

Xinyuan Fang

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,932
citations

567281

15
h-index

580821

25
g-index

30
all docs

30
docs citations

30
times ranked

1276
citing authors

#	ARTICLE	IF	CITATIONS
1	Orbital angular momentum holography for high-security encryption. <i>Nature Photonics</i> , 2020, 14, 102-108.	31.4	425
2	Complex-amplitude metasurface-based orbital angular momentum holography in momentum space. <i>Nature Nanotechnology</i> , 2020, 15, 948-955.	31.5	386
3	Metasurface orbital angular momentum holography. <i>Nature Communications</i> , 2019, 10, 2986.	12.8	303
4	Experimental demonstration of a three-dimensional lithium niobate nonlinear photonic crystal. <i>Nature Photonics</i> , 2018, 12, 596-600.	31.4	224
5	Three-dimensional direct lithography of stable perovskite nanocrystals in glass. <i>Science</i> , 2022, 375, 307-310.	12.6	190
6	High-dimensional orbital angular momentum multiplexing nonlinear holography. <i>Advanced Photonics</i> , 2021, 3, .	11.8	78
7	Coupled orbital angular momentum conversions in a quasi-periodically poled LiTaO ₃ crystal. <i>Optics Letters</i> , 2016, 41, 1169.	3.3	35
8	Multichannel nonlinear holography in a two-dimensional nonlinear photonic crystal. <i>Physical Review A</i> , 2020, 102, .	2.5	30
9	Multiple copies of orbital angular momentum states through second-harmonic generation in a two-dimensional periodically poled LiTaO ₃ crystal. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	28
10	Nanophotonic manipulation of optical angular momentum for high-dimensional information optics. <i>Advances in Optics and Photonics</i> , 2021, 13, 772.	25.5	26
11	Optically Digitalized Holography: A Perspective for All-Optical Machine Learning. <i>Engineering</i> , 2019, 5, 363-365.	6.7	24
12	Examining second-harmonic generation of high-order Laguerre-Gaussian modes through a single cylindrical lens. <i>Optics Letters</i> , 2017, 42, 4387.	3.3	22
13	Simple and Nondestructive On-Chip Detection of Optical Orbital Angular Momentum through a Single Plasmonic Nanohole. <i>ACS Photonics</i> , 2017, 4, 996-1002.	6.6	21
14	768-ary Laguerre-Gaussian-mode shift keying free-space optical communication based on convolutional neural networks. <i>Optics Express</i> , 2021, 29, 19807.	3.4	21
15	Conversion of the optical orbital angular momentum in a plasmon-assisted second-harmonic generation. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	20
16	On-chip generation of broadband high-order Laguerre-Gaussian modes in a metasurface. <i>Optics Letters</i> , 2017, 42, 2463.	3.3	17
17	Tuning nonlinear second-harmonic generation in AlGaAs nanoantennas via chalcogenide phase-change material. <i>Physical Review B</i> , 2021, 104, .	3.2	14
18	Multiple generations of high-order orbital angular momentum modes through cascaded third-harmonic generation in a 2D nonlinear photonic crystal. <i>Optics Express</i> , 2017, 25, 11556.	3.4	13

#	ARTICLE	IF	CITATIONS
19	Tunable third harmonic generation of vortex beams in an optical superlattice. <i>Optics Express</i> , 2017, 25, 30820.	3.4	13
20	Third- and Second-Harmonic Generation in All-Dielectric Nanostructures: A Mini Review. <i>Frontiers in Nanotechnology</i> , 2022, 4, .	4.8	12
21	Conical third-harmonic generation in a hexagonally poled LiTaO ₃ crystal. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	9
22	Optical parametric amplification of a Laguerre–Gaussian mode. <i>OSA Continuum</i> , 2019, 2, 236.	1.8	9
23	Orbital angular momentum optical communications enhanced by artificial intelligence. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 094003.	2.2	7
24	Nonlinear optical conversion of the orbital angular momentum of light in a PPLT crystal. , 2016, , .		3
25	Phyllotaxis bionics for vortex nanosieves. <i>Light: Science and Applications</i> , 2021, 10, 191.	16.6	1
26	All Optical Holographic Encryption in Reduced Graphene Oxide Based on Laser Direct Writing. , 2021, , .		0
27	Cascaded third-harmonic generation of an optical orbitalangular-momentum state through quasi-phase matching. , 2017, , .		0
28	Generations of multiple orbital angular momentum modes in 2D nonlinear photonic crystal. , 2017, , .		0
29	Conical third-harmonic generation in a 2D periodically-poled crystal. , 2017, , .		0