

Li-Zhe Liu

List of Publications by Year in descending order

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73
papers

2,096
citations

279798

23
h-index

243625

44
g-index

73
all docs

73
docs citations

73
times ranked

2801
citing authors

#	ARTICLE	IF	CITATIONS
1	Half-metallic carbon nitride nanosheets with micro grid mode resonance structure for efficient photocatalytic hydrogen evolution. <i>Nature Communications</i> , 2018, 9, 3366.	12.8	219
2	Quantum confinement effects across two-dimensional planes in MoS ₂ quantum dots. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	180
3	Identification of oxygen vacancy types from Raman spectra of SnO ₂ nanocrystals. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1423-1426.	2.5	172
4	Spin-state reconfiguration induced by alternating magnetic field for efficient oxygen evolution reaction. <i>Nature Communications</i> , 2021, 12, 4827.	12.8	147
5	Photoinduced semiconductor-metal transition in ultrathin troilite FeS nanosheets to trigger efficient hydrogen evolution. <i>Nature Communications</i> , 2019, 10, 399.	12.8	133
6	High-efficiency hydrogen evolution from seawater using hetero-structured T/Td phase ReS ₂ nanosheets with cationic vacancies. <i>Nano Energy</i> , 2019, 55, 42-48.	16.0	102
7	Electric Strain in Dual Metal Janus Nanosheets Induces Structural Phase Transition for Efficient Hydrogen Evolution. <i>Joule</i> , 2019, 3, 2955-2967.	24.0	75
8	Dual-metal-driven Selective Pathway of Nitrogen Reduction in Orderly Atomic-hybridized Re ₂ MnS ₆ Ultrathin Nanosheets. <i>Nano Letters</i> , 2020, 20, 4960-4967.	9.1	69
9	Spin-related symmetry breaking induced by half-disordered hybridization in BixEr _{2-x} Ru _{2O7} pyrochlores for acidic oxygen evolution. <i>Nature Communications</i> , 2022, 13, .	12.8	66
10	Optical identification of oxygen vacancy types in SnO ₂ nanocrystals. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	65
11	Recharged Catalyst with Memristive Nitrogen Reduction Activity through Learning Networks of Spiking Neurons. <i>Journal of the American Chemical Society</i> , 2021, 143, 5378-5385.	13.7	56
12	Anchoring Black Phosphorus Nanoparticles onto ZnS Porous Nanosheets: Efficient Photocatalyst Design and Charge Carrier Dynamics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8157-8167.	8.0	53
13	Cubic In ₂ O ₃ Microparticles for Efficient Photoelectrochemical Oxygen Evolution. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4298-4304.	4.6	49
14	Oxygen-vacancy and depth-dependent violet double-peak photoluminescence from ultrathin cuboid SnO ₂ nanocrystals. <i>Applied Physics Letters</i> , 2012, 100, 121903.	3.3	45
15	Complementary Metal Oxide Semiconductor-Compatible, High-Mobility, $\bar{1}11\bar{0}$ -Oriented GaSb Nanowires Enabled by Vapor-Solid Chemical Vapor Deposition. <i>ACS Nano</i> , 2017, 11, 4237-4246.	14.6	38
16	Self-Assembly of Porphyrin-Based Metallacages into Octahedra. <i>Journal of the American Chemical Society</i> , 2020, 142, 17903-17907.	13.7	37
17	Nonpolar-Oriented Wurtzite InP Nanowires with Electron Mobility Approaching the Theoretical Limit. <i>ACS Nano</i> , 2018, 12, 10410-10418.	14.6	30
18	Ultrahigh quantum efficiency photodetector and ultrafast reversible surface wettability transition of square In ₂ O ₃ nanowires. <i>Nano Research</i> , 2017, 10, 2772-2781.	10.4	27

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19	Resonant Raman scattering from CdS nanocrystals enhanced by interstitial Mn. Applied Physics Letters, 2013, 102, .	3.3	24
20	Optical Identification of Topological Defect Types in Monolayer Arsenene by First-Principles Calculation. Journal of Physical Chemistry C, 2016, 120, 24917-24924.	3.1	24
21	Highly Efficient Solar-Driven Photothermal Performance in Au-Carbon Core-Shell Nanospheres. Solar Rrl, 2017, 1, 1600032.	5.8	24
22	Phase-Engineering-Induced Generation and Control of Highly Anisotropic and Robust Excitons in Few-Layer ReS ₂ . Journal of Physical Chemistry Letters, 2017, 8, 2719-2724.	4.6	24
23	Electronic structure and magnetism in <i>g</i> -C ₄ N ₃ controlled by strain engineering. Applied Physics Letters, 2015, 106, .	3.3	23
24	Selective and high-sensitive label-free detection of ascorbic acid by carbon nitride quantum dots with intense fluorescence from lone pair states. Talanta, 2019, 196, 530-536.	5.5	23
25	Growth of tin oxide nanorods induced by nanocube-oriented coalescence mechanism. Applied Physics Letters, 2011, 98, 133102.	3.3	21
26	Charged excited state induced by ultrathin nanotip drives highly efficient hydrogen evolution. Applied Catalysis B: Environmental, 2020, 262, 118305.	20.2	20
27	Resorcinarene Induced Assembly of Carotene and Lutein into Hierarchical Superstructures. Journal of the American Chemical Society, 2020, 142, 20583-20587.	13.7	19
28	Electronic states and photoluminescence of TiO ₂ nanotubes with adsorbed surface oxygen. Applied Physics Letters, 2012, 100, 121904.	3.3	17
29	Longitudinal optical phonon-plasmon coupling in luminescent 3C-SiC nanocrystal films. Optics Letters, 2010, 35, 4024.	3.3	15
30	Reaction kinetic acceleration induced by atomic-hybridized channels in carbon quantum dot/ReS ₂ composites for efficient Cr(VI) reduction. Applied Catalysis B: Environmental, 2022, 300, 119807.	20.2	15
31	Electronic reconfiguration induced by neighboring exchange interaction at double perovskite oxide interface for highly efficient oxygen evolution reaction. Chemical Engineering Journal, 2022, 432, 134330.	12.7	15
32	Raman investigation of oxidation mechanism of silicon nanowires. Applied Physics Letters, 2009, 95, .	3.3	14
33	Distorted Monolayer ReS ₂ with Low-Magnetic-Field Controlled Magnetoelectricity. ACS Nano, 2019, 13, 2334-2340.	14.6	14
34	Twinning Ge _{0.54} Si _{0.46} nanocrystal growth mechanism in amorphous SiO ₂ films. Applied Physics Letters, 2010, 96, .	3.3	13
35	Identification of local silicon cluster nanostructures inside Si _x Ge _{1-x} alloy nanocrystals by Raman spectroscopy. Chemical Communications, 2010, 46, 5539.	4.1	13
36	Enhancement of Ferromagnetism in Nonmagnetic Metal Oxide Nanoparticles by Facet Engineering. Small, 2017, 13, 1602951.	10.0	12

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37	Polarization-induced efficient charge separation in an electromagnetic coupling MOF for enhancing CO ₂ photocatalytic reduction. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 402-409.	9.4	12
38	Influence of GeSi interfacial layer on Ge-Ge optical phonon mode in SiO ₂ films embedded with Ge nanocrystals. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	11
39	3C-SiC nanocrystals/TiO ₂ nanotube heterostructures with enhanced photocatalytic performance. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	11
40	Photoluminescence from colloids containing aluminum hydroxide nanocrystals with uniform size. <i>Applied Physics Letters</i> , 2010, 97, 121901.	3.3	10
41	Identification of Lattice Oxygen in Few-Layer Black Phosphorous Exfoliated in Ultrahigh Vacuum and Largely Improved Ambipolar Field-Effect Mobilities by Hydrogenation and Phosphorization. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39804-39811.	8.0	10
42	Ferromagnetism regulated by edged cutting and optical identification in monolayer PtSe ₂ nanoribbons. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 225007.	2.8	10
43	Size-independent low-frequency Raman scattering in Ge-nanocrystal-embedded SiO ₂ films. <i>Optics Letters</i> , 2010, 35, 1022.	3.3	9
44	Stimulus-responsive electrochemiluminescence from self-assembled block copolymer and nonpolar carbon quantum dot composite nanospheres. <i>Carbon</i> , 2019, 147, 532-539.	10.3	9
45	Ordered amorphous silicon nanoisland arrays and reflection spectral dependence on nanoisland geometrical parameters. <i>Applied Physics Letters</i> , 2009, 94, 151903.	3.3	8
46	Surface carbon layer and visible-light photocatalytic activities of carbon-coated TiO ₂ nanotubes synthesized in organic electrolytes. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 105, 703-707.	2.3	7
47	Morphology-dependent low-frequency Raman scattering in ultrathin spherical, cubic, and cuboid SnO ₂ nanocrystals. <i>Applied Physics Letters</i> , 2011, 99, 251902.	3.3	7
48	Dopant-Induced Surface Magnetism in β -SiC Controlled by Dopant Depth. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25429-25433.	3.1	7
49	Engineering the carrier dynamics of g-C ₃ N ₄ by rolling up planar sheets into nanotubes via ultrasonic cavitation. <i>Nanoscale</i> , 2018, 10, 22448-22455.	5.6	7
50	Oxygen-defect-dependent ferromagnetism and strain modulation in free-standing two-dimensional TiO ₂ monolayers. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27176-27184.	2.8	7
51	Constructing Asymmetrical Ni-Centered {NiN ₂ O ₄ } Octahedra in Layered Metal-Organic Structures for Near-Room-Temperature Single-Phase Magnetoelectricity. <i>Journal of the American Chemical Society</i> , 2020, 142, 12841-12849.	13.7	7
52	3C-SiC/ZnS heterostructured nanospheres with high photocatalytic activity and enhancement mechanism. <i>AIP Advances</i> , 2015, 5, .	1.3	6
53	Enhancing hydrogen evolution reaction by strain engineering in free-standing doped FeS monolayer. <i>Materials Chemistry and Physics</i> , 2020, 239, 122046.	4.0	6
54	Light-Controlled Ferromagnetism in Porphyrin Functionalized Ultrathin FeS Nanosheets. <i>Advanced Optical Materials</i> , 2020, 8, 2000046.	7.3	6

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55	Surface-polarization-induced formation of amorphous foliaceous SiO ₂ helical nanobelts. Applied Physics Letters, 2009, 94, 253110.	3.3	5
56	Enhanced fluorescence from dye molecules by Au nanoparticles on asymmetric double-stranded DNA and mechanism. Applied Physics Letters, 2014, 104, .	3.3	5
57	Strong histamine torsion Raman spectrum enables direct, rapid, and ultrasensitive detection of allergic diseases. IScience, 2021, 24, 103384.	4.1	5
58	Si ¹⁶ Si optical phonon behavior in localized Si clusters of Si _x Ge _{1-x} Alloy Nanocrystals. Applied Physics A: Materials Science and Processing, 2011, 103, 361-365.	2.3	4
59	Prediction of room-temperature multiferroicity in strained MoCr ₂ S ₆ monolayer. Journal of Applied Physics, 2020, 127, 155302.	2.5	4
60	Defect-engineering-enhanced electrical manipulation of anisotropic excitons in two-dimensional ReS ₂ . Surfaces and Interfaces, 2021, 27, 101562.	3.0	4
61	Regulation of oxygen vacancy types on SnO ₂ (110) surface by external strain. AIP Advances, 2016, 6, 055102.	1.3	3
62	Electronic coupling between sulfur adsorption and oxygen vacancy in TiO ₂ microstructures for room-temperature ferromagnetism. Journal Physics D: Applied Physics, 2017, 50, 365304.	2.8	3
63	Electronic structure and the hydrogen evolution reaction in layered ReS ₂ regulated by alkali-metal atom intercalation. Journal Physics D: Applied Physics, 2019, 52, 165301.	2.8	3
64	Superficial state regulation in double-anion-coupled Ni nanostructure for efficient hydrogen evolution reaction. Journal Physics D: Applied Physics, 2021, 54, 285502.	2.8	3
65	Multi-electron-channel integration to accelerate photogenerated carrier reaction kinetics for efficient sulfadiazine degradation. Applied Catalysis A: General, 2022, 633, 118513.	4.3	3
66	The exchange between anions and cations induced by coupled plasma and thermal annealing treatment for room-temperature ferromagnetism. Physical Chemistry Chemical Physics, 2022, 24, 7001-7006.	2.8	3
67	Electronic structure and optical properties of FeSi ₂ (100)/Si(001) interface at high pressure. Applied Physics Letters, 2012, 101, 111909.	3.3	2
68	Identification of nasopharyngeal carcinoma from photoluminescence spectra of 3C-SiC nanocrystals. Journal of Applied Physics, 2017, 122, 124702.	2.5	2
69	Crystalline Core/Shell Si/SiO ₂ ; Nanotubes Formed via Interfacial Stress Imbalance. Journal of Nanoscience and Nanotechnology, 2010, 10, 5583-5586.	0.9	1
70	Photoluminescence and magnetism integrated multifunctional black phosphorus probes through controllable P-O bond orbital hybridization. Physical Chemistry Chemical Physics, 2021, 23, 22476-22482.	2.8	1
71	Electronic structure transformation induced by dual-metal orbital hybridization in Re _x Mn _{1-x} S ₂ monolayer for hydrogen evolution reaction. Surfaces and Interfaces, 2022, 28, 101671.	3.0	1
72	Electronic reconfiguration in layered Bi ₂ Se ₃ surface induced by dual-metal hybridization for hydrogen evolution reaction. Surfaces and Interfaces, 2022, 29, 101779.	3.0	1

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73	Orbital Hybridization Induced by Double-Anion Coordination to Enhance Room-Temperature Ferromagnetic Response. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	0