

Jian-Qi Li

List of Publications by Year in descending order

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78
papers

4,849
citations

218677

26
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95266

68
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79
all docs

79
docs citations

79
times ranked

8825
citing authors

#	ARTICLE	IF	CITATIONS
1	Triggering the electrocatalytic hydrogen evolution activity of the inert two-dimensional MoS ₂ surface via single-atom metal doping. Energy and Environmental Science, 2015, 8, 1594-1601.	30.8	1,109
2	Superior Electrochemical Performance and Storage Mechanism of Na ₃ V ₂ (PO ₄) ₃ Cathode for Room-Temperature Sodium-Ion Batteries. Advanced Energy Materials, 2013, 3, 156-160.	19.5	817
3	A single iron site confined in a graphene matrix for the catalytic oxidation of benzene at room temperature. Science Advances, 2015, 1, e1500462.	10.3	719
4	A Graphene Composite Material with Single Cobalt Active Sites: A Highly Efficient Counter Electrode for Dye-Sensitized Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 6708-6712.	13.8	236
5	A Centrosymmetric Hexagonal Magnet with Superstable Biskyrmion Magnetic Nanodomains in a Wide Temperature Range of 100-340 K. Advanced Materials, 2016, 28, 6887-6893.	21.0	209
6	Graphene-Co ₃ O ₄ nanocomposite as an efficient bifunctional catalyst for lithium-air batteries. Journal of Materials Chemistry A, 2014, 2, 7188-7196.	10.3	192
7	Scalable Self-Propagating High-Temperature Synthesis of Graphene for Supercapacitors with Superior Power Density and Cyclic Stability. Advanced Materials, 2017, 29, 1604690.	21.0	186
8	Realization of practical level current densities in Sr _{0.6} K _{0.4} Fe ₂ As ₂ tape conductors for high-field applications. Applied Physics Letters, 2014, 104, 202601.	3.3	119
9	Transmission-Electron-Microscopy Study on Fivefold Twinned Silver Nanorods. Journal of Physical Chemistry B, 2004, 108, 12038-12043.	2.6	115
10	A highly active, stable and synergistic Pt nanoparticles/Mo ₂ C nanotube catalyst for methanol electro-oxidation. NPC Asia Materials, 2015, 7, e153-e153.	7.9	88
11	Hot pressing to enhance the transport J _c of Sr _{0.6} K _{0.4} Fe ₂ As ₂ superconducting tapes. Scientific Reports, 2014, 4, 6944.	3.3	64
12	Real-Space Observation of Nonvolatile Zero-Field Biskyrmion Lattice Generation in MnNiGa Magnet. Nano Letters, 2017, 17, 7075-7079.	9.1	64
13	Realization of zero-field skyrmions with high-density via electromagnetic manipulation in Pt/Co/Ta multilayers. Applied Physics Letters, 2017, 111, .	3.3	57
14	In situ diffusion growth of Fe ₂ (MoO ₄) ₃ nanocrystals on the surface of $\sqrt{3}\times\sqrt{3}$ -MoO ₃ nanorods with significantly enhanced ethanol sensing properties. Journal of Materials Chemistry, 2012, 22, 12900.	6.7	45
15	Direct observation of an optically induced charge density wave transition in TaS_2 . Physical Review B, 2015, 92, .	3.2	41
16	Evolution of topological skyrmions across the spin reorientation transition in Pt/Co/Ta multilayers. Physical Review B, 2018, 97, .	3.2	41
17	Hidden CDW states and insulator-to-metal transition after a pulsed femtosecond laser excitation in layered chalcogenide 1T-TaS ₂ Se. Science Advances, 2018, 4, eaas9660.	10.3	39
18	Clocking the anisotropic lattice dynamics of multi-walled carbon nanotubes by four-dimensional ultrafast transmission electron microscopy. Scientific Reports, 2015, 5, 8404.	3.3	38

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19	A Graphene Composite Material with Single Cobalt Active Sites: A Highly Efficient Counter Electrode for Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2016, 128, 6820-6824.	2.0	35
20	Quantification of Magnetic Surface and Edge States in an FeGe Nanostripe by Off-Axis Electron Holography. <i>Physical Review Letters</i> , 2018, 120, 167204.	7.8	33
21	Graphene-MoO ₂ hierarchical nanoarchitectures: in situ reduction synthesis and high rate cycling performance as lithium-ion battery anodes. <i>RSC Advances</i> , 2013, 3, 17659.	3.6	32
22	Development of analytical ultrafast transmission electron microscopy based on laser-driven Schottky field emission. <i>Ultramicroscopy</i> , 2020, 209, 112887.	1.9	32
23	Role of the 245 phase in alkaline iron selenide superconductors revealed by high-pressure studies. <i>Physical Review B</i> , 2014, 89, .	3.2	31
24	Characteristics and temperature-field-thickness evolutions of magnetic domain structures in van der Waals magnet Fe ₃ GeTe ₂ nanolayers. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	31
25	Generation of high-density biskyrmions by electric current. <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	30
26	Effect of the thickness of BiFeO ₃ layers on the magnetic and electric properties of BiFeO ₃ /La _{0.7} Sr _{0.3} MnO ₃ heterostructures. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	28
27	Quasi-two-dimensional superconductivity in FeSe _{0.3} Te _{0.7} thin films and electric-field modulation of superconducting transition. <i>Scientific Reports</i> , 2015, 5, 14133.	3.3	28
28	Dynamic diffraction effects and coherent breathing oscillations in ultrafast electron diffraction in layered 1T-TaSeTe. <i>Structural Dynamics</i> , 2017, 4, 044012.	2.3	28
29	Homotopy-Theoretic Study & Atomic-Scale Observation of Vortex Domains in Hexagonal Manganites. <i>Scientific Reports</i> , 2016, 6, 28047.	3.3	24
30	Strong Coupling of the Iron-Quadrupole and Anion-Dipole Polarizations in BaFe_2O_7	7.8	23
31	Magnetotransport properties in a compensated semimetal gray arsenic. <i>Physical Review B</i> , 2017, 95, .	3.2	22
32	Magnetoresistance Behavior of Conducting Filaments in Resistive-Switching NiO with Different Resistance States. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10835-10846.	8.0	21
33	Pressure-induced superconducting state in crystalline boron nanowires. <i>Physical Review B</i> , 2009, 79, .	3.2	18
34	Beneficial effect of Gd substitution on magnetic properties of magnetically anisotropic SmCo ₅ ribbons. <i>Applied Physics Letters</i> , 2001, 79, 1843-1845.	3.3	15
35	A new route to single crystalline vanadium dioxide nanoflakes via thermal reduction. <i>Journal of Materials Research</i> , 2007, 22, 1921-1926.	2.6	15
36	Electronic ferroelectricity, charge ordering and structural phase transitions in LuFe_2O_4 (LuFeO_3) $\langle i \rangle$ ($\langle i \rangle$ and 1). <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 870-876.		15

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37	Superconductivity in Bi ₃ O ₂ S ₂ Cl with Bi-Cl Planar Layers. Journal of the American Chemical Society, 2019, 141, 3404-3408.	13.7	15
38	Direct Observation of Magnetic-Off-Centering-Induced Ferroelectricity in Multiferroic Manganite Pr(Sr _{0.1} Ca _{0.9}) ₂ Mn ₂ O ₇ . Advanced Materials, 2015, 27, 6328-6332.	21.0	14
39	Built-In-Homojunction-Dominated Intrinsically Rectifying-Resistive Switching in NiO Nanodots for Selection-Device-Free Memory Application. Advanced Electronic Materials, 2017, 3, 1600361.	5.1	11
40	Picosecond view of a martensitic transition and nucleation in the shape memory alloy Mn ₅₀ Ni ₄₀ Sn ₁₀ by four-dimensional transmission electron microscopy. Physical Review B, 2017, 96, .	3.2	11
41	Structural properties of magnetically anisotropic SmCo ₅ ribbons. Applied Physics Letters, 2002, 80, 2660-2662.	3.3	10
42	Self-Intercalation Tunable Interlayer Exchange Coupling in a Synthetic van der Waals Antiferromagnet. Advanced Functional Materials, 2022, 32, .	14.9	10
43	Cooperative inter- and intra-layer lattice dynamics of photoexcited multi-walled carbon nanotubes studied by ultrafast electron diffraction. Nanoscale, 2018, 10, 7465-7471.	5.6	9
44	Growth of High-Quality Superconducting FeSe _{0.5} Te _{0.5} Films on Pb(Mg _{1/3} Nb _{2/3}) _{0.7} Ti _{0.3} O ₃ and Electric-Field Modulation of Superconductivity. ACS Applied Materials & Interfaces, 2020, 12, 12238-12245.	8.0	9
45	Nanoscale Visualization of a Photoinduced Plasmonic Near-Field in a Single Nanowire by Free Electrons. Nano Letters, 2021, 21, 10238-10243.	9.1	9
46	Fabrication and Characterization of Micro-Pattern Dandelion-like and Nanobelts of -SrV ₂ O ₆ via Hydrothermal Process. Chinese Journal of Chemical Physics, 2007, 20, 727-732.	1.3	8
47	Electronic structure of YMn ₂ O ₅ studied by EELS and first-principles calculations. Frontiers of Physics, 2012, 7, 429-434.	5.0	8
48	Direct Observation of Inner-Layer Inward Contractions of Multiwalled Boron Nitride Nanotubes upon in Situ Heating. Nanomaterials, 2018, 8, 86.	4.1	8
49	Classical linear magnetoresistance in exfoliated NbTe_2 nanoflakes. Physical Review B, 2021, 104, .	5.2	8
50	Effect of TaO _x thickness on the resistive switching of Ta/Pr _{0.7} Ca _{0.3} MnO ₃ /Pt films. Applied Physics Letters, 2012, 100, 143506.	3.3	7
51	Spontaneous nanometric magnetic bubbles with various topologies in spin-reoriented La ^x Sr _x MnO ₃ . Applied Physics Letters, 2018, 113, .	3.3	7
52	Structural phase transition, antiferromagnetism and two superconducting domes in LaFeAsO _{1-x} F _x (0) Tj ETQq0 0 0 rgBT /Overlock 10 Tj 5.1	5.1	6
53	Lattice Dynamics and Contraction of Energy Bandgap in Photoexcited Semiconducting Boron Nitride Nanotubes. ACS Nano, 2019, 13, 11623-11631.	14.6	6
54	Observation of three superconducting transitions in the pressurized CDW-bearing compound TaTe_2 . Physical Review Materials, 2022, 6, .	2.4	6

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55	Investigation of S_{c} -Suppressing Factors in Flat-Rolled $Sr_{0.6}K_{0.4}Fe_{2}As_{2}$ Tapes Via Microstructure Analysis. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	5
56	High Spatiotemporal Resolution of Magnetic Dynamics in Mn - Ni - Ga via Four-Dimensional Lorentz Microscopy. Physical Review Applied, 2019, 12, .	3.8	5
57	Sodium-Ion Batteries: Superior Electrochemical Performance and Storage Mechanism of Na ₃ V ₂ (PO ₄) ₃ Cathode for Room-Temperature Sodium-Ion Batteries (Adv. Energy Mater. 2/2013). Advanced Energy Materials, 2013, 3, 138-138.	19.5	4
58	Ferroelectric polarization, domains structures and magnetic property of Y _{1-x} In _x MnO ₃ . Science Bulletin, 2014, 59, 5194-5198.	1.7	4
59	Ultrafast structural dynamics of boron nitride nanotubes studied using transmitted electrons. Nanoscale, 2017, 9, 13313-13319.	5.6	4
60	Defect effects on spatiotemporal evolution of photoinduced martensitic transition in MnNiSn. Applied Physics Letters, 2018, 113, 133103.	3.3	4
61	Magnetic quantification of single-crystalline Fe and Co nanowires via off-axis electron holography. Journal of Chemical Physics, 2020, 152, 114202.	3.0	4
62	Ultrafast lattice and electronic dynamics in single-walled carbon nanotubes. Nanoscale Advances, 2020, 2, 2808-2813.	4.6	4
63	Ultrafast electron microscopy in material science. Chinese Physics B, 2018, 27, 070703.	1.4	2
64	Formation of Zero-Field Magnetic Bubbles and Magnetic Phase Transitions in PbFe ₁₂ O ₁₉ via In Situ Lorentz Microscopy. Physica Status Solidi (B): Basic Research, 2019, 256, 1900157.	1.5	2
65	Microstructure of quasi-one-dimensional superconductor KCr ₃ As ₃ prepared by K-ion deintercalation. Journal of Physics Condensed Matter, 2021, 33, 215404.	1.8	2
66	Enhancement of lattice dynamics by an azimuthal surface plasmon on the femtosecond time scale in multi-walled carbon nanotubes. Nanoscale, 0, , .	5.6	2
67	Structure Characterization of CuCl ₂ -FeCl ₃ -H ₂ SO ₄ Graphite Intercalation Compounds. Chinese Journal of Chemical Physics, 2007, 20, 806-810.	1.3	1
68	Microstructure and oxidation states in multiferroic Lu ₂ (Fe,Mn) ₃ O ₇ . Journal of Applied Physics, 2012, 112, .	2.5	1
69	Persistent photoinduced modifications in the phase-separated states of $L_{a_{2-x}S_{r_x}r_{1-x}}Mn_{2}O_{7}$	3.2	1
70	Hot pressing to enhance the transport J_c of Sr _{0.6} K _{0.4} Fe ₂ As ₂ superconducting tapes. , 0, .		1
71	Flux Method Growth and Structure and Properties Characterization of Rare-Earth Iron Oxides Lu _{1-x} Sc _x FeO ₃ Single Crystals. Crystals, 2022, 12, 769.	2.2	1
72	NEW NONLINEAR OPTICAL MATERIAL ZnS.BaSO ₄ . Modern Physics Letters B, 1991, 05, 707-710.	1.9	0

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73	Resistivity and Field Electron Emission of Nanowires Formed by Electron Beam Induced Chemical Vapor Deposition. Chinese Journal of Chemical Physics, 2007, 20, 680-684.	1.3	0
74	Electrical and magnetic properties of electron doped $\text{Bi}_x\text{Ca}_{1-x}\text{MnO}_3$ ($x=0.33$) ceramics. Journal Wuhan University of Technology, Materials Science Edition, 2007, 22, 329-332.	1.0	0
75	Strong nonlinear current-voltage behaviour in iron oxyborate. AIP Advances, 2014, 4, .	1.3	0
76	Innenrücktitelbild: A Graphene Composite Material with Single Cobalt Active Sites: A Highly Efficient Counter Electrode for Dye-Sensitized Solar Cells (Angew. Chem. 23/2016). Angewandte Chemie, 2016, 128, 6905-6905.	2.0	0
77	Structural Channels and Atomic-Cluster Insertion in $\text{Cs}_x\text{Bi}_4\text{Te}_6$ ($x=1.25$) As Observed by Aberration-Corrected Scanning Transmission Electron Microscopy. Inorganic Chemistry, 2016, 55, 12791-12797.	4.0	0
78	Development and Application of Ultrafast Transmission Electron Microscope Based on Schottky Field Emission. Microscopy and Microanalysis, 2020, 26, 672-674.	0.4	0