

# Jiafang Li

## List of Publications by Year in descending order

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79  
papers

2,321  
citations

172207

29  
h-index

223531

46  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2824  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-kirigami with giant optical chirality. <i>Science Advances</i> , 2018, 4, eaat4436.	4.7	203
2	Simultaneous Excitation and Emission Enhancement of Fluorescence Assisted by Double Plasmon Modes of Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10636-10642.	1.5	122
3	Optical trapping of gold nanoparticles by cylindrical vector beam. <i>Optics Letters</i> , 2012, 37, 1694.	1.7	119
4	Kirigami/origami: unfolding the new regime of advanced 3D microfabrication/nanofabrication with "œfolding" Light: <i>Science and Applications</i> , 2020, 9, 75.	7.7	112
5	Directly patterned substrate-free plasmonic "œnanograter" structures with unusual Fano resonances. <i>Light: Science and Applications</i> , 2015, 4, e308-e308.	7.7	105
6	Dirac-vortex topological cavities. <i>Nature Nanotechnology</i> , 2020, 15, 1012-1018.	15.6	95
7	Efficient surface plasmon amplification from gain-assisted gold nanorods. <i>Optics Letters</i> , 2011, 36, 1296.	1.7	85
8	Fano-Enhanced Circular Dichroism in Deformable Stereo Metasurfaces. <i>Advanced Materials</i> , 2020, 32, e1907077.	11.1	83
9	Tunable Electroluminescence in Planar Graphene/SiO <sub>2</sub> Memristors. <i>Advanced Materials</i> , 2013, 25, 5593-5598.	11.1	67
10	Electromechanically reconfigurable optical nano-kirigami. <i>Nature Communications</i> , 2021, 12, 1299.	5.8	61
11	Anisotropic and enhanced absorptive nonlinearities in a macroscopic film induced by aligned gold nanorods. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	60
12	Fano resonance Rabi splitting of surface plasmons. <i>Scientific Reports</i> , 2017, 7, 8010.	1.6	57
13	Fabrication of three-dimensional woodpile photonic crystals in a PbSe quantum dot composite material. <i>Optics Express</i> , 2006, 14, 10740.	1.7	56
14	Use of radially polarized beams in three-dimensional photonic crystal fabrication with the two-photon polymerization method. <i>Optics Letters</i> , 2009, 34, 1918.	1.7	56
15	Focused-ion-beam-based nano-kirigami: from art to photonics. <i>Nanophotonics</i> , 2018, 7, 1637-1650.	2.9	48
16	New Floating Gate Memory with Excellent Retention Characteristics. <i>Advanced Electronic Materials</i> , 2019, 5, 1800726.	2.6	48
17	Two-Photon Polymerization for Three-Dimensional Photonic Devices in Polymers and Nanocomposites. <i>Australian Journal of Chemistry</i> , 2007, 60, 484.	0.5	46
18	Spectral Redistribution in Spontaneous Emission from Quantum-Dot-Infiltrated 3D Woodpile Photonic Crystals for Telecommunications. <i>Advanced Materials</i> , 2007, 19, 3276-3280.	11.1	44

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19	3D conductive coupling for efficient generation of prominent Fano resonances in metamaterials. Scientific Reports, 2016, 6, 27817.	1.6	43
20	Microscopic and macroscopic manipulation of gold nanorod and its hybrid nanostructures [Invited]. Photonics Research, 2013, 1, 28.	3.4	42
21	Engineering stop gaps of inorganic-organic polymeric 3D woodpile photonic crystals with post-thermal treatment. Optics Express, 2008, 16, 20073.	1.7	38
22	Deuterogenic Plasmonic Vortices. Nano Letters, 2020, 20, 6774-6779.	4.5	38
23	Nano-Kirigami Metasurface with Giant Nonlinear Optical Circular Dichroism. Laser and Photonics Reviews, 2020, 14, 2000085.	4.4	37
24	Highly Nonlinear Quantum Dot Doped Nanocomposites for Functional Three-Dimensional Structures Generated by Two-Photon Polymerization. Advanced Materials, 2010, 22, 2463-2467.	11.1	32
25	Direct laser writing of symmetry-broken spiral tapers for polarization-insensitive three-dimensional plasmonic focusing. Laser and Photonics Reviews, 2014, 8, 602-609.	4.4	32
26	Vector Exceptional Points with Strong Superchiral Fields. Physical Review Letters, 2020, 124, 083901.	2.9	32
27	Invited Article: Nano-kirigami metasurfaces by focused-ion-beam induced close-loop transformation. APL Photonics, 2018, 3, .	3.0	31
28	Manipulation of gold nanorods with dual-optical tweezers for surface plasmon resonance control. Nanotechnology, 2012, 23, 215302.	1.3	30
29	Near-field visualization of focal depth modulation by step corrugated plasmonic slits. Applied Physics Letters, 2009, 94, 151912.	1.5	29
30	Artificial Propeller Chirality and Counterintuitive Reversal of Circular Dichroism in Twisted Meta-molecules. Nano Letters, 2021, 21, 6828-6834.	4.5	29
31	Optical forces exerted on a graphene-coated dielectric particle by a focused Gaussian beam. Photonics Research, 2016, 4, 65.	3.4	28
32	Giant enhancement of second harmonic generation by engineering double plasmonic resonances at nanoscale. Optics Express, 2014, 22, 28653.	1.7	27
33	Use of two-photon polymerization for continuous gray-level encoding of diffractive optical elements. Applied Physics Letters, 2007, 90, 073503.	1.5	23
34	Three-dimensional hybrid photonic crystals merged with localized plasmon resonances. Optics Express, 2010, 18, 4491.	1.7	23
35	Direct observation of amplified spontaneous emission of surface plasmon polaritons at metal/dielectric interfaces. Applied Physics Letters, 2011, 98, .	1.5	23
36	Adaptable Invisibility Management Using Kirigami-Inspired Transformable Metamaterials. Research, 2021, 2021, 9806789.	2.8	21

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37	Reconfigurable nano-kirigami metasurfaces by pneumatic pressure. <i>Photonics Research</i> , 2020, 8, 1177.	3.4	21
38	On the critical role of Rayleigh scattering in single-molecule surface-enhanced Raman scattering via a plasmonic nanogap. <i>Nanoscale</i> , 2016, 8, 15730-15736.	2.8	20
39	Five-fold plasmonic Fano resonances with giant bisignate circular dichroism. <i>Nanoscale</i> , 2018, 10, 16630-16637.	2.8	20
40	Direction-dependent spontaneous emission from near-infrared quantum dots at the angular band edges of a three-dimensional photonic crystal. <i>Applied Physics Letters</i> , 2007, 91, 254101.	1.5	19
41	Fabrication of three-dimensional photonic crystals in quantum-dot-based materials. <i>Laser and Photonics Reviews</i> , 2010, 4, 414-431.	4.4	19
42	Near-infrared high refractive-index three-dimensional inverse woodpile photonic crystals generated by a sol-gel process. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	15
43	Macroscopic Polarized Emission from Aligned Hybrid Gold Nanorods Embedded in a Polyvinyl Alcohol Film. <i>Advanced Optical Materials</i> , 2013, 1, 227-231.	3.6	14
44	Recent progress in engineering and application of surface plasmon resonance in metal nanostructures. <i>Chinese Science Bulletin</i> , 2011, 56, 2631-2661.	0.4	13
45	Direct laser writing of pyramidal plasmonic structures with apertures and asymmetric gratings towards efficient subwavelength light focusing. <i>Optics Express</i> , 2015, 23, 22564.	1.7	12
46	Cascaded multilayer nano-kirigami for extensible 3D nanofabrication and visible light manipulation. <i>Photonics Research</i> , 2020, 8, 1506.	3.4	11
47	Engineering the refractive index of three-dimensional photonic crystals through multilayer deposition of CdS films. <i>Optics Express</i> , 2010, 18, 1033.	1.7	9
48	Amplified Spontaneous Emission of Surface Plasmon Polaritons with Unusual Angle-Dependent Response. <i>Small</i> , 2012, 8, 1355-1359.	5.2	9
49	Hollow metallic pyramid plasmonic structures fabricated by direct laser writing and electron beam evaporation. <i>Microelectronic Engineering</i> , 2013, 110, 307-310.	1.1	9
50	Phase Enabled Circular Dichroism Reversal in Twisted Bi-Chiral Propeller Metamolecule Arrays. <i>Advanced Optical Materials</i> , 2021, 9, 2101191.	3.6	9
51	Enhancing the linear absorption and tuning the nonlinearity of TiO <sub>2</sub> nanowires through the incorporation of Ag nanoparticles. <i>Optics Letters</i> , 2011, 36, 3443.	1.7	8
52	The properties of gold nanospheres studied with dark field optical trapping. <i>Optics Express</i> , 2013, 21, 6618.	1.7	8
53	Nonvolatile Memory: New Floating Gate Memory with Excellent Retention Characteristics (Adv.) Tj ETQq1 1 0.784314 rgBT / Qoverlock 10	2.6	8
54	Reprogrammable optical metasurfaces by electromechanical reconfiguration. <i>Optics Express</i> , 2021, 29, 30751.	1.7	8

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55	Plasmonic Nanosensors with Extraordinary Sensitivity to Molecularly Enantioselective Recognition at Nanoscale Interfaces. ACS Nano, 2021, 15, 19535-19545.	7.3	8
56	Plasmonic Particles with Unique Optical Interaction and Mechanical Motion Properties. Particle and Particle Systems Characterization, 2017, 34, 1600380.	1.2	7
57	Directionally enhanced probe for side-illumination Tip enhanced spectroscopy. Journal of Raman Spectroscopy, 2016, 47, 1194-1199.	1.2	6
58	Ultra-sensitive amplitude engineering and sign reversal of circular dichroism in quasi-3D chiral nanostructures. Optics Express, 2021, 29, 33572.	1.7	6
59	A magnetic actuation scheme for nano-kirigami metasurfaces with reconfigurable circular dichroism. Journal of Applied Physics, 2022, 131, .	1.1	6
60	Fano resonance of the ultrasensitive optical force excited by Gaussian evanescent field. Journal of Optics (United Kingdom), 2015, 17, 075004.	1.0	5
61	Plasmonic diastereoisomer arrays with reversed circular dichroism simply controlled by deformation height. APL Photonics, 2022, 7, .	3.0	5
62	Vertical microgoblet resonator with high sensitivity fabricated by direct laser writing on a Si substrate. Journal of Applied Physics, 2017, 121, .	1.1	4
63	Reconfigurable plasmonic nanoslits and tuneable Pancharatnam-Berry geometric phase based on electromechanical nano-kirigami [Invited]. Optical Materials Express, 2021, 11, 3381.	1.6	3
64	Local observation of modes from three-dimensional woodpile photonic crystals with near-field microspectroscopy under supercontinuum illumination. Optics Letters, 2008, 33, 1093.	1.7	2
65	Rectangular-cavity resonances enhanced absorption in metallic-nanoshelled 2D rod arrays and 3D photonic crystals. New Journal of Physics, 2010, 12, 043012.	1.2	2
66	Direct laser writing of symmetry-broken nanocorrals and their applications in SERS spectroscopy. Applied Physics B: Lasers and Optics, 2014, 117, 121-125.	1.1	2
67	Vector beams in planar photonic crystal cavities with rotating air holes. Optics Letters, 2020, 45, 1587.	1.7	2
68	Thermally actuated micro-/nanoscale deformations for optical reconfigurations. Journal of Optics (United Kingdom), 2022, 24, 054007.	1.0	2
69	Active three-dimensional photonic crystals with high third-order nonlinearity in telecommunication. , 2009, , .		1
70	Engineering the refractive index of three-dimensional photonic crystals through multilayer deposition of CdS films: erratum. Optics Express, 2010, 18, 3013.	1.7	1
71	Enhanced and unusual angle-dependent optical forces exerted on Mie particles by Airy surface plasmon wave. Journal of Optics (United Kingdom), 2016, 18, 085401.	1.0	1
72	Tunable coupling of a hybrid plasmonic waveguide consisting of two identical dielectric cylinders and a silver film. Chinese Physics B, 2017, 26, 114103.	0.7	1

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73	Infiltration of quantum dots into 3D photonic crystals fabricated by the two-photon polymerisation technique. , 2006, , .		0
74	Incorporation of Quantum Dots into 3D Photonic Crystals for Emission Control. , 2006, , .		0
75	Near-field mapping of three-dimensional woodpile photonic crystals by using supercontinuum generation. , 2007, , .		0
76	Spectral redistribution in spontaneous emission from quantum dot infiltrated three-dimensional photonic crystals. , 2007, , .		0
77	Direct visualization of focusing effect of step corrugated nanoplasmonic slits. , 2009, , .		0
78	Excitation of multipolar surface plasmon resonance in plasmonic nanoparticles by complex accelerating beams. Journal of Optics (United Kingdom), 2015, 17, 075005.	1.0	0
79	Macroscopic Engineering of Polarized Emission from Aligned Hybrid Gold Nanorods. , 2013, , .		0