

Zhengji Xu

List of Publications by Year in descending order

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63
papers

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567144

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times ranked

1047
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Metasurface for Simultaneous Control of Spin and Orbital Angular Momentum in Second Harmonic Generation. <i>Nano Letters</i> , 2017, 17, 7974-7979.	4.5	112
2	On-chip discrimination of orbital angular momentum of light with plasmonic nanoslits. <i>Nanoscale</i> , 2016, 8, 2227-2233.	2.8	76
3	Large-area pixelated metasurface beam deflector on a 12-inch glass wafer for random point generation. <i>Nanophotonics</i> , 2019, 8, 1855-1861.	2.9	56
4	Demonstration of color display metasurfaces via immersion lithography on a 12-inch silicon wafer. <i>Optics Express</i> , 2018, 26, 19548.	1.7	55
5	Large-area metasurface on CMOS-compatible fabrication platform: driving flat optics from lab to fab. <i>Nanophotonics</i> , 2020, 9, 3071-3087.	2.9	54
6	Surface plasmon induced direct detection of long wavelength photons. <i>Nature Communications</i> , 2017, 8, 1660.	5.8	51
7	Multifunctional Hyperbolic Nanogroove Metasurface for Submolecular Detection. <i>Small</i> , 2017, 13, 1700600.	5.2	46
8	CMOS-compatible a-Si metalenses on a 12-inch glass wafer for fingerprint imaging. <i>Nanophotonics</i> , 2020, 9, 823-830.	2.9	46
9	CMOS-compatible all-Si metasurface polarizing bandpass filters on 12-inch wafers. <i>Optics Express</i> , 2019, 27, 26060.	1.7	39
10	Unidirectional surface plasmon-polariton excitation by a compact slot partially filled with dielectric. <i>Optics Express</i> , 2013, 21, 5949.	1.7	33
11	Polarization-Controlled Plasmonic Structured Illumination. <i>Nano Letters</i> , 2020, 20, 2602-2608.	4.5	29
12	Si metasurface half-wave plates demonstrated on a 12-inch CMOS platform. <i>Nanophotonics</i> , 2020, 9, 149-157.	2.9	28
13	Waveguide devices with homogeneous complementary media. <i>Optics Letters</i> , 2011, 36, 3855.	1.7	26
14	Transverse mode control in high-contrast grating VCSELs. <i>Optics Express</i> , 2014, 22, 20954.	1.7	21
15	Metasurface-based subtractive color filter fabricated on a 12-inch glass wafer using a CMOS platform. <i>Photonics Research</i> , 2021, 9, 13.	3.4	19
16	Groove-structured metasurfaces for modulation of surface plasmon propagation. <i>Applied Physics Express</i> , 2014, 7, 052001.	1.1	15
17	Study of dual color infrared photodetection from n-GaSb/n-InAsSb heterostructures. <i>AIP Advances</i> , 2016, 6, 025120.	0.6	10
18	Metal nanorod-based metamaterials for beam splitting and a subdiffraction-limited dark hollow light cone. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 085102.	1.0	9

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19	Designing arbitrary nanoscale patterns by a nanocavity waveguide with omnidirectional illumination. Applied Physics B: Lasers and Optics, 2012, 109, 215-219.	1.1	7
20	Surface Plasmon Enhancement on Infrared Photodetection. Procedia Engineering, 2016, 140, 152-158.	1.2	7
21	1550nm-Wavelength Metalens Demonstrated on 12-Inch Si CMOS Platform. , 2019, , .		7
22	Aluminum Nitride Ultralow Loss Waveguides and Push-Pull Electro-Optic Modulators for Near Infrared and Visible Integrated Photonics. , 2019, , .		7
23	Actively tunable Fano resonances based on colossal magneto-resistant metamaterials. Optics Letters, 2015, 40, 1286.	1.7	6
24	Two-dimensional metallic square-hole array for enhancement of mid-wavelength infrared photodetection. Optical and Quantum Electronics, 2016, 48, 1.	1.5	6
25	Embedded dielectric metasurface based subtractive color filter on a 300mm glass wafer. , 2019, , .		6
26	Large-area Metalens Directly Patterned on a 12-inch Glass Wafer using Immersion Lithography for Mass Production. , 2020, , .		5
27	A multi-layered split ring metamaterial for a multiwavelength and tunable lasing spaser. Journal of Optics (United Kingdom), 2012, 14, 045101.	1.0	4
28	Concentric cylindrical metamaterials for subwavelength dark hollow light cones. Journal of Optics (United Kingdom), 2012, 14, 114014.	1.0	4
29	Efficient and wide spectrum half-cylindrical hyperlens with symmetrical metallodielectric structure. Applied Physics A: Materials Science and Processing, 2012, 107, 31-34.	1.1	4
30	Design of sharp bends with transformation plasmonics. Applied Physics A: Materials Science and Processing, 2013, 112, 549-553.	1.1	4
31	InAs _{0.91} Sb _{0.09} photoconductor for near and middle infrared photodetection. Physica Scripta, 2016, 91, 115801.	1.2	4
32	Unidirectional generation of surface plasmon polaritons by a single right-angled trapezoid metallic nanoslit. Journal Physics D: Applied Physics, 2017, 50, 045101.	1.3	4
33	Hole array enhanced dual-band infrared photodetection. Optics Express, 2021, 29, 6424.	1.7	4
34	Polarization-robust mid-infrared carpet cloak with minimized lateral shift. Photonics Research, 2021, 9, 944.	3.4	4
35	Rotated fourfold U-shape metasurface for polarization-insensitive strong enhancement of mid-infrared photodetection. Optics Express, 2020, 28, 4225.	1.7	4
36	Long short-term memory neural network for directly inverse design of nanofin metasurface. Optics Letters, 2022, 47, 3239.	1.7	4

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37	Beam splitting with subwavelength resolution using combined metallodielectric films. Journal of Optics (United Kingdom), 2012, 14, 015103.	1.0	3
38	A buffer-free method for growth of InAsSb films on GaAs (001) substrates using MOCVD. Journal of Crystal Growth, 2017, 468, 252-257.	0.7	3
39	A Simple Method for the Growth of Very Smooth and Ultra-Thin GaSb Films on GaAs (111) Substrate by MOCVD. Journal of Electronic Materials, 2017, 46, 3867-3872.	1.0	3
40	A Performance Study of Dielectric Metalens with Process-Induced Defects. IEEE Photonics Journal, 2020, 12, 1-14.	1.0	3
41	An Improved Thermo-Optic Phase Shifter with AlN Block for Silicon Photonics. , 2019, , .		3
42	Demonstration of polarization-insensitive optical filters on silicon photonics platform. Optics Express, 2022, 30, 24852.	1.7	3
43	A sensitive sensor with a double U-shaped ring-based metamaterial. Applied Physics A: Materials Science and Processing, 2014, 117, 537-540.	1.1	2
44	Figure of Merit for Optimization of Metalâ€™Dielectric Multilayer Lenses. IEEE Nanotechnology Magazine, 2014, 13, 452-457.	1.1	2
45	Aluminum based structures for manipulating short visible wavelength in-plane surface plasmon polariton propagation. Optics Express, 2015, 23, 22883.	1.7	2
46	Metasurface Beam Deflector Array on a 12-inch Glass Wafer. , 2020, , .		2
47	Silicon Nitride Optical Phased Arrays with Cascaded Phase Shifters for Easy and Effective Electronic Control. , 2019, , .		2
48	Hybrid integrated single-wavelength laser with silicon micro-ring reflector. , 2018, , .		1
49	A Metalens Array on a 12-inch Glass Wafer for Optical Dot Projection. , 2020, , .		1
50	Comparative study of U- and U4-split-ring resonator-based metasurfaces for sensing in near- and mid-infrared region. Journal of Optics (United Kingdom), 2020, 22, 125104.	1.0	1
51	Guiding and routing surface plasmons with transformation-invariant metamaterials. Journal of Optics (United Kingdom), 2022, 24, 015003.	1.0	1
52	Computational Electromagnetics for Efficient Control Design of Massive MIMO and Beyond. , 2021, , .		1
53	Manipulating Surface Plasmon Polaritons on the meta-surface. , 2013, , .		0
54	Beam focusing by an anisotropic metal-dielectric multilayer structure. , 2013, , .		0

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55	Sub-wavelength structures and their optical properties. , 2014, , .		0
56	Cogwheels for generation of surface plasmon polariton vortex. International Journal of Nanotechnology, 2015, 12, 909.	0.1	0
57	Subwavelength dielectric nanorod chains for energy transfer in the visible range. Optics Letters, 2017, 42, 4223.	1.7	0
58	High performance index-coupled distributed feedback InAs/GaAs quantum dots-in-a-well lasers with laterally corrugated waveguides. , 2016, , .		0
59	Metasurface-based Waveplates Demonstrated on 300 mm Si CMOS Platform. , 2019, , .		0
60	Transmission Metalens with Fixed-Gap Nanopillars for Immersion Lithography Patterning on 12-inch Glass Wafer. , 2020, , .		0
61	Large-area Flat Optics via Immersion Lithography on CMOS Platform for Laser Beam Shaping. , 2020, , .		0
62	Metasurface Manufacturing on 300-mm Wafer Platforms. , 2020, , .		0
63	CMOS-Compatible Metasurface-based Subtractive Color Filters on a 300-mm Glass Wafer. , 2020, , .		0