Shining Zhu

List of Publications by Citations

248 papers	11,348 citations	45 h-index	104 g-index
273 ext. papers	14,280 ext. citations	7 avg, IF	6.59 L-index

#	Paper	IF	Citations
248	3D self-assembly of aluminium nanoparticles for plasmon-enhanced solar desalination. *Nature Photonics*, **2016**, 10, 393-398	33.9	1238
247	Graphene oxide-based efficient and scalable solar desalination under one sun with a confined 2D water path. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13953-13958	11.5	724
246	A broadband achromatic metalens in the visible. *Nature Nanotechnology*, **2018**, 13, 227-232	28.7	723
245	Mushrooms as Efficient Solar Steam-Generation Devices. *Advanced Materials*, **2017**, 29, 1606762	24	654
244	Stereometamaterials. *Nature Photonics*, **2009**, 3, 157-162	33.9	569
243	Tailoring Graphene Oxide-Based Aerogels for Efficient Solar Steam Generation under One Sun. *Advanced Materials*, **2017**, 29, 1604031	24	537
242	Broadband achromatic optical metasurface devices. *Nature Communications*, **2017**, 8, 187	17.4	461
241	Flexible and Salt Resistant Janus Absorbers by Electrospinning for Stable and Efficient Solar Desalination. *Advanced Energy Materials*, **2018**, 8, 1702884	21.8	423
240	Enhancement of Interfacial Solar Vapor Generation by Environmental Energy. *Joule*, **2018**, 2, 1331-1338	27.8	301
239	Three-dimensional artificial transpiration for efficient solar waste-water treatment. *National Science Review*, **2018**, 5, 70-77	10.8	275
238	Achromatic metalens array for full-colour light-field imaging. *Nature Nanotechnology*, **2019**, 14, 227-231	28.7	219
237	Experimental Realization of Second Harmonic Generation in a Fibonacci Optical Superlattice of LiTaO3. *Physical Review Letters*, **1997**, 78, 2752-2755	7.4	217
236	Extraordinary acoustic transmission through a 1D grating with very narrow apertures. *Physical Review Letters*, **2007**, 99, 174301	7.4	204
235	Enhanced sensing performance by the plasmonic analog of electromagnetically induced transparency in active metamaterials. *Applied Physics Letters*, **2010**, 97, 114101	3.4	185
234	A water lily-inspired hierarchical design for stable and efficient solar evaporation of high-salinity brine. *Science Advances*, **2019**, 5, eaaw7013	14.3	182
233	Negative birefraction of acoustic waves in a sonic crystal. *Nature Materials*, **2007**, 6, 744-8	27	146
232	Interfacial Solar Steam Generation Enables Fast-Responsive, Energy-Efficient, and Low-Cost Off-Grid Sterilization. *Advanced Materials*, **2018**, 30, e1805159	24	146

231	The revival of thermal utilization from the Sun: interfacial solar vapor generation. *National Science Review*, **2019**, 6, 562-578	10.8	134
230	Over 10 kg m h Evaporation Rate Enabled by a 3D Interconnected Porous Carbon Foam. *Joule*, **2020**, 4, 928-937	27.8	131
229	Storage and Recycling of Interfacial Solar Steam Enthalpy. *Joule*, **2018**, 2, 2477-2484	27.8	129
228	Optical properties of an ionic-type phononic crystal. *Science*, **1999**, 284, 1822-4	33.3	123
227	Experimental demonstration of a three-dimensional lithium niobate nonlinear photonic crystal. *Nature Photonics*, **2018**, 12, 596-600	33.9	117
226	Plasmonically induced transparent magnetic resonance in a metallic metamaterial composed of asymmetric double bars. *Optics Express*, **2010**, 18, 18229-34	3.3	117
225	Acoustic surface evanescent wave and its dominant contribution to extraordinary acoustic transmission and collimation of sound. *Physical Review Letters*, **2010**, 104, 164301	7.4	114
224	Dual functional asymmetric plasmonic structures for solar water purification and pollution detection. *Nano Energy*, **2018**, 51, 451-456	17.1	108
223	Flexible coherent control of plasmonic spin-Hall effect. *Nature Communications*, **2015**, 6, 8360	17.4	106
222	Metalens-array-based high-dimensional and multiphoton quantum source. *Science*, **2020**, 368, 1487-1490	33.3	89
221	Electron phonon interaction effect on optical absorption in cylindrical quantum wires. *Solid State Communications*, **2006**, 139, 76-79	1.6	87
220	Exciton effects on the nonlinear optical rectification in one-dimensional quantum dots. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2005**, 335, 175-181	2.3	82
219	Broad band focusing and demultiplexing of in-plane propagating surface plasmons. *Nano Letters*, **2011**, 11, 4357-61	11.5	72
218	Accumulating microparticles and direct-writing micropatterns using a continuous-wave laser-induced vapor bubble. *Lab on A Chip*, **2011**, 11, 3816-20	7.2	71
217	Topologically protected interface mode in plasmonic waveguide arrays. *Laser and Photonics Reviews*, **2015**, 9, 392-398	8.3	59
216	Plasmonic polarization generator in well-routed beaming. *Light: Science and Applications*, **2015**, 4, e330-e339	17.7	58
215	Tuning Transpiration by Interfacial Solar Absorber-Leaf Engineering. *Advanced Science*, **2018**, 5, 1700497	13.6	57
214	Efficient nonlinear beam shaping in three-dimensional lithium niobate nonlinear photonic crystals. *Nature Communications*, **2019**, 10, 4193	17.4	56

213	Direct Observation of Ferroelectric Domains in LiTaO3 Using Environmental Scanning Electron Microscopy. *Physical Review Letters*, **1997**, 79, 2558-2561	7.4	55
212	Measurement of the Zak phase of photonic bands through the interface states of a metasurface/photonic crystal. *Physical Review B*, **2016**, 93,	3.3	54
211	Stable, high-performance sodium-based plasmonic devices in the near infrared. *Nature*, **2020**, 581, 401-405	38.4	53
210	Spectral tomographic imaging with aplanatic metalens. *Light: Science and Applications*, **2019**, 8, 99	16.7	53
209	Hall effect and dielectric properties of Mn-doped barium titanate. *Microelectronic Engineering*, **2003**, 66, 855-859	2.5	50
208	Self-Focusing and the Talbot Effect in Conformal Transformation Optics. *Physical Review Letters*, **2017**, 119, 033902	7.4	49
207	Role of asymmetric environment on the dark mode excitation in metamaterial analogue of electromagnetically-induced transparency. *Optics Express*, **2010**, 18, 22412-7	3.3	49
206	Two-dimensional topological photonic systems. *Progress in Quantum Electronics*, **2017**, 55, 52-73	9.1	48
205	Exploring magnetic plasmon polaritons in optical transmission through hole arrays perforated in trilayer structures. *Applied Physics Letters*, **2007**, 90, 251112	3.4	48
204	Polaron effects on third-harmonic generation in cylindrical quantum-well wires. *Solid State Communications*, **2004**, 132, 689-692	1.6	46
203	Quantum Secure Direct Communication by Using Three-Dimensional Hyperentanglement. *Communications in Theoretical Physics*, **2011**, 56, 831-836	2.4	43
202	Third-harmonic generation in a general two-component quasi-periodic optical superlattice. *Optics Letters*, **2001**, 26, 899-901	3	43
201	Wavefront shaping through emulated curved space in waveguide settings. *Nature Communications*, **2016**, 7, 10747	17.4	43
200	Breakup and Recovery of Topological Zero Modes in Finite Non-Hermitian Optical Lattices. *Physical Review Letters*, **2019**, 123, 165701	7.4	41
199	Optical Interface States Protected by Synthetic Weyl Points. *Physical Review X*, **2017**, 7,	9.1	41
198	Surface plasmon coupling enhanced dielectric environment sensitivity in a quasi-three-dimensional metallic nanohole array. *Optics Express*, **2010**, 18, 3546-55	3.3	40
197	Synergistic Tandem Solar Electricity-Water Generators. *Joule*, **2020**, 4, 347-358	27.8	40
196	Observation of Anomalous Modes in Photonic Floquet Engineering. *Physical Review Letters*, **2019**, 122, 173901	7.4	39

195	Analysis of shear modes in a piezoelectric vibrator. *Journal of Applied Physics*, **1998**, 83, 4415-4420	2.5	39
194	Giant magnetoresistance in transition-metal-doped ZnO films. *Applied Physics Letters*, **2006**, 88, 252110	3.4	37
193	Optimizing the efficiency of a periodically poled LNOI waveguide using in situ monitoring of the ferroelectric domains. *Applied Physics Letters*, **2020**, 116, 101104	3.4	35
192	Tunable photonic crystals with superconductor constituents. *Materials Letters*, **2002**, 55, 12-16	3.3	34
191	Crucial effects of coupling coefficients on quasi-phase-matched harmonic generation in an optical superlattice. *Optics Letters*, **2000**, 25, 436-8	3	34
190	Definite photon deflections of ´topological´defects in metasurfaces and symmetry-breaking phase transitions with material loss. *Nature Communications*, **2018**, 9, 4271	17.4	34
189	Graphene-based plasmonic modulator on a groove-structured metasurface. *Optics Letters*, **2017**, 42, 2247-2250	3	33
188	High-frequency resonance in acoustic superlattice of periodically poledLiTaO3. *Applied Physics Letters*, **1997**, 70, 592-594	3.4	32
187	On-Chip Detection of Orbital Angular Momentum Beam by Plasmonic Nanogratings. *Laser and Photonics Reviews*, **2018**, 12, 1700331	8.3	31
186	Compact source of narrow-band counterpropagating polarization-entangled photon pairs using a single dual-periodically-poled crystal. *Physical Review A*, **2011**, 84,	2.6	28
185	Polaron influence on the third-order nonlinear optical susceptibility in cylindrical quantum wires. *Physica E: Low-Dimensional Systems and Nanostructures*, **2005**, 27, 62-66	3	26
184	Broadband photocarrier dynamics and nonlinear absorption of PLD-grown WTe2 semimetal films. *Applied Physics Letters*, **2018**, 112, 171112	3.4	25
183	Multiplexed Holograms by Surface Plasmon Propagation and Polarized Scattering. *Nano Letters*, **2017**, 17, 5051-5055	11.5	25
182	Generating Controllable Laguerre-Gaussian Laser Modes Through Intracavity Spin-Orbital Angular Momentum Conversion of Light. *Physical Review Applied*, **2019**, 11,	4.3	25
181	Optical properties of (Mn, Co) co-doped ZnO films prepared by dual-radio frequency magnetron sputtering. *Thin Solid Films*, **2006**, 515, 2361-2365	2.2	24
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177	Controlling Surface Plasmons Through Covariant Transformation of the Spin-Dependent Geometric Phase Between Curved Metamaterials. *Physical Review Letters*, **2018**, 120, 243901	7.4	22
176	Resonance amplification of left-handed transmission at optical frequencies by stimulated emission of radiation in active metamaterials. *Optics Express*, **2008**, 16, 20974-80	3.3	22
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174	Three-dimensional entanglement on a silicon chip. *Npj Quantum Information*, **2020**, 6,	8.6	21
173	Quasi-phase-matched harmonic generation through coupled parametric processes in a quasiperiodic optical superlattice. *Journal of Applied Physics*, **1998**, 84, 6911-6916	2.5	21
172	Optical-Relayed Entanglement Distribution Using Drones as Mobile Nodes. *Physical Review Letters*, **2021**, 126, 020503	7.4	20
171	Nonlinear optical characterization of a generalized Fibonacci optical superlattice. *Applied Physics Letters*, **1999**, 75, 448-450	3.4	19
170	Cerenkov third-harmonic generation via cascaded χ(2) processes in a periodic-poled LiTaO waveguide. *Optics Letters*, **2011**, 36, 1227-9	3	18
169	Nanotube mode-locked, wavelength and pulsewidth tunable thulium fiber laser. *Optics Express*, **2019**, 27, 3518-3527	3.3	17
168	Nonlinear Beam Shaping in Domain Engineered Ferroelectric Crystals. *Advanced Materials*, **2020**, 32, e1902775	24	17
167	Second-harmonic and third-harmonic generation in a three-component fibonacci optical superlattice. *Journal of Physics Condensed Matter*, **2000**, 12, 529-537	1.8	17
166	Second-harmonic generation and manipulation in lithium niobate slab waveguides by grating metasurfaces. *Photonics Research*, **2020**, 8, 1296	6	17
165	Robust and Broadband Optical Coupling by Topological Waveguide Arrays. *Laser and Photonics Reviews*, **2020**, 14, 1900193	8.3	16
164	Phonon-polaritons in quasiperiodic piezoelectric superlattices. *Applied Physics Letters*, **2004**, 85, 3531-3533	3.4	16
163	Chromatic Dispersion Manipulation Based on Metalenses. *Advanced Materials*, **2020**, 32, e1904935	24	16
162	In operando plasmonic monitoring of electrochemical evolution of lithium metal. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 11168-11173	11.5	16
161	Near-stoichiometric LiNbO3 crystal grown using the Czochralski method from Li-rich melt. *Materials Letters*, **2004**, 58, 3119-3121	3.3	15
160	Photonic Flywheel in a Monolithic Fiber Resonator. *Physical Review Letters*, **2020**, 125, 143902	7.4	15

159	Controlling Thermal Emission by Parity-Symmetric Fano Resonance of Optical Absorbers in Metasurfaces. *ACS Photonics*, **2019**, 6, 2671-2676	6.3	14
158	Electrically controllable laser frequency combs in graphene-fibre microresonators. *Light: Science and Applications*, **2020**, 9, 185	16.7	14
157	Metasurfaces with Planar Chiral Meta-Atoms for Spin Light Manipulation. *Nano Letters*, **2021**, 21, 1815-1821	12.5	14
156	Slowing down photocarrier relaxation in Dirac semimetal CdAs via Mn doping. *Optics Letters*, **2019**, 44, 4103-4106	3	13
155	Stable Gain-Switched Thulium Fiber Laser With 140-nm Tuning Range. *IEEE Photonics Technology Letters*, **2016**, 28, 1340-1343	2.2	13
154	Generation and Conversion Dynamics of Dual Bessel Beams with a Photonic Spin-Dependent Dielectric Metasurface. *Physical Review Applied*, **2021**, 15,	4.3	13
153	Quantum photonics based on metasurfaces. *Opto-Electronic Advances*, **2021**, 4, 200092-200092	6.5	13
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151	Plasmonic switch based on composite interference in metallic strip waveguides. *Laser and Photonics Reviews*, **2014**, 8, L47-L51	8.3	12
150	Growth and characterization of Mg-doped near stoichiometric LiNbO3 crystal. *Journal of Crystal Growth*, **2004**, 262, 313-316	1.6	12
149	Light rays and waves on geodesic lenses. *Photonics Research*, **2019**, 7, 1266	6	12
148	Metalens-integrated compact imaging devices for wide-field microscopy. *Advanced Photonics*, **2020**, 2,	8.1	11
147	Nonlinear photonic crystals: from 2D to 3D. *Optica*, **2021**, 8, 372	8.6	11
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144	Coupled magnetic resonator optical waveguides. *Laser and Photonics Reviews*, **2013**, 7, 882-900	8.3	10
143	Linear optical quantum computation with imperfect entangled photon-pair sources and inefficient non–photon-number-resolving detectors. *Physical Review A*, **2010**, 81,	2.6	10
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141	Omnidirectional negative refraction with wide bandwidth introduced by magnetic coupling in a tri-rod structure. *Physical Review B*, **2007**, 76,	3.3	10
140	Controlled strain on a double-templated textured polymer film: a new approach to patterned surfaces with bravais lattices and chains. *Langmuir*, **2006**, 22, 7248-53	4	10
139	Phase-Matching Controlled Orbital Angular Momentum Conversion in Periodically Poled Crystals. *Physical Review Letters*, **2020**, 125, 143901	7.4	10
138	A scalable fish-school inspired self-assembled particle system for solar-powered water-solute separation. *National Science Review*, **2021**, 8, nwab065	10.8	10
137	Two-Dimensional Hole-Array Grating-Coupling-Based Excitation of Bloch Surface Waves for Highly Sensitive Biosensing. *Nanoscale Research Letters*, **2019**, 14, 319	5	10
136	Simulation of massless Dirac dynamics in plasmonic waveguide arrays. *Optics Express*, **2018**, 26, 13416-13424	3.3	9
135	Control the orbital angular momentum in third-harmonic generation using quasi-phase-matching. *Optics Express*, **2018**, 26, 17563-17570	3.3	9
134	Tunable third harmonic generation of vortex beams in an optical superlattice. *Optics Express*, **2017**, 25, 30820-30826	3.3	9
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132	Study on the growth facets and ferroelectric domains in near-stoichiometric LiNbO3 crystals. *Journal of Crystal Growth*, **2004**, 262, 240-245	1.6	9
131	Epitaxial Ba(2)NaNb(5)O(15) thin film by pulsed laser deposition and its waveguide properties. *Optics Letters*, **1995**, 20, 291-3	3	9
130	Domain inversion by Li2O out-diffusion or proton exchange followed by heat treatment in LiTaO3 and LiNbO3. *Physica Status Solidi A*, **1996**, 153, 275-279		9
129	Exceptional cones in 4D parameter space. *Optics Express*, **2020**, 28, 1758-1770	3.3	9
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126	Pseudo-magnetic-field and effective spin-orbit interaction for a spin-1/2 particle confined to a curved surface. *Physical Review A*, **2018**, 98,	2.6	9
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124	Mode-coupling Cerenkov sum-frequency-generation in a multimode planar waveguide. *Applied Physics Letters*, **2010**, 97, 161112	3.4	8

123	Domain inversion in LiNbO3 and LiTaO3 induced by proton exchange. *Physica B: Condensed Matter*, **2007**, 398, 151-158	2.8	8
122	Growth, conductivity and periodic poled structure of doped KTiOPO4 and its analogue crystals. *Optical Materials*, **2006**, 28, 355-359	3.3	8
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118	Angle-Resolved Thermal Emission Spectroscopy Characterization of Non-Hermitian Metacrystals. *Physical Review Applied*, **2020**, 13,	4.3	7
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114	Multichannel nonlinear holography in a two-dimensional nonlinear photonic crystal. *Physical Review A*, **2020**, 102,	2.6	7
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110	Waveguide Superlattice-Based Optical Phased Array. *Physical Review Applied*, **2021**, 15,	4.3	7
109	Conical third-harmonic generation in a hexagonally poled LiTaO3 crystal. *Applied Physics Letters*, **2017**, 110, 111105	3.4	6
108	Manipulation of tripartite frequency correlation under extended phase matchings. *Physical Review A*, **2018**, 97,	2.6	6
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106	The gain effect in a magnetic plasmon waveguide. *Applied Physics Letters*, **2010**, 96, 113103	3.4	6

105	Crossed field excitation of an acoustic superlattice. *Journal Physics D: Applied Physics*, **1996**, 29, 185-187	3	6
104	Quasi-phase-matched generation of tunable blue light in a quasi-periodic structure. *Optics Letters*, **2004**, 29, 95-7	3	6
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102	Acoustic superlattices and ultrasonic waves excited by crossed-field scheme. *Materials Letters*, **1996**, 28, 503-505	3.3	6
101	Field-induced periodic poled bulk using Al electrodes. *Journal Physics D: Applied Physics*, **1996**, 29, 76-79	3	6
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96	Novel ferroelectric tunnel junctions for nonvolatile memories. *National Science Review*, **2014**, 1, 167-168	10.8	5
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94	Pulsed laser deposition optical waveguiding Bi3TiNbO9 thin films on fused silica. *Thin Solid Films*, **2005**, 473, 296-299	2.2	5
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92	Heterogeneously integrated, superconducting silicon-photonic platform for measurement-device-independent quantum key distribution. *Advanced Photonics*, **2021**, 3,	8.1	5
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86	Optical Anisotropic Properties of m-Plane GaN Film Grown by Metalorganic Chemical Vapor Deposition. *Journal of Rare Earths*, **2007**, 25, 356-359	3.7	4
85	Fabrication of periodic domain structure in β-Gd2(MoO4)3 crystal. *Journal of Crystal Growth*, **2002**, 243, 185-189	1.6	4
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79	Narrow-linewidth single-polarization fiber laser using non-polarization optics. *Optics Letters*, **2021**, 46, 3769-3772	3	4
78	Resolution of ghost imaging with entangled photons for different types of momentum correlation. *Science China: Physics, Mechanics and Astronomy*, **2016**, 59, 1	3.6	4
77	On-chip engineering of high-dimensional path-entangled states in a quadratic coupled-waveguide system. *Physical Review A*, **2019**, 99,	2.6	3
76	Cavity-enhanced metallic metalens with improved Efficiency. *Scientific Reports*, **2020**, 10, 417	4.9	3
75	2- mu m Repetition-Rate Tunable (1 GHz) Picosecond Source. *IEEE Photonics Technology Letters* , **2017**, 29, 2234-2237	2.2	3
74	Sodium guide star laser generation by single-pass frequency doubling in a periodically poled near-stoichiometric LiTaO3 crystal. *Science China Technological Sciences*, **2013**, 56, 125-128	3.5	3
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