Technology, 2019, 8, P24-P29.	1.8	0
27	Visualizing Dirac nodal-line band structure of topological semimetal ZrGeSe by ARPES. APL Materials, 2019, 7, .	5.1	13
28	Interface analysis of TiN/n-GaN Ohmic contacts with high thermal stability. Applied Surface Science, 2019, 481, 1148-1153.	6.1	7
29	Precise determination of surface band bending in Ga-polar n-GaN films by angular dependent X-Ray photoemission spectroscopy. Scientific Reports, 2019, 9, 16969.	3.3	17
30	Accurate surface band bending determination on Ga-polar n-type GaN films by fitting x-ray valence band photoemission spectrum. AIP Advances, 2019, 9, .	1.3	9
31	Anisotropic electronic structure of antimonene. Applied Physics Letters, 2019, 115, .	3.3	15
32	Angular dependent XPS study of surface band bending on Ga-polar n-GaN. Applied Surface Science, 2018, 440, 637-642.	6.1	57
33	Extensive impurity-scattering study on the pairing symmetry of monolayer FeSe films on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><m Physical Review B, 2018, 97, .	3.2	28
34	Study on the measurement accuracy of circular transmission line model for low-resistance Ohmic contacts on III-V wide band-gap semiconductors. Current Applied Physics, 2018, 18, 853-858.	2.4	4
35	Remote plasma-enhanced atomic layer deposition of metallic TiN films with low work function and high uniformity. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	2.1	7
36	Ion Sputter Induced Interfacial Reaction in Prototypical Metal-GaN System. Scientific Reports, 2018, 8, 8521.	3.3	6

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37	Spontaneous Breaking and Remaking of the RSâ€“Auâ€“SR Staple in Self-assembled Ethylthiolate/Au(111) Interface. Journal of Physical Chemistry C, 2018, 122, 19473-19480.	3.1	13
38	Thermal Stability Study of GaP/Highâ€‹k Dielectrics Interfaces. Advanced Materials Interfaces, 2017, 4, 1700609.	3.7	5
39	Topological edge states in a high-temperature superconductor FeSe/SrTiO3(001) film. Nature Materials, 2016, 15, 968-973.	27.5	145
40	Role of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m penetrating into thin FeSe films in the enhancement of superconductivity. Physical Review B, 2016, 94, .	3.2	74
41	Surface-induced symmetry reduction in molecular switching: asymmetric cisâ€“trans switching of CH3S-Au-SCH3on Au(111). Nanoscale, 2016, 8, 19787-19793.	5.6	8
42	Interface-enhanced electron-phonon coupling and high-temperature superconductivity in potassium-coated ultrathin FeSe films on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review B, 2016, 93, .	3.2	70
43	Interface-induced high-temperature superconductivity in single-unit-cell<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>FeT</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:mrow> mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math>films on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mm. Physical Review	3.2	48
44	Electronic evidence of an insulatorâ€“superconductor crossover in single-layer FeSe/SrTiO3films. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18501-18506.	7.1	67
45	Direct Observation of High-Temperature Superconductivity in One-Unit-Cell FeSe Films. Chinese Physics Letters, 2014, 31, 017401.	3.3	222
46	Self-assembled alkanethiol monolayers on gold surfaces: resolving the complex structure at the interface by STM. Physical Chemistry Chemical Physics, 2014, 16, 19074.	2.8	85
47	Dichotomy of the electronic structure and superconductivity between single-layer and double-layer FeSe/SrTiO3 films. Nature Communications, 2014, 5, 5047.	12.8	57
48	Interface charge doping effects on superconductivity of single-unit-cell FeSe films on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>SrTiO</mml:mtext><mml:mn>3</mml:mn></mml:msub></mml:msu Physical Review B, 2014, 89, .	3.2	128
49	High temperature superconducting FeSe films on SrTiO3 substrates. Scientific Reports, 2014, 4, 6040.	3.3	109
50	Balance of Forces in Self-Assembled Monolayers. Journal of Physical Chemistry C, 2013, 117, 24985-24990.	3.1	14
51	The striped phases of ethylthiolate monolayers on the Au(111) surface: A scanning tunneling microscopy study. Journal of Chemical Physics, 2013, 138, 194707.	3.0	18
52	Adsorption and Electron-Induced Dissociation of Ethanethiol on Au(111). Langmuir, 2012, 28, 11115-11120.	3.5	12
53	Surface melting and recrystallization of a self-assembled octanethiol monolayer on Au(111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, 021011.	2.1	6
54	Selectable Growth and Electronic Structures of Monolayer 1Tâ€‹VSe ₂ and V ₅ Se ₈ Films on Bilayer Graphene. Physica Status Solidi - Rapid Research Letters, 0, , 2100601.	2.4	2

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55	Observation of metallic TeO2 thin film with rutile structure on FeTe surface. Journal of Materials Science, 0, , .	3.7	0