

Zhengji Xu

List of Publications by Year in descending order

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papers

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times ranked

1047
citing authors

#	ARTICLE	IF	CITATIONS
1	Guiding and routing surface plasmons with transformation-invariant metamaterials. Journal of Optics (United Kingdom), 2022, 24, 015003.	1.0	1
2	Demonstration of polarization-insensitive optical filters on silicon photonics platform. Optics Express, 2022, 30, 24852.	1.7	3
3	Long short-term memory neural network for directly inverse design of nanofin metasurface. Optics Letters, 2022, 47, 3239.	1.7	4
4	Hole array enhanced dual-band infrared photodetection. Optics Express, 2021, 29, 6424.	1.7	4
5	Polarization-robust mid-infrared carpet cloak with minimized lateral shift. Photonics Research, 2021, 9, 944.	3.4	4
6	Metasurface-based subtractive color filter fabricated on a 12-inch glass wafer using a CMOS platform. Photonics Research, 2021, 9, 13.	3.4	19
7	Computational Electromagnetics for Efficient Control Design of Massive MIMO and Beyond. , 2021, , .		1
8	Si metasurface half-wave plates demonstrated on a 12-inch CMOS platform. Nanophotonics, 2020, 9, 149-157.	2.9	28
9	A Performance Study of Dielectric Metalens with Process-Induced Defects. IEEE Photonics Journal, 2020, 12, 1-14.	1.0	3
10	Polarization-Controlled Plasmonic Structured Illumination. Nano Letters, 2020, 20, 2602-2608.	4.5	29
11	CMOS-compatible a-Si metalenses on a 12-inch glass wafer for fingerprint imaging. Nanophotonics, 2020, 9, 823-830.	2.9	46
12	Rotated fourfold U-shape metasurface for polarization-insensitive strong enhancement of mid-infrared photodetection. Optics Express, 2020, 28, 4225.	1.7	4
13	Large-area Metalens Directly Patterned on a 12-inch Glass Wafer using Immersion Lithography for Mass Production. , 2020, , .		5
14	Metasurface Beam Deflector Array on a 12-inch Glass Wafer. , 2020, , .		2
15	Large-area metasurface on CMOS-compatible fabrication platform: driving flat optics from lab to fab. Nanophotonics, 2020, 9, 3071-3087.	2.9	54
16	Transmission Metalens with Fixed-Gap Nanopillars for Immersion Lithography Patterning on 12-inch Glass Wafer. , 2020, , .		0
17	Large-area Flat Optics via Immersion Lithography on CMOS Platform for Laser Beam Shaping. , 2020, , .		0
18	A Metalens Array on a 12-inch Glass Wafer for Optical Dot Projection. , 2020, , .		1

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19	Metasurface Manufacturing on 300-mm Wafer Platforms. , 2020, , .		0
20	CMOS-Compatible Metasurface-based Subtractive Color Filters on a 300-mm Glass Wafer. , 2020, , .		0
21	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
22	Large-area pixelated metasurface beam deflector on a 12-inch glass wafer for random point generation. Nanophotonics, 2019, 8, 1855-1861.	2.9	56
23	1550nm-Wavelength Metalens Demonstrated on 12-Inch Si CMOS Platform. , 2019, , .		7
24	CMOS-compatible all-Si metasurface polarizing bandpass filters on 12-inch wafers. Optics Express, 2019, 27, 26060.	1.7	39
25	Aluminum Nitride Ultralow Loss Waveguides and Push-Pull Electro-Optic Modulators for Near Infrared and Visible Integrated Photonics. , 2019, , .		7
26	Silicon Nitride Optical Phased Arrays with Cascaded Phase Shifters for Easy and Effective Electronic Control. , 2019, , .		2
27	Metasurface-based Waveplates Demonstrated on 300 mm Si CMOS Platform. , 2019, , .		0
28	An Improved Thermo-Optic Phase Shifter with AlN Block for Silicon Photonics. , 2019, , .		3
29	Embedded dielectric metasurface based subtractive color filter on a 300mm glass wafer. , 2019, , .		6
30	Demonstration of color display metasurfaces via immersion lithography on a 12-inch silicon wafer. Optics Express, 2018, 26, 19548.	1.7	55
31	Hybrid integrated single-wavelength laser with silicon micro-ring reflector. , 2018, , .		1
32	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
33	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
34	Multifunctional Hyperbolic Nanogroove Metasurface for Submolecular Detection. Small, 2017, 13, 1700600.	5.2	46
35	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
36	Nonlinear Metasurface for Simultaneous Control of Spin and Orbital Angular Momentum in Second Harmonic Generation. Nano Letters, 2017, 17, 7974-7979.	4.5	112

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37	Surface plasmon induced direct detection of long wavelength photons. Nature Communications, 2017, 8, 1660.	5.8	51
38	Subwavelength dielectric nanorod chains for energy transfer in the visible range. Optics Letters, 2017, 42, 4223.	1.7	0
39	Study of dual color infrared photodetection from n-GaSb/n-InAsSb heterostructures. AIP Advances, 2016, 6, 025120.	0.6	10
40	Surface Plasmon Enhancement on Infrared Photodetection. Procedia Engineering, 2016, 140, 152-158.	1.2	7
41	InAs _{0.91} Sb _{0.09} photoconductor for near and middle infrared photodetection. Physica Scripta, 2016, 91, 115801.	1.2	4
42	Two-dimensional metallic square-hole array for enhancement of mid-wavelength infrared photodetection. Optical and Quantum Electronics, 2016, 48, 1.	1.5	6
43	On-chip discrimination of orbital angular momentum of light with plasmonic nanoslits. Nanoscale, 2016, 8, 2227-2233.	2.8	76
44	High performance index-coupled distributed feedback InAs/GaAs quantum dots-in-a-well lasers with laterally corrugated waveguides. , 2016, , .		0
45	Cogwheels for generation of surface plasmon polariton vortex. International Journal of Nanotechnology, 2015, 12, 909.	0.1	0
46	Aluminum based structures for manipulating short visible wavelength in-plane surface plasmon polariton propagation. Optics Express, 2015, 23, 22883.	1.7	2
47	Actively tunable Fano resonances based on colossal magneto-resistant metamaterials. Optics Letters, 2015, 40, 1286.	1.7	6
48	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
49	Transverse mode control in high-contrast grating VCSELs. Optics Express, 2014, 22, 20954.	1.7	21
50	Groove-structured metasurfaces for modulation of surface plasmon propagation. Applied Physics Express, 2014, 7, 052001.	1.1	15
51	Figure of Merit for Optimization of Metal-Dielectric Multilayer Lenses. IEEE Nanotechnology Magazine, 2014, 13, 452-457.	1.1	2
52	Sub-wavelength structures and their optical properties. , 2014, , .		0
53	Design of sharp bends with transformation plasmonics. Applied Physics A: Materials Science and Processing, 2013, 112, 549-553.	1.1	4
54	Manipulating Surface Plasmon Polaritons on the meta-surface. , 2013, , .		0

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55	Beam focusing by an anisotropic metal-dielectric multilayer structure. , 2013, , .		0
56	Unidirectional surface plasmon-polariton excitation by a compact slot partially filled with dielectric. Optics Express, 2013, 21, 5949.	1.7	33
57	Beam splitting with subwavelength resolution using combined metallodielectric films. Journal of Optics (United Kingdom), 2012, 14, 015103.	1.0	3
58	A multi-layered split ring metamaterial for a multiwavelength and tunable lasing spaser. Journal of Optics (United Kingdom), 2012, 14, 045101.	1.0	4
59	Designing arbitrary nanoscale patterns by a nanocavity waveguide with omnidirectional illumination. Applied Physics B: Lasers and Optics, 2012, 109, 215-219.	1.1	7
60	Concentric cylindrical metamaterials for subwavelength dark hollow light cones. Journal of Optics (United Kingdom), 2012, 14, 114014.	1.0	4
61	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
62	Waveguide devices with homogeneous complementary media. Optics Letters, 2011, 36, 3855.	1.7	26
63	Metal nanorod-based metamaterials for beam splitting and a subdiffraction-limited dark hollow light cone. Journal of Optics (United Kingdom), 2011, 13, 085102.	1.0	9