

Ting Xu

List of Publications by Year in descending order

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87
papers

6,252
citations

76322

40
h-index

66906

78
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90
all docs

90
docs citations

90
times ranked

6354
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of achromatic auto-focusing Airy beam for visible light by an all-dielectric metasurface. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	4
2	Full-Stokes Polarimetry for Visible Light Enabled by an All-Dielectric Metasurface. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	17
3	Vertically Aligned Micropillar Arrays Coated with a Conductive Polymer for Advanced Pseudocapacitance Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10805-10814.	8.0	20
4	Trilobite-inspired neural nanophotonic light-field camera with extreme depth-of-field. <i>Nature Communications</i> , 2022, 13, 2130.	12.8	62
5	Tannic acid-reinforced zwitterionic hydrogels with multi-functionalities for diabetic wound treatment. <i>Journal of Materials Chemistry B</i> , 2022, 10, 4142-4152.	5.8	21
6	Polarization-insensitive optical angular filtration enabled by defective photonic crystals. <i>Applied Physics Letters</i> , 2022, 120, 241104.	3.3	2
7	Lithography-Free Nanofilm Color Filters Composed of CMOS-Compatible Materials. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 672-675.	2.5	2
8	Design of high efficiency achromatic metalens with large operation bandwidth using bilayer architecture. <i>Opto-Electronic Advances</i> , 2021, 4, 200008-200008.	13.3	94
9	Principles, Functions, and Applications of Optical Meta-Lens. <i>Advanced Optical Materials</i> , 2021, 9, 2001414.	7.3	112
10	Broadband generation of perfect Poincaré beams via dielectric spin-multiplexed metasurface. <i>Nature Communications</i> , 2021, 12, 2230.	12.8	119
11	Recent advances in ultraviolet nanophotonics: from plasmonics and metamaterials to metasurfaces. <i>Nanophotonics</i> , 2021, 10, 2283-2308.	6.0	47
12	Multifunctional metasurfaces enabled by simultaneous and independent control of phase and amplitude for orthogonal polarization states. <i>Light: Science and Applications</i> , 2021, 10, 107.	16.6	167
13	Dynamically tunable coherent perfect absorption in topological insulators at oblique incidence. <i>Optics Express</i> , 2021, 29, 28652.	3.4	10
14	Generation of Perfect Vortex Beams by Dielectric Geometric Metasurface for Visible Light. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100390.	8.7	61
15	Flexible perovskite nanosheet-based photodetectors for ultraviolet communication applications. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	11
16	Photonic Metamaterial Absorbers: Morphology Engineering and Interdisciplinary Applications. <i>Advanced Materials</i> , 2020, 32, e1903787.	21.0	116
17	Coherent and incoherent coupling dynamics in a two-dimensional atomic crystal embedded in a plasmon-induced magnetic resonator. <i>Physical Review B</i> , 2020, 101, .	3.2	20
18	Plasmon-plasmon interactions supported by a one-dimensional plasmonic crystal: Rabi phase and generalized Rabi frequency. <i>Physical Review B</i> , 2020, 102, .	3.2	9

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19	Mechano-Responsive, Tough, and Antibacterial Zwitterionic Hydrogels with Controllable Drug Release for Wound Healing Applications. ACS Applied Materials & Interfaces, 2020, 12, 52307-52318.	8.0	95
20	Broadband Detection of Multiple Spin and Orbital Angular Momenta via Dielectric Metasurface. Laser and Photonics Reviews, 2020, 14, 2000062.	8.7	58
21	Photonic Spin-Multiplexing Metasurface for Switchable Spiral Phase Contrast Imaging. Nano Letters, 2020, 20, 2791-2798.	9.1	180
22	Ultra-compact visible light depolarizer based on dielectric metasurface. Applied Physics Letters, 2020, 116, 0511031-511035.	3.3	9
23	Low-loss metasurface optics down to the deep ultraviolet region. Light: Science and Applications, 2020, 9, 55.	16.6	150
24	Low-cost and high sensitivity glucose sandwich detection using a plasmonic nanodisk metasurface. Nanoscale, 2020, 12, 10809-10815.	5.6	25
25	Independent Amplitude Control of Arbitrary Orthogonal States of Polarization via Dielectric Metasurfaces. Physical Review Letters, 2020, 125, 267402.	7.8	131
26	Electrochromic modulation of plasmonic resonance in a PEDOT-coated nanodisk metasurface. Optical Materials Express, 2020, 10, 1053.	3.0	10
27	Photorealistic full-color nanopainting enabled by a low-loss metasurface. Optica, 2020, 7, 1171.	9.3	57
28	Nanopainting with Light. Optics and Photonics News, 2020, 31, 42.	0.5	0
29	Hyperbolic Metamaterials: Hyperbolic Metamaterials and Metasurfaces: Fundamentals and Applications (Advanced Optical Materials 14/2019). Advanced Optical Materials, 2019, 7, 1970054.	7.3	5
30	An ultra-flexible plasmonic metamaterial film for efficient omnidirectional and broadband optical absorption. Nanoscale, 2019, 11, 437-443.	5.6	29
31	A self-assembled plasmonic optical fiber nanoprobe for label-free biosensing. Scientific Reports, 2019, 9, 7379.	3.3	36
32	Photonic spin-controlled generation and transformation of 3D optical polarization topologies enabled by all-dielectric metasurfaces. Nanoscale, 2019, 11, 10646-10654.	5.6	18
33	Hyperbolic Metamaterials and Metasurfaces: Fundamentals and Applications. Advanced Optical Materials, 2019, 7, 1801616.	7.3	144
34	Tape-Imprinted Hierarchical Lotus Seedpod-Like Arrays for Extraordinary Surface-Enhanced Raman Spectroscopy. Small, 2019, 15, e1804527.	10.0	38
35	Nanoprinted Biosensors: Large-Scale Plasmonic Nanodisk Structures for a High Sensitivity Biosensing Platform Fabricated by Transfer Nanoprinting (Advanced Optical Materials 7/2019). Advanced Optical Materials, 2019, 7, 1970026.	7.3	1
36	Large-Scale Plasmonic Nanodisk Structures for a High Sensitivity Biosensing Platform Fabricated by Transfer Nanoprinting. Advanced Optical Materials, 2019, 7, 1801269.	7.3	32

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37	Effect of solvent-matrix interactions on structures and mechanical properties of micelle-crosslinked gels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 473-483.	2.1	8
38	Broadband Generation of Photonic Spin-Controlled Arbitrary Accelerating Light Beams in the Visible. <i>Nano Letters</i> , 2019, 19, 1158-1165.	9.1	94
39	Tough, Adhesive, Self-Healable, and Transparent Ionically Conductive Zwitterionic Nanocomposite Hydrogels as Skin Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3506-3515.	8.0	309
40	Polarization-independent infrared micro-lens array based on all-silicon metasurfaces. <i>Optics Express</i> , 2019, 27, 10738.	3.4	37
41	Comparative investigation of sensing behaviors between gap and lattice plasmon modes in a metallic nanoring array. <i>Nanoscale</i> , 2018, 10, 548-555.	5.6	32
42	A high numerical aperture, polarization-insensitive metalens for long-wavelength infrared imaging. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	58
43	Ultrastretchable Strain Sensors and Arrays with High Sensitivity and Linearity Based on Super Tough Conductive Hydrogels. <i>Chemistry of Materials</i> , 2018, 30, 8062-8069.	6.7	318
44	Snap-Buckling Motivated Controllable Jumping of Thermo-Responsive Hydrogel Bilayers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41724-41731.	8.0	90
45	Angular Optical Transparency Induced by Photonic Topological Transitions in Metamaterials. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700309.	8.7	26
46	Experimental investigation of extraordinary optical behaviors in a freestanding plasmonic cascade grating at visible frequency. <i>Optics Express</i> , 2018, 26, 3271.	3.4	4
47	Dual-band nearly perfect absorber at visible frequencies. <i>Optical Materials Express</i> , 2018, 8, 463.	3.0	46
48	Coherent and incoherent damping pathways mediated by strong coupling of two-dimensional atomic crystals with metallic nanogrooves. <i>Physical Review B</i> , 2018, 97, .	3.2	19
49	Experimental demonstration of high sensitivity refractive index sensing based on magnetic plasmons in a simple metallic deep nanogroove array. <i>Optics Express</i> , 2018, 26, 34122.	3.4	12
50	High-efficiency, linear-polarization-multiplexing metalens for long-wavelength infrared light. <i>Optics Letters</i> , 2018, 43, 6005.	3.3	25
51	Ultra-thin plasmonic color filters incorporating free-standing resonant membrane waveguides with high transmission efficiency. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	42
52	Visible light focusing flat lenses based on hybrid dielectric-metal metasurface reflector-arrays. <i>Scientific Reports</i> , 2017, 7, 45044.	3.3	40
53	Surface plasmon polariton laser based on a metallic trench Fabry-Perot resonator. <i>Science Advances</i> , 2017, 3, e1700909.	10.3	70
54	Engineering Light at the Nanoscale: Structural Color Filters and Broadband Perfect Absorbers. <i>Advanced Optical Materials</i> , 2017, 5, 1700368.	7.3	141

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55	Subradiant Dipolar Interactions in Plasmonic Nanoring Resonator Array for Integrated Label-Free Biosensing. <i>ACS Sensors</i> , 2017, 2, 1796-1804.	7.8	45
56	Broadband enhancement of photoluminance from colloidal metal halide perovskite nanocrystals on plasmonic nanostructured surfaces. <i>Scientific Reports</i> , 2017, 7, 14695.	3.3	6
57	Aperiodic nanoplasmonic devices for directional colour filtering and sensing. <i>Nature Communications</i> , 2017, 8, 1347.	12.8	24
58	Free-standing plasmonic metal-dielectric-metal bandpass filter with high transmission efficiency. <i>Scientific Reports</i> , 2017, 7, 4357.	3.3	26
59	Large-scale broadband absorber based on metallic tungsten nanocone structure. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	32
60	Hybrid metasurface for broadband enhancing optical absorption and Raman spectroscopy of graphene. <i>Optical Materials Express</i> , 2017, 7, 3591.	3.0	8
61	Freestanding optical negative-index metamaterials of green light. <i>Optics Letters</i> , 2017, 42, 3239.	3.3	12
62	Autofocusing Airy beams generated by all-dielectric metasurface for visible light. <i>Optics Express</i> , 2017, 25, 9285.	3.4	71
63	On-chip generation of broadband high-order Laguerre-Gaussian modes in a metasurface. <i>Optics Letters</i> , 2017, 42, 2463.	3.3	17
64	Research progress of imaging technologies based on electromagnetic metasurfaces. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2017, 66, 144208.	0.5	6
65	Plasmonic Nanoresonators for Spectral Color Filters and Structural Colored Pigments. , 2017, , 361-409.		0
66	Colored dual-functional photovoltaic cells. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 064003.	2.2	17
67	High-contrast and fast electrochromic switching enabled by plasmonics. <i>Nature Communications</i> , 2016, 7, 10479.	12.8	226
68	High-Contrast Nanoparticle Sensing using a Hyperbolic Metamaterial. , 2015, , .		1
69	Visible-frequency asymmetric transmission devices incorporating a hyperbolic metamaterial. <i>Nature Communications</i> , 2014, 5, 4141.	12.8	120
70	All-angle negative refraction and active flat lensing of ultraviolet light. <i>Nature</i> , 2013, 497, 470-474.	27.8	277
71	All-Angle Left-handed Metamaterial and Active Flat Lensing in the Ultraviolet. , 2013, , .		0
72	Photonic Color Filters Integrated with Organic Solar Cells for Energy Harvesting. <i>ACS Nano</i> , 2011, 5, 7055-7060.	14.6	167

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73	Structural Colors: From Plasmonic to Carbon Nanostructures. <i>Small</i> , 2011, 7, 3128-3136.	10.0	149
74	High efficiency resonance-based spectrum filters with tunable transmission bandwidth fabricated using nanoimprint lithography. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	175
75	High Efficiency and High Resolution Plasmonic Color Filters for Display Applications. , 2011, , .		0
76	Toward Low-Cost, High-Efficiency, and Scalable Organic Solar Cells with Transparent Metal Electrode and Improved Domain Morphology. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1807-1820.	2.9	68
77	Plasmonic nanoresonators for high-resolution colour filtering and spectral imaging. <i>Nature Communications</i> , 2010, 1, 59.	12.8	687
78	Efficiency Enhancement of Organic Solar Cells Using Transparent Plasmonic Ag Nanowire Electrodes. <i>Advanced Materials</i> , 2010, 22, 4378-4383.	21.0	343
79	Multilayer pattern transfer for plasmonic color filter applications. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C6O60-C6O63.	1.2	25
80	Subwavelength grating structures with magnetic resonances at visible frequencies fabricated by nanoimprint lithography for large area applications. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 3175.	1.3	5
81	Localizing surface plasmons with a metal-cladding superlens for projecting deep-subwavelength patterns. <i>Applied Physics B: Lasers and Optics</i> , 2009, 97, 175-179.	2.2	52
82	Subwavelength nanolithography based on unidirectional excitation of surface plasmons. <i>Journal of Optics</i> , 2009, 11, 085003.	1.5	21
83	Plasmonic beam deflector. <i>Optics Express</i> , 2008, 16, 4753.	3.4	105
84	Sub-diffraction-limited interference photolithography with metamaterials. <i>Optics Express</i> , 2008, 16, 13579.	3.4	65
85	Interference photolithography with metamaterials. , 2008, , .		0
86	Directional excitation of surface plasmons with subwavelength slits. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	123
87	Subwavelength imaging by metallic slab lens with nanoslits. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	88