

Liang-Qing Zhu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Enhanced carrier separation in ferroelectric $\text{In}_2\text{Se}_3/\text{MoS}_2$ van der Waals heterostructure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11160-11167.	5.5	44
2	Backside-illuminated infrared photoluminescence and photoreflectance: Probe of vertical nonuniformity of HgCdTe on GaAs . <i>Applied Physics Letters</i> , 2010, 96, 121915.	3.3	40
3	Phase transitions and phonon thermodynamics in giant piezoelectric Mn-doped $\text{K}_x\text{Na}_{1-x}\text{Mg}_2\text{F}_4$ crystals studied by Raman scattering. <i>Physical Review B</i> , 2020, 102, .	3.2	23
4	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
5	Negative thermal quenching of below-bandgap photoluminescence in InPbI . <i>Applied Physics Letters</i> , 2017, 110, .	3.3	19
6	Exploring lattice symmetry evolution with discontinuous phase transition by Raman scattering criteria: The single-crystalline Bi_2TeO_7 model system. <i>Physical Review B</i> , 2019, 100, .	3.2	16
7	Decoding Phases of Matter by Machine-Learning Raman Spectroscopy. <i>Physical Review Applied</i> , 2019, 12, .	3.8	17
8	Temperature and pressure manipulation of magnetic ordering and phonon dynamics with phase transition in multiferroic GdFeO_3 : Evidence from Raman scattering. <i>Physical Review B</i> , 2020, 102, .	3.2	16
9	Ferroelectric-Modulated MoS_2 Field-Effect Transistors as Multilevel Nonvolatile Memory. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44902-44911.	8.0	13
10	High Quality p -Type Mg-Doped $\text{In}_2\text{Ga}_2\text{O}_3$ Films for Solar-Blind Photodetectors. <i>IEEE Electron Device Letters</i> , 2022, 43, 580-583.	3.9	13
11	Effects of SF_6 decomposition components and concentrations on the discharge faults and insulation defects in GIS equipment. <i>Scientific Reports</i> , 2020, 10, 15039.	3.3	12
12	Band Structure and Lattice Vibration of Elemental Tellurium Investigated by Temperature-Dependent Mid-Far Infrared Transmission and Raman Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, .	1.5	9
13	Competition of compressive strain with substrate misorientation in CuPt -type ordered $\text{GaInP}/\text{AlGaInP}$ quantum wells. <i>Journal of Applied Physics</i> , 2011, 109, 013509.	2.5	8
14	Modified magnetization and electron transition behavior in $\text{Bi}_2\text{Fe}_4\text{O}_9$, $\text{Bi}_2\text{Fe}_4\text{O}_9\text{-CoFe}_2\text{O}_4$ and $\text{Bi}_2\text{Fe}_4\text{O}_9\text{-NiFe}_2\text{O}_4$. <i>Ceramics International</i> , 2018, 44, 2491-2495.	4.8	8
15	High Conductance Margin for Efficient Neuromorphic Computing Enabled by Stacking Nonvolatile van der Waals Transistors. <i>Physical Review Applied</i> , 2021, 16, .	3.8	8
16	Spatially resolved and two-dimensional mapping modulated infrared photoluminescence spectroscopy with functional wavelength up to $20\ \mu\text{m}$. <i>Review of Scientific Instruments</i> , 2019, 90, 093106.	1.3	7
17	Bismuth-induced band-tail states in GaAsBi probed by photoluminescence. <i>Applied Physics Letters</i> , 2019, 114, 052104.	3.3	7
18	Modulated Photoluminescence Mapping of Long-Wavelength Infrared InAs/GaSb Type-II Superlattice: In-Plane Optoelectronic Uniformity. <i>Physical Review Applied</i> , 2021, 15, .	3.8	7

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19	Induced magnetization effect in $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$ single crystal investigated by infrared photoluminescence. Journal of Applied Physics, 2012, 111, 083502.	2.5	5
20	Photoionization absorption and zero-field spin splitting of acceptor-bound magnetic polaron in p-type $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$ single crystals. Journal of Applied Physics, 2012, 111, 083502.	2.5	5
21	Influence of local magnetization on acceptor-bound complex state in $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$ single crystals. Journal of Applied Physics, 2015, 118, 045707.	2.5	4
22	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
23	Above-bandgap photoluminescence and interfacial channels in $\text{Hg}_{1-x}\text{Cd}_x\text{Te}/\text{CdTe}$ heterostructure. Physica Status Solidi (B): Basic Research, 2016, 253, 377-383.	1.5	1
24	Annealing effects on $\text{Cd}_{0.96}\text{Zn}_{0.04}\text{Te}$ crystals with Te inclusions probed by photoluminescence spectroscopy. Physica Status Solidi (B): Basic Research, 2016, 253, 1612-1615.	1.5	1
25	Electric-Double-Layer Oriented Field-Screening Effect on High-Resolution Electromechanical Imaging in Conductive Solutions. Physical Review Applied, 2019, 12, .	3.8	1
26	Bi-Induced Electron Concentration Enhancement Being Responsible for Photoluminescence Blueshift and Broadening in InAs Films. Physica Status Solidi (B): Basic Research, 2019, 256, 1800694.	1.5	1
27	Probing Nanoscale Electromechanical Behaviors of Relaxor Ferroelectrics in Highly Conductive Liquid Environments. Physical Review Applied, 2019, 11, .	3.8	1
28	Evaluating interface roughness and micro-fluctuation potential of InAs/GaSb superlattices by mid-infrared magnetophotoluminescence. Applied Physics Letters, 2020, 117, 081104.	3.3	1
29	Thermal Conductivity of Large-Area Polycrystalline MoSe_2 Films Grown by Chemical Vapor Deposition. ACS Omega, 2021, 6, 30526-30533.	3.5	1
30	Spin-glass state induced low field magnetization-step effect in a $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$ single crystal. Physica Status Solidi (B): Basic Research, 2016, 253, 2015-2019.	1.5	0
31	Photoluminescence Evolution with Deposition Thickness of Ge Nanostructures Embedded in GaSb. Physica Status Solidi (B): Basic Research, 0, , 2100418.	1.5	0