

Yaoyu Cao

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,758
citations

257429

24
h-index

206102

48
g-index

54
all docs

54
docs citations

54
times ranked

2680
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional deep sub-diffraction optical beam lithography with 9â€‰nm feature size. Nature Communications, 2013, 4, 2061.	12.8	421
2	Optical storage arrays: a perspective for future big data storage. Light: Science and Applications, 2014, 3, e177-e177.	16.6	355
3	Diatomic Metasurface for Vectorial Holography. Nano Letters, 2018, 18, 2885-2892.	9.1	263
4	Fullâ€‰Color Complexâ€‰Amplitude Vectorial Holograms Based on Multiâ€‰Freedom Metasurfaces. Advanced Functional Materials, 2020, 30, 1910610.	14.9	214
5	Facile metagrating holograms with broadband and extreme angle tolerance. Light: Science and Applications, 2018, 7, 78.	16.6	134
6	Arbitrary polarization conversion dichroism metasurfaces for all-in-one full PoincarÃ© sphere polarizers. Light: Science and Applications, 2021, 10, 24.	16.6	126
7	High-photosensitive resin for super-resolution direct-laser-writing based on photoinhibited polymerization. Optics Express, 2011, 19, 19486.	3.4	112
8	Synthetic helical dichroism for six-dimensional optical orbital angular momentum multiplexing. Nature Photonics, 2021, 15, 901-907.	31.4	112
9	Superresolution-focal-volume induced 30â€‰Tbytes/disk capacity by focusing a radially polarized beam. Optics Letters, 2011, 36, 2510.	3.3	88
10	Laser-Splashed Three-Dimensional Plasmonic Nanovolcanoes for Steganography in Angular Anisotropy. ACS Nano, 2018, 12, 9233-9239.	14.6	83
11	Full-visible multifunctional aluminium metasurfaces by <i>in situ</i> anisotropic thermoplasmonic laser printing. Nanoscale Horizons, 2019, 4, 601-609.	8.0	77
12	Multifunctional metasurface: from extraordinary optical transmission to extraordinary optical diffraction in a single structure. Photonics Research, 2018, 6, 443.	7.0	73
13	Anapole mediated giant photothermal nonlinearity in nanostructured silicon. Nature Communications, 2020, 11, 3027.	12.8	69
14	Allâ€‰Dielectric Kissingâ€‰Dimer Metagratings for Asymmetric High Diffraction. Advanced Optical Materials, 2019, 7, 1901389.	7.3	42
15	Diffraction photonic applications mediated by laser reduced graphene oxides. Opto-Electronic Advances, 2018, 1, 17000201-17000208.	13.3	39
16	Segmented cylindrical vector beams for massively-encoded optical data storage. Science Bulletin, 2020, 65, 2072-2079.	9.0	36
17	Ultra-Broadband Directional Scattering by Colloidally Lithographed High-Index Mie Resonant Oligomers and Their Energy-Harvesting Applications. ACS Applied Materials & Interfaces, 2018, 10, 16776-16782.	8.0	34
18	Coloring solar cells with simultaneously high efficiency by low-index dielectric nanoparticles. Nano Energy, 2019, 62, 682-690.	16.0	34

#	ARTICLE	IF	CITATIONS
19	Functional Optical Plasmonic Resonators Fabricated via Highly Photosensitive Direct Laser Reduction. <i>Advanced Optical Materials</i> , 2016, 4, 529-533.	7.3	30
20	Ï€-phase modulated monolayer supercritical lens. <i>Nature Communications</i> , 2021, 12, 32.	12.8	30
21	Near-perfect fidelity polarization-encoded multilayer optical data storage based on aligned gold nanorods. <i>Opto-Electronic Advances</i> , 2021, 4, 210002-210002.	13.3	29
22	Generation of uniformly oriented in-plane magnetization with near-unity purity in 4Ï€ microscopy. <i>Optics Letters</i> , 2017, 42, 5050.	3.3	27
23	Atomically Thin Noble Metal Dichalcogenides for Phase-Regulated Meta-optics. <i>Nano Letters</i> , 2020, 20, 7811-7818.	9.1	27
24	Ultra-secure optical encryption based on tightly focused perfect optical vortex beams. <i>Nanophotonics</i> , 2022, 11, 1063-1070.	6.0	27
25	Polychromatic and polarized multilevel optical data storage. <i>Nanoscale</i> , 2019, 11, 2447-2452.	5.6	26
26	Dual-shot dynamics and ultimate frequency of all-optical magnetic recording on GdFeCo. <i>Light: Science and Applications</i> , 2021, 10, 8.	16.6	26
27	Full-visible transmissive metagratings with large angle/wavelength/polarization tolerance. <i>Nanoscale</i> , 2020, 12, 20604-20609.	5.6	22
28	Two-photon reduction: a cost-effective method for fabrication of functional metallic nanostructures. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	5.1	20
29	λ/26 silver nanodots fabricated by direct laser writing through highly sensitive two-photon photoreduction. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	19
30	Laser-splashed Plasmonic Nanocrater for Ratiometric Upconversion Regulation and Encryption. <i>Advanced Optical Materials</i> , 2019, 7, 1900610.	7.3	19
31	All-optical helicity-dependent magnetic switching by first-order azimuthally polarized vortex beams. <i>Applied Physics Letters</i> , 2018, 113, 171108.	3.3	17
32	Ultra-sensitive nanometric flat laser prints for binocular stereoscopic image. <i>Nature Communications</i> , 2021, 12, 1154.	12.8	15
33	Great chiral fluorescence from the optical duality of silver nanostructures enabled by 3D laser printing. <i>Materials Horizons</i> , 2020, 7, 3201-3208.	12.2	12
34	Reversible data encryption&dashrightarrow; decryption using a pH stimuli-responsive hydrogel. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2455-2463.	5.5	12
35	Plasmonic Nanoprobes for Multiplexed Fluorescence&dashrightarrow;Free Super&dashrightarrow;Resolution Imaging. <i>Advanced Optical Materials</i> , 2018, 6, 1800432.	7.3	10
36	3D high precision laser printing of a flat nanofocalizer for subwavelength light spot array. <i>Optics Letters</i> , 2021, 46, 356.	3.3	10

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37	Multilevel phase supercritical lens fabricated by synergistic optical lithography. Nanophotonics, 2020, 9, 1469-1477.	6.0	10
38	Super-resolution nanofabrication with metal-ion doped hybrid material through an optical dual-beam approach. Applied Physics Letters, 2014, 105, .	3.3	8
39	Nanointerferometric Discrimination of the Spin-Orbit Hall Effect. ACS Photonics, 2021, 8, 1169-1174.	6.6	8
40	Bidirectional plasmonic coloration with gold nanoparticles by wavelength-switched photoredox reaction. Nanoscale, 2018, 10, 21910-21917.	5.6	6
41	Invited Article: Saturation scattering competition for non-fluorescence single-wavelength super-resolution imaging. APL Photonics, 2018, 3, .	5.7	6
42	Laser nanoprinting of floating three-dimensional plasmonic color in pH-responsive hydrogel. Nanotechnology, 2022, 33, 065302.	2.6	6
43	Security-Enhanced 3D Data Encryption Using a Degradable pH-Responsive Hydrogel. Nanomaterials, 2021, 11, 1744.	4.1	5
44	3D Laser Nanoprinting of Optically Functionalized Structures with Effective-Refractive-Index Tailorable TiO ₂ Nanoparticle-Doped Photoresin. Nanomaterials, 2022, 12, 55.	4.1	4
45	Subwavelength generation of orientation-unlimited energy flow in 4f microscopy. Optics Express, 2022, 30, 138.	3.4	3
46	Next generation photonic storage: Ultra-high capacity, ultra-high security and ultra-long lifetime. , 2013, , .		2
47	Environmentally robust immersion supercritical lens with an invariable sub-diffraction-limited focal spot. Optics Letters, 2021, 46, 2296.	3.3	2
48	Super-resolution nanolithography in photoreduction polymers. , 2011, , .		1
49	New photoresists for super-resolution photo-inhibition nanofabrication. , 2011, , .		0
50	Investigation on tight focus of polarized beams through cylindrical dielectric interface. Optical Review, 2021, 28, 358-367.	2.0	0
51	Towards hydrogel optics: ultrafast direct laser printing aided optoelectronic functionalization of hydrogels. , 2021, , .		0