

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 | Three-dimensional direct lithography of stable perovskite nanocrystals in glass. <i>Science</i> , 2022, 375, 307-310. | 12.6 | 190 |
| 2 | Third- and Second-Harmonic Generation in All-Dielectric Nanostructures: A Mini Review. <i>Frontiers in Nanotechnology</i> , 2022, 4, . | 4.8 | 12 |
| 3 | Orbital angular momentum optical communications enhanced by artificial intelligence. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 094003. | 2.2 | 7 |
| 4 | High-dimensional orbital angular momentum multiplexing nonlinear holography. <i>Advanced Photonics</i> , 2021, 3, . | 11.8 | 78 |
| 5 | All Optical Holographic Encryption in Reduced Graphene Oxide Based on Laser Direct Writing. , 2021, , . | | 0 |
| 6 | 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 |
| 7 | Phyllotaxis bionics for vortex nanosieves. <i>Light: Science and Applications</i> , 2021, 10, 191. | 16.6 | 1 |
| 8 | Nanophotonic manipulation of optical angular momentum for high-dimensional information optics. <i>Advances in Optics and Photonics</i> , 2021, 13, 772. | 25.5 | 26 |
| 9 | Tuning nonlinear second-harmonic generation in AlGaAs nanoantennas via chalcogenide phase-change material. <i>Physical Review B</i> , 2021, 104, . | 3.2 | 14 |
| 10 | Orbital angular momentum holography for high-security encryption. <i>Nature Photonics</i> , 2020, 14, 102-108. | 31.4 | 425 |
| 11 | Multichannel nonlinear holography in a two-dimensional nonlinear photonic crystal. <i>Physical Review A</i> , 2020, 102, . | 2.5 | 30 |
| 12 | Complex-amplitude metasurface-based orbital angular momentum holography in momentum space. <i>Nature Nanotechnology</i> , 2020, 15, 948-955. | 31.5 | 386 |
| 13 | Metasurface orbital angular momentum holography. <i>Nature Communications</i> , 2019, 10, 2986. | 12.8 | 303 |
| 14 | Optically Digitalized Holography: A Perspective for All-Optical Machine Learning. <i>Engineering</i> , 2019, 5, 363-365. | 6.7 | 24 |
| 15 | Optical parametric amplification of a Laguerre-Gaussian mode. <i>OSA Continuum</i> , 2019, 2, 236. | 1.8 | 9 |
| 16 | Experimental demonstration of a three-dimensional lithium niobate nonlinear photonic crystal. <i>Nature Photonics</i> , 2018, 12, 596-600. | 31.4 | 224 |
| 17 | Conical third-harmonic generation in a hexagonally poled LiTaO ₃ crystal. <i>Applied Physics Letters</i> , 2017, 110, . | 3.3 | 9 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Multiple generations of high-order orbital angular momentum modes through cascaded third-harmonic generation in a 2D nonlinear photonic crystal. Optics Express, 2017, 25, 11556. | 3.4 | 13 |
| 20 | Tunable third harmonic generation of vortex beams in an optical superlattice. Optics Express, 2017, 25, 30820. | 3.4 | 13 |
| 21 | On-chip generation of broadband high-order Laguerre-Gaussian modes in a metasurface. Optics Letters, 2017, 42, 2463. | 3.3 | 17 |
| 22 | Examining second-harmonic generation of high-order Laguerre-Gaussian modes through a single cylindrical lens. Optics Letters, 2017, 42, 4387. | 3.3 | 22 |
| 23 | Cascaded third-harmonic generation of an optical orbital angular-momentum state through quasi-phase matching. , 2017, , . | | 0 |
| 24 | Generations of multiple orbital angular momentum modes in 2D nonlinear photonic crystal. , 2017, , . | | 0 |
| 25 | Conical third-harmonic generation in a 2D periodically-poled crystal. , 2017, , . | | 0 |
| 26 | Conversion of the optical orbital angular momentum in a plasmon-assisted second-harmonic generation. Applied Physics Letters, 2016, 109, . | 3.3 | 20 |
| 27 | Coupled orbital angular momentum conversions in a quasi-periodically poled LiTaO ₃ crystal. Optics Letters, 2016, 41, 1169. | 3.3 | 35 |
| 28 | Nonlinear optical conversion of the orbital angular momentum of light in a PPLT crystal. , 2016, , . | | 3 |
| 29 | Multiple copies of orbital angular momentum states through second-harmonic generation in a two-dimensional periodically poled LiTaO ₃ crystal. Applied Physics Letters, 2015, 107, . | 3.3 | 28 |