

# Juntao Li

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Fundamental limits and design principles of doublet metalenses. <i>Nanophotonics</i> , <b>2022</b> , 11, 1187-1194	6.3	1
44	Highly efficient nonlinear optical emission from a subwavelength crystalline silicon cuboid mediated by supercavity mode.. <i>Nature Communications</i> , <b>2022</b> , 13, 2749	17.4	1
43	A Metasurface Beam Combiner Based on the Control of Angular Response. <i>Photonics</i> , <b>2021</b> , 8, 489	2.2	1
42	Crystalline Silicon White Light Sources Driven by Optical Resonances. <i>Nano Letters</i> , <b>2021</b> , 21, 2397-2405	11.5	9
41	Enhancing the Light Extraction Efficiency in Micro-Organic Light-Emitting Diodes with Metalens. <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2000145	1.9	2
40	Metalenses: from design principles to functional applications. <i>Frontiers of Optoelectronics</i> , <b>2021</b> , 14, 170-186	186	4
39	Highly Efficient Air-Mode Silicon Metasurfaces for Visible Light Operation Embedded in a Protective Silica Layer. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2002209	8.1	1
38	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> , <b>2021</b> , 9, 2170040	8.1	1
37	Nanoscale localized contacts for high fill factors in polymer-passivated perovskite solar cells. <i>Science</i> , <b>2021</b> , 371, 390-395	33.3	121
36	On Metalenses with Arbitrarily Wide Field of View. <i>ACS Photonics</i> , <b>2020</b> , 7, 2073-2079	6.3	23
35	Fano resonance lineshapes in a waveguide-microring structure enabled by an air-hole. <i>APL Photonics</i> , <b>2020</b> , 5, 016108	5.2	21
34	Reducing the Surface Area of Black Silicon by Optically Equivalent Structures. <i>IEEE Journal of Photovoltaics</i> , <b>2020</b> , 10, 41-45	3.7	0
33	On-demand spin-state manipulation of single-photon emission from quantum dot integrated with metasurface. <i>Science Advances</i> , <b>2020</b> , 6, eaba8761	14.3	28
32	Full-colour nanoprint-hologram synchronous metasurface with arbitrary hue-saturation-brightness control. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 95	16.7	95
31	A solid-state source of strongly entangled photon pairs with high brightness and indistinguishability. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 586-593	28.7	169
30	Room temperature nanocavity laser with interlayer excitons in 2D heterostructures. <i>Science Advances</i> , <b>2019</b> , 5, eaav4506	14.3	53
29	A compact structure for realizing Lorentzian, Fano, and electromagnetically induced transparency resonance lineshapes in a microring resonator. <i>Nanophotonics</i> , <b>2019</b> , 8, 841-848	6.3	21

28	Second Harmonic and Sum-Frequency Generations from a Silicon Metasurface Integrated with a Two-Dimensional Material. <i>ACS Photonics</i> , <b>2019</b> , 6, 2252-2259	6.3	28
27	Laser-Like Emission from a Sandwiched MoTe <sub>2</sub> Heterostructure on a Silicon Single-Mode Resonator. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900538	8.1	8
26	Interplay Between Optical and Electrical Properties of Nanostructured Surfaces in Crystalline Silicon Solar Cells. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-7	1.8	1
25	Robust Light-Emitting Devices: Laser-Like Emission from a Sandwiched MoTe <sub>2</sub> Heterostructure on a Silicon Single-Mode Resonator (Advanced Optical Materials 20/2019). <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1970078	8.1	
24	Ultra-thin transmissive crystalline silicon high-contrast grating metasurfaces. <i>Optics Express</i> , <b>2019</b> , 27, 30931-30940	3.3	2
23	High performance metalenses: numerical aperture, aberrations, chromaticity, and trade-offs. <i>Optica</i> , <b>2019</b> , 6, 1461	8.6	46
22	High-Q Quasibound States in the Continuum for Nonlinear Metasurfaces. <i>Physical Review Letters</i> , <b>2019</b> , 123, 253901	7.4	154
21	Deflecting transmissive light beams with metasurfaces based on crystalline silicon high-contrast grating. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 084001	3	2
20	Highly efficient holograms based on c-Si metasurfaces in the visible range. <i>Optics Express</i> , <b>2018</b> , 26, 9573-9583	3.3	14
19	Lighting up silicon nanoparticles with Mie resonances. <i>Nature Communications</i> , <b>2018</b> , 9, 2964	17.4	70
18	1305nm Few-Layer MoTe <sub>2</sub> -on-Silicon Laser-Like Emission. <i>Laser and Photonics Reviews</i> , <b>2018</b> , 12, 1800015	15.3	27
17	Infrared Semiconducting Transition-Metal Dichalcogenide Lasing with a Silicon Nanocavity. <i>Journal of the Korean Physical Society</i> , <b>2018</b> , 73, 278-282	0.6	2
16	Broadband c-Si metasurfaces with polarization control at visible wavelengths: applications to 3D stereoscopic holography. <i>Optics Express</i> , <b>2018</b> , 26, 30740-30752	3.3	6
15	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> , <b>2018</b> , 28, 1870366	15.6	1
14	Coherent Pixel Design of Metasurfaces for Multidimensional Optical Control of Multiple Printing-Image Switching and Encoding. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1805306	15.6	70
13	Perovskite Solar Cells Employing Copper Phthalocyanine Hole-Transport Material with an Efficiency over 20% and Excellent Thermal Stability. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2441-2448	20.1	68
12	Multiple Optical Frequency Conversions in Few-Layer GaSe Assisted by a Photonic Crystal Cavity. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800698	8.1	14
11	Ultrahigh Numerical Aperture Metalens at Visible Wavelengths. <i>Nano Letters</i> , <b>2018</b> , 18, 4460-4466	11.5	107

10	Efficient Silicon Metasurfaces for Visible Light. <i>ACS Photonics</i> , <b>2017</b> , 4, 544-551	6.3	142
9	A Quantum Dot Array for Enhanced Tricolor Liquid-Crystal Display. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-7	1.8	7
8	Photonic Intermediate Structures for Perovskite/c-Silicon Four Terminal Tandem Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2017</b> , 7, 1190-1196	3.7	4
7	High-efficiency broadband second harmonic generation in single hexagonal GaAs nanowire. <i>Scientific Reports</i> , <b>2017</b> , 7, 2166	4.9	12
6	Interface passivation using ultrathin polymerfullerene films for high-efficiency perovskite solar cells with negligible hysteresis. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1792-1800	35.4	305
5	Efficient Indium-Doped TiO <sub>x</sub> Electron Transport Layers for High-Performance Perovskite Solar Cells and Perovskite-Silicon Tandems. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601768	21.8	145
4	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> , <b>2016</b> , 47, 1395-1398	0.5	4
3	Crystal structures of the bifunctional tRNA methyltransferase Trm5a. <i>Scientific Reports</i> , <b>2016</b> , 6, 33553	4.9	6
2	Enhancing the outcoupling efficiency of quantum dot LEDs with internal nano-scattering pattern. <i>Optics Express</i> , <b>2015</b> , 23, 12910-22	3.3	29
1	Scalable, full-colour and controllable chromotropic plasmonic printing. <i>Nature Communications</i> , <b>2015</b> , 6, 8906	17.4	127