

Juntao Li

List of Publications by Citations

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45
papers

1,957
citations

21
h-index

44
g-index

49
ext. papers

2,623
ext. citations

9.2
avg, IF

4.87
L-index

#	Paper	IF	Citations
45	Interface passivation using ultrathin polymer/fullerene films for high-efficiency perovskite solar cells with negligible hysteresis. <i>Energy and Environmental Science</i> , 2017 , 10, 1792-1800	35.4	305
44	A solid-state source of strongly entangled photon pairs with high brightness and indistinguishability. <i>Nature Nanotechnology</i> , 2019 , 14, 586-593	28.7	169
43	High-Q Quasibound States in the Continuum for Nonlinear Metasurfaces. <i>Physical Review Letters</i> , 2019 , 123, 253901	7.4	154
42	Efficient Indium-Doped TiOx Electron Transport Layers for High-Performance Perovskite Solar Cells and Perovskite-Silicon Tandems. <i>Advanced Energy Materials</i> , 2017 , 7, 1601768	21.8	145
41	Efficient Silicon Metasurfaces for Visible Light. <i>ACS Photonics</i> , 2017 , 4, 544-551	6.3	142
40	Scalable, full-colour and controllable chromotropic plasmonic printing. <i>Nature Communications</i> , 2015 , 6, 8906	17.4	127
39	Nanoscale localized contacts for high fill factors in polymer-passivated perovskite solar cells. <i>Science</i> , 2021 , 371, 390-395	33.3	121
38	Ultrahigh Numerical Aperture Metalens at Visible Wavelengths. <i>Nano Letters</i> , 2018 , 18, 4460-4466	11.5	107
37	Full-colour nanoprint-hologram synchronous metasurface with arbitrary hue-saturation-brightness control. <i>Light: Science and Applications</i> , 2019 , 8, 95	16.7	95
36	Lighting up silicon nanoparticles with Mie resonances. <i>Nature Communications</i> , 2018 , 9, 2964	17.4	70
35	Coherent Pixel Design of Metasurfaces for Multidimensional Optical Control of Multiple Printing-Image Switching and Encoding. <i>Advanced Functional Materials</i> , 2018 , 28, 1805306	15.6	70
34	Perovskite Solar Cells Employing Copper Phthalocyanine Hole-Transport Material with an Efficiency over 20% and Excellent Thermal Stability. <i>ACS Energy Letters</i> , 2018 , 3, 2441-2448	20.1	68
33	Room temperature nanocavity laser with interlayer excitons in 2D heterostructures. <i>Science Advances</i> , 2019 , 5, eaav4506	14.3	53
32	High performance metalenses: numerical aperture, aberrations, chromaticity, and trade-offs. <i>Optica</i> , 2019 , 6, 1461	8.6	46
31	Enhancing the outcoupling efficiency of quantum dot LEDs with internal nano-scattering pattern. <i>Optics Express</i> , 2015 , 23, 12910-22	3.3	29
30	Second Harmonic and Sum-Frequency Generations from a Silicon Metasurface Integrated with a Two-Dimensional Material. <i>ACS Photonics</i> , 2019 , 6, 2252-2259	6.3	28
29	On-demand spin-state manipulation of single-photon emission from quantum dot integrated with metasurface. <i>Science Advances</i> , 2020 , 6, eaba8761	14.3	28

28	1305nm Few-Layer MoTe ₂ -on-Silicon Laser-Like Emission. <i>Laser and Photonics Reviews</i> , 2018 , 12, 18000153	6.3	27
27	On Metalenses with Arbitrarily Wide Field of View. <i>ACS Photonics</i> , 2020 , 7, 2073-2079	6.3	23
26	A compact structure for realizing Lorentzian, Fano, and electromagnetically induced transparency resonance lineshapes in a microring resonator. <i>Nanophotonics</i> , 2019 , 8, 841-848	6.3	21
25	Fano resonance lineshapes in a waveguide-microring structure enabled by an air-hole. <i>APL Photonics</i> , 2020 , 5, 016108	5.2	21
24	Highly efficient holograms based on c-Si metasurfaces in the visible range. <i>Optics Express</i> , 2018 , 26, 9573-9583	3.9	14
23	Multiple Optical Frequency Conversions in Few-Layer GaSe Assisted by a Photonic Crystal Cavity. <i>Advanced Optical Materials</i> , 2018 , 6, 1800698	8.1	14
22	High-efficiency broadband second harmonic generation in single hexagonal GaAs nanowire. <i>Scientific Reports</i> , 2017 , 7, 2166	4.9	12
21	Crystalline Silicon White Light Sources Driven by Optical Resonances. <i>Nano Letters</i> , 2021 , 21, 2397-2405	11.5	9
20	Laser-Like Emission from a Sandwiched MoTe ₂ Heterostructure on a Silicon Single-Mode Resonator. <i>Advanced Optical Materials</i> , 2019 , 7, 1900538	8.1	8
19	A Quantum Dot Array for Enhanced Tricolor Liquid-Crystal Display. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-7	1.8	7
18	Broadband c-Si metasurfaces with polarization control at visible wavelengths: applications to 3D stereoscopic holography. <i>Optics Express</i> , 2018 , 26, 30740-30752	3.3	6
17	Crystal structures of the bifunctional tRNA methyltransferase Trm5a. <i>Scientific Reports</i> , 2016 , 6, 33553	4.9	6
16	Photonic Intermediate Structures for Perovskite/c-Silicon Four Terminal Tandem Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2017 , 7, 1190-1196	3.7	4
15	Metalenses: from design principles to functional applications. <i>Frontiers of Optoelectronics</i> , 2021 , 14, 170-186	2.8	4
14	P-69: Studies on 2D/3D Switchable Autostereoscopic Display with Spatial and Sequential Hybrid Control Using PDLC Films. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 1395-1398	0.5	4
13	Infrared Semiconducting Transition-Metal Dichalcogenide Lasing with a Silicon Nanocavity. <i>Journal of the Korean Physical Society</i> , 2018 , 73, 278-282	0.6	2
12	Ultra-thin transmissive crystalline silicon high-contrast grating metasurfaces. <i>Optics Express</i> , 2019 , 27, 30931-30940	3.3	2
11	Enhancing the Light Extraction Efficiency in Micro-Organic Light-Emitting Diodes with Metalens. <i>Advanced Photonics Research</i> , 2021 , 2, 2000145	1.9	2

10	Deflecting transmissive light beams with metasurfaces based on crystalline silicon high-contrast grating. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 084001	3	2
9	Interplay Between Optical and Electrical Properties of Nanostructured Surfaces in Crystalline Silicon Solar Cells. <i>IEEE Photonics Journal</i> , 2019 , 11, 1-7	1.8	1
8	A Metasurface Beam Combiner Based on the Control of Angular Response. <i>Photonics</i> , 2021 , 8, 489	2.2	1
7	Highly Efficient Air-Mode Silicon Metasurfaces for Visible Light Operation Embedded in a Protective Silica Layer. <i>Advanced Optical Materials</i> , 2021 , 9, 2002209	8.1	1
6	Multidimensional Optical Control: Coherent Pixel Design of Metasurfaces for Multidimensional Optical Control of Multiple Printing-Image Switching and Encoding (Adv. Funct. Mater. 51/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870366	15.6	1
5	Fundamental limits and design principles of doublet metalenses. <i>Nanophotonics</i> , 2022 , 11, 1187-1194	6.3	1
4	Highly efficient nonlinear optical emission from a subwavelength crystalline silicon cuboid mediated by supercavity mode.. <i>Nature Communications</i> , 2022 , 13, 2749	17.4	1
3	Reducing the Surface Area of Black Silicon by Optically Equivalent Structures. <i>IEEE Journal of Photovoltaics</i> , 2020 , 10, 41-45	3.7	0
2	Robust Light-Emitting Devices: Laser-Like Emission from a Sandwiched MoTe2 Heterostructure on a Silicon Single-Mode Resonator (Advanced Optical Materials 20/2019). <i>Advanced Optical Materials</i> , 2019 , 7, 1970078	8.1	
1	Highly Efficient Air-Mode Silicon Metasurfaces for Visible Light Operation Embedded in a Protective Silica Layer (Advanced Optical Materials 11/2021). <i>Advanced Optical Materials</i> , 2021 , 9, 2170040	8.1	