Shula Chen

List of Publications by Year
in descending order

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54	1,913	304743	254184
papers	citations	22 h-index	43 g-index

55	55	55	2968
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design rules for minimizing voltage losses in high-efficiency organic solar cells. Nature Materials, 2018, 17, 703-709.	27.5	701
2	Interlayer exciton formation, relaxation, and transport in TMD van der Waals heterostructures. Light: Science and Applications, 2021, 10, 72.	16.6	184
3	WO₃â€“WS₂ Vertical Bilayer Heterostructures with High Photoluminescence Quantum Yield. Journal of the American Chemical Society, 2019, 141, 11754-11758.	13.7	69
4	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. ACS Nano, 2019, 13, 7996-8003.	14.6	64
5	Wavelengthâ€Tunable Midâ€Infrared Lasing from Black Phosphorus Nanosheets. Advanced Materials, 2020, 32, e1808319.	21.0	56
6	Dilute Nitride Nanowire Lasers Based on a GaAs/GaNAs Core/Shell Structure. Nano Letters, 2017, 17, 1775-1781.	9.1	45
7	Controlled Synthesis and Photonics Applications of Metal Halide Perovskite Nanowires. Small Methods, 2019, 3, 1800294.	8.6	45
8	Room temperature near unity spin polarization in 2D Van der Waals heterostructures. Nature Communications, 2020, 11, 4442.	12.8	44
9	Probing and Manipulating Carrier Interlayer Diffusion in van der Waals Multilayer by Constructing Type-I Heterostructure. Nano Letters, 2019, 19, 7217-7225.	9.1	42
10	Turning ZnO into an Efficient Energy Upconversion Material by Defect Engineering. Advanced Functional Materials, 2014, 24, 3760-3764.	14.9	36
11	Nearâ€Unity Polarization of Valleyâ€Dependent Secondâ€Harmonic Generation in Stacked TMDC Layers and Heterostructures at Room Temperature. Advanced Materials, 2020, 32, e1908061.	21.0	36
12	Evidence for coupling between exciton emissions and surface plasmon in Ni-coated ZnO nanowires. Nanotechnology, 2012, 23, 425201.	2.6	35
13	Suppression of non-radiative surface recombination by N incorporation in GaAs/GaNAs core/shell nanowires. Scientific Reports, 2015, 5, 11653.	3.3	35
14	Long lifetime of free excitons in ZnO tetrapod structures. Applied Physics Letters, 2010, 96, .	3.3	30
15	Mechanism for radiative recombination and defect properties of GaP/GaNP core/shell nanowires. Applied Physics Letters, 2012, 101, 163106.	3.3	30
16	Evidence for moirÃ© intralayer excitons in twisted WSe2/WSe2 homobilayer superlattices. Light: Science and Applications, 2022, 11, .	16.6	29
17	Near-Infrared Lasing at 1 Î¼m from a Dilute-Nitride-Based Multishell Nanowire. Nano Letters, 2019, 19, 885-890.	9.1	28
18	Vibronic coherence contributes to photocurrent generation in organic semiconductor heterojunction diodes. Nature Communications, 2020, 11, 617.	12.8	28

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19	Origin of radiative recombination and manifestations of localization effects in GaAs/GaNAs core/shell nanowires. Applied Physics Letters, 2014, 105, .	3.3	27
20	Efficient upconversion of photoluminescence via two-photon absorption in bulk and nanorod ZnO. Applied Physics B: Lasers and Optics, 2012, 108, 919-924.	2.2	26
21	An Electrically Controlled Wavelength-Tunable Nanoribbon Laser. ACS Nano, 2020, 14, 3397-3404.	14.6	26
22	Mechanism of Extreme Optical Nonlinearities in Spiral WS₂ above the Bandgap. Nano Letters, 2020, 20, 2667-2673.	9.1	25
23	Efficient control of emission and carrier polarity in WS2 monolayer by indium doping. Science China Materials, 2021, 64, 1449-1456.	6.3	21
24	A Waveguide-Integrated Two-Dimensional Light-Emitting Diode Based on p-Type WSe₂/n-Type CdS Nanoribbon Heterojunction. ACS Nano, 2022, 16, 4371-4378.	14.6	17
25	Dynamics of donor bound excitons in ZnO. Applied Physics Letters, 2013, 102, .	3.3	16
26	Room-temperature polarized spin-photon interface based on a semiconductor nanodisk-in-nanopillar structure driven by few defects. Nature Communications, 2018, 9, 3575.	12.8	16
27	Photoluminescence Lightening: Extraordinary Oxygen Modulated Dynamics in WS₂ Monolayers. Nano Letters, 2022, 22, 2112-2119.	9.1	16
28	Defect properties of ZnO nanowires revealed from an optically detected magnetic resonance study. Nanotechnology, 2013, 24, 015701.	2.6	15
29	Optical Study of Sub-10 nm In_{0.3}Ga_{0.7}N Quantum Nanodisks in GaN Nanopillars. ACS Photonics, 2017, 4, 1851-1857.	6.6	15
30	Slowdown of light due to exciton-polariton propagation in ZnO. Physical Review B, 2011, 83, .	3.2	13
31	On the origin of suppression of free exciton no-phonon emission in ZnO tetrapods. Applied Physics Letters, 2010, 96, .	3.3	12
32	Defect formation in GaAs/GaNxAs1-x core/shell nanowires. Applied Physics Letters, 2016, 109, .	3.3	12
33	Effects of Nitrogen Incorporation on Structural and Optical Properties of GaNAsP Nanowires. Journal of Physical Chemistry C, 2017, 121, 7047-7055.	3.1	12
34	Effect of Crystal Symmetry on the Spin States of Fe³⁺ and Vibration Modes in Lead-free Double-Perovskite Cs₂AgBi(Fe)Br₆. Journal of Physical Chemistry Letters, 2020, 11, 4873-4878.	4.6	11
35	Temperature-dependent spin injection dynamics in InGaAs/GaAs quantum well-dot tunnel-coupled nanostructures. Journal of Applied Physics, 2016, 119, .	2.5	10
36	Effects of Strong Band-Tail States on Exciton Recombination Dynamics in Dilute Nitride GaP/GaNP Core/Shell Nanowires. Journal of Physical Chemistry C, 2018, 122, 19212-19218.	3.1	10

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37	Phase Tailoring of Ruddlesdenâ€“Popper Perovskite at Fixed Large Spacer Cation Ratio. Small, 2021, 17, e2100560.	10.0	10
38	Effects of N implantation on defect formation in ZnO nanowires. Thin Solid Films, 2019, 687, 137449.	1.8	9
39	Optical properties of GaP/GaNP core/shell nanowires: a temperature-dependent study. Nanoscale Research Letters, 2013, 8, 239.	5.7	7
40	Power-dependent spin amplification in (In, Ga)As/GaAs quantum well via Pauli blocking by tunnel-coupled quantum dot ensembles. Applied Physics Letters, 2016, 108, .	3.3	7
41	Effect of exciton transfer on recombination dynamics in vertically nonuniform GaAsSb epilayers. Applied Physics Letters, 2019, 114, .	3.3	7
42	Nanometer scale fabrication and optical response of InGaN/GaN quantum disks. Nanotechnology, 2016, 27, 425401.	2.6	6
43	An Efficient Deep-Subwavelength Second Harmonic Nanoantenna Based on Surface Plasmon-Coupled Dilute Nitride GaNP Nanowires. Nano Letters, 2021, 21, 3426-3434.	9.1	6
44	Zeeman splitting and dynamics of an isoelectronic bound exciton near the band edge of ZnO. Physical Review B, 2012, 86, .	3.2	5
45	Coreâ€“shell carrier and exciton transfer in GaAs/GaNAs coaxial nanowires. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 04J104.	1.2	5
46	Identification of a Nitrogen-related acceptor in ZnO nanowires. Nanoscale, 2019, 11, 10921-10926.	5.6	5
47	Defect-induced distinct exciton-exciton interactions in WS2 monolayers. Science China Materials, 2022, 65, 2502-2510.	6.3	4
48	Temperature-dependent radiative and non-radiative dynamics of photo-excited carriers in extremely high-density and small InGaN nanodisks fabricated by neutral-beam etching using bio-nano-templates. Journal of Applied Physics, 2018, 123, 204305.	2.5	2
49	Magneto-optical properties and recombination dynamics of isoelectronic bound excitons in ZnO. , 2014, , .		1
50	Spin dynamics of isoelectronic bound excitons in ZnO. Physical Review B, 2014, 89, .	3.2	1
51	Long delays of light in ZnO caused by excitonâ€polariton propagation. Physica Status Solidi (B): Basic Research, 2012, 249, 1307-1311.	1.5	0
52	Back Cover: Long delays of light in ZnO caused by exciton-polariton propagation (Phys. Status Solidi B) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.5	0
53	Transient photoluminescence study on spin dynamics in InGaAs-based coupled nanostructures of quantum dots with quantum wells. , 2016, , .		0
54	Growth optimization of spin-transport barriers used for spin-polarized light-emitting diodes based on InGaAs quantum dots. , 2016, , .		0