

# Liang-Qing Zhu

## List of Publications by Year in descending order

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papers

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citations

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#	ARTICLE	IF	CITATIONS
1	Designing Monoclinic Heterophase Coexistence for the Enhanced Piezoelectric Performance in Ternary Lead-Based Relaxor Ferroelectrics. ACS Applied Materials & Interfaces, 2022, 14, 10535-10545.	8.0	2
2	High Quality $P$ -Type Mg-Doped $\text{In}_2\text{Ga}_2\text{O}_3$ Films for Solar-Blind Photodetectors. IEEE Electron Device Letters, 2022, 43, 580-583.	3.9	13
3	Band Structure and Lattice Vibration of Elemental Tellurium Investigated by Temperature-Dependent Mid-Far Infrared Transmission and Raman Spectroscopy. Physica Status Solidi (B): Basic Research, 2022, 259.	1.5	9
4	Modulated Photoluminescence Mapping of Long-Wavelength Infrared $\ln\text{As}$ Type-II Superlattice: In-Plane Optoelectronic Uniformity. Physical Review Applied, 2021, 15, .	3.8	7
5	High Conductance Margin for Efficient Neuromorphic Computing Enabled by Stacking Nonvolatile van der Waals Transistors. Physical Review Applied, 2021, 16, .	3.8	8
6	Thermal Conductivity of Large-Area Polycrystalline $\text{MoSe}_2$ Films Grown by Chemical Vapor Deposition. ACS Omega, 2021, 6, 30526-30533.	3.5	1
7	Effects of SF6 decomposition components and concentrations on the discharge faults and insulation defects in GIS equipment. Scientific Reports, 2020, 10, 15039.	3.3	12
8	Ferroelectric-Modulated $\text{MoS}_2$ Field-Effect Transistors as Multilevel Nonvolatile Memory. ACS Applied Materials & Interfaces, 2020, 12, 44902-44911.	8.0	13
9	Evaluating interface roughness and micro-fluctuation potential of $\text{InAs}/\text{GaSb}$ superlattices by mid-infrared magnetophotoluminescence. Applied Physics Letters, 2020, 117, 081104.	3.3	1
10	Phase transitions and phonon thermodynamics in giant piezoelectric Mn-doped $\text{K}_x\text{Mn}_2\text{O}_5$ crystals studied by Raman scattering. Physical Review B, 2020, 102, .	3.2	23
11	Enhanced carrier separation in ferroelectric $\text{In}_2\text{Se}_3/\text{MoS}_2$ van der Waals heterostructure. Journal of Materials Chemistry C, 2020, 8, 11160-11167.	5.5	44
12	Temperature and pressure manipulation of magnetic ordering and phonon dynamics with phase transition in multiferroic $\text{GdFeO}_3$ : Evidence from Raman scattering. Physical Review B, 2020, 102, .	3.2	16
13	Exploring lattice symmetry evolution with discontinuous phase transition by Raman scattering criteria: The single-crystalline $\text{Bi}_2\text{Te}_3$ model system. Physical Review B, 2019, 100, .	3.2	107843
14	Spatially resolved and two-dimensional mapping modulated infrared photoluminescence spectroscopy with functional wavelength up to $20\ \mu\text{m}$ . Review of Scientific Instruments, 2019, 90, 093106.	1.3	7
15	Electric-Double-Layer Oriented Field-Screening Effect on High-Resolution Electromechanical Imaging in Conductive Solutions. Physical Review Applied, 2019, 12, .	3.8	1
16	$\text{Bi}$ -Induced Electron Concentration Enhancement Being Responsible for Photoluminescence Blueshift and Broadening in $\text{InAs}$ Films. Physica Status Solidi (B): Basic Research, 2019, 256, 1800694.	1.5	1
17	Probing Nanoscale Electromechanical Behaviors of Relaxor Ferroelectrics in Highly Conductive Liquid Environments. Physical Review Applied, 2019, 11, .	3.8	1
18	Bismuth-induced band-tail states in $\text{GaAsBi}$ probed by photoluminescence. Applied Physics Letters, 2019, 114, 052104.	3.3	7

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19	Decoding Phases of Matter by Machine-Learning Raman Spectroscopy. <i>Physical Review Applied</i> , 2019, 12, .	3.8	17
20	Modified magnetization and electron transition behavior in Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> , Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> -CoFe <sub>2</sub> O <sub>4</sub> and Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> -NiFe <sub>2</sub> O <sub>4</sub> . <i>Ceramics International</i> , 2018, 44, 2491-2495.	4.8	8
21	Midinfrared Photoluminescence up to 290 K Reveals Radiative Mechanisms and Substrate Doping-Type Effects of InAs Nanowires. <i>Nano Letters</i> , 2017, 17, 1545-1551.	9.1	19
22	Negative thermal quenching of below-bandgap photoluminescence in InPBi. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	19
23	Above-bandgap photoluminescence and interfacial channels in Hg <sub>1-x</sub> Cd <sub>x</sub> Te heterostructure. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 377-383.	1.5	1
24	Annealing effects on Cd <sub>0.96</sub> Zn <sub>0.04</sub> Te crystals with Te inclusions probed by photoluminescence spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 1612-1615.	1.5	1
25	Photoluminescence and magnetization effect in a Hg <sub>1-x</sub> Mn <sub>x</sub> Te single crystal investigated by infrared		
26	Spin-glass state induced low field magnetization step effect in a Hg <sub>1-x</sub> Mn <sub>x</sub> Te single crystal. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2015-2019.	1.5	0
27	Influence of local magnetization on acceptor-bound complex state in Hg <sub>1-x</sub> Mn <sub>x</sub> Te single crystals. <i>Journal of Applied Physics</i> , 2015, 118, 045707.	2.5	4
28	Photoionization absorption and zero-field spin splitting of acceptor-bound magnetic polaron in p-type Hg <sub>1-x</sub> Mn <sub>x</sub> Te single crystals. <i>Journal of Applied Physics</i> , 2012, 111, 083502.	2.5	5
29	Competition of compressive strain with substrate misorientation in CuPt-type ordered GaInP/AlGaInP quantum wells. <i>Journal of Applied Physics</i> , 2011, 109, 013509.	2.5	8
30	Backside-illuminated infrared photoluminescence and photorefectance: Probe of vertical nonuniformity of HgCdTe on GaAs. <i>Applied Physics Letters</i> , 2010, 96, 121915.	3.3	40
31	Photoluminescence Evolution with Deposition Thickness of Ge Nanostructures Embedded in GaSb. <i>Physica Status Solidi (B): Basic Research</i> , 0, , 2100418.	1.5	0