Ting Xu

List of Publications by Year
in descending order

87 papers	6,252 citations	76294 40 h-index	66879 78 g-index
90 all docs	90 docs citations	90 times ranked	6354 citing authors

#	Article	IF	Citations
1	Plasmonic nanoresonators for high-resolution colour filtering and spectral imaging. Nature Communications, 2010, 1, 59.	5.8	687
2	Efficiency Enhancement of Organic Solar Cells Using Transparent Plasmonic Ag Nanowire Electrodes. Advanced Materials, 2010, 22, 4378-4383.	11.1	343
3	Ultrastretchable Strain Sensors and Arrays with High Sensitivity and Linearity Based on Super Tough Conductive Hydrogels. Chemistry of Materials, 2018, 30, 8062-8069.	3.2	318
4	Tough, Adhesive, Self-Healable, and Transparent Ionically Conductive Zwitterionic Nanocomposite Hydrogels as Skin Strain Sensors. ACS Applied Materials & Interfaces, 2019, 11, 3506-3515.	4.0	309
5	All-angle negative refraction and active flat lensing of ultraviolet light. Nature, 2013, 497, 470-474.	13.7	277
6	High-contrast and fast electrochromic switching enabled by plasmonics. Nature Communications, 2016, 7, 10479.	5.8	226
7	Photonic Spin-Multiplexing Metasurface for Switchable Spiral Phase Contrast Imaging. Nano Letters, 2020, 20, 2791-2798.	4.5	180
8	High efficiency resonance-based spectrum filters with tunable transmission bandwidth fabricated using nanoimprint lithography. Applied Physics Letters, 2011, 99, .	1.5	175
9	Photonic Color Filters Integrated with Organic Solar Cells for Energy Harvesting. ACS Nano, 2011, 5, 7055-7060.	7.3	167
10	Multifunctional metasurfaces enabled by simultaneous and independent control of phase and amplitude for orthogonal polarization states. Light: Science and Applications, 2021, 10, 107.	7.7	167
11	Low-loss metasurface optics down to the deep ultraviolet region. Light: Science and Applications, 2020, 9, 55.	7.7	150
12	Structural Colors: From Plasmonic to Carbon Nanostructures. Small, 2011, 7, 3128-3136.	5.2	149
13	Hyperbolic Metamaterials and Metasurfaces: Fundamentals and Applications. Advanced Optical Materials, 2019, 7, 1801616.	3.6	144
14	Engineering Light at the Nanoscale: Structural Color Filters and Broadband Perfect Absorbers. Advanced Optical Materials, 2017, 5, 1700368.	3.6	141
15	Independent Amplitude Control of Arbitrary Orthogonal States of Polarization via Dielectric Metasurfaces. Physical Review Letters, 2020, 125, 267402.	2.9	131
16	Directional excitation of surface plasmons with subwavelength slits. Applied Physics Letters, 2008, 92, .	1.5	123
17	Visible-frequency asymmetric transmission devices incorporating a hyperbolic metamaterial. Nature Communications, 2014, 5, 4141.	5.8	120
18	Broadband generation of perfect PoincarÃ© beams via dielectric spin-multiplexed metasurface. Nature Communications, 2021, 12, 2230.	5.8	119

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19	Photonic Metamaterial Absorbers: Morphology Engineering and Interdisciplinary Applications. Advanced Materials, 2020, 32, e1903787.	11.1	116
20	Principles, Functions, and Applications of Optical Metaâ€Lens. Advanced Optical Materials, 2021, 9, 2001414.	3.6	112
21	Plasmonic beam deflector. Optics Express, 2008, 16, 4753.	1.7	105
22	Mechano-Responsive, Tough, and Antibacterial Zwitterionic Hydrogels with Controllable Drug Release for Wound Healing Applications. ACS Applied Materials & Interfaces, 2020, 12, 52307-52318.	4.0	95
23	Broadband Generation of Photonic Spin-Controlled Arbitrary Accelerating Light Beams in the Visible. Nano Letters, 2019, 19, 1158-1165.	4.5	94
24	Design of high efficiency achromatic metalens with large operation bandwidth using bilayer architecture. Opto-Electronic Advances, 2021, 4, 200008-200008.	6.4	94
25	Snap-Buckling Motivated Controllable Jumping of Thermo-Responsive Hydrogel Bilayers. ACS Applied Materials & Interfaces, 2018, 10, 41724-41731.	4.0	90
26	Subwavelength imaging by metallic slab lens with nanoslits. Applied Physics Letters, 2007, 91, .	1.5	88
27	Autofocusing Airy beams generated by all-dielectric metasurface for visible light. Optics Express, 2017, 25, 9285.	1.7	71
28	Surface plasmon polariton laser based on a metallic trench Fabry-Perot resonator. Science Advances, 2017, 3, e1700909.	4.7	70
29	Toward Low-Cost, High-Efficiency, and Scalable Organic Solar Cells with Transparent Metal Electrode and Improved Domain Morphology. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1807-1820.	1.9	68
30	Sub-diffraction-limited interference photolithography with metamaterials. Optics Express, 2008, 16, 13579.	1.7	65
31	Trilobite-inspired neural nanophotonic light-field camera with extreme depth-of-field. Nature Communications, 2022, 13, 2130.	5.8	62
32	Generation of Perfect Vortex Beams by Dielectric Geometric Metasurface for Visible Light. Laser and Photonics Reviews, 2021, 15, 2100390.	4.4	61
33	A high numerical aperture, polarization-insensitive metalens for long-wavelength infrared imaging. Applied Physics Letters, 2018, 113, .	1.5	58
34	Broadband Detection of Multiple Spin and Orbital Angular Momenta via Dielectric Metasurface. Laser and Photonics Reviews, 2020, 14, 2000062.	4.4	58
35	Photorealistic full-color nanopainting enabled by a low-loss metasurface. Optica, 2020, 7, 1171.	4.8	57
36	Localizing surface plasmons with a metal-cladding superlens forÂprojecting deep-subwavelength patterns. Applied Physics B: Lasers and Optics, 2009, 97, 175-179.	1.1	52

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37	Recent advances in ultraviolet nanophotonics: from plasmonics and metamaterials to metasurfaces. Nanophotonics, 2021, 10, 2283-2308.	2.9	47
38	Dual-band nearly perfect absorber at visible frequencies. Optical Materials Express, 2018, 8, 463.	1.6	46
39	Subradiant Dipolar Interactions in Plasmonic Nanoring Resonator Array for Integrated Label-Free Biosensing. ACS Sensors, 2017, 2, 1796-1804.	4.0	45
40	Ultra-thin plasmonic color filters incorporating free-standing resonant membrane waveguides with high transmission efficiency. Applied Physics Letters, 2017, 110, .	1.5	42
41	Visible light focusing flat lenses based on hybrid dielectric-metal metasurface reflector-arrays. Scientific Reports, 2017, 7, 45044.	1.6	40
42	Tapeâ€Imprinted Hierarchical Lotus Seedpodâ€Like Arrays for Extraordinary Surfaceâ€Enhanced Raman Spectroscopy. Small, 2019, 15, e1804527.	5.2	38
43	Polarization-independent infrared micro-lens array based on all-silicon metasurfaces. Optics Express, 2019, 27, 10738.	1.7	37
44	A self-assembled plasmonic optical fiber nanoprobe for label-free biosensing. Scientific Reports, 2019, 9, 7379.	1.6	36
45	Large-scale broadband absorber based on metallic tungsten nanocone structure. Applied Physics Letters, 2017, 111, .	1.5	32
46	Comparative investigation of sensing behaviors between gap and lattice plasmon modes in a metallic nanoring array. Nanoscale, 2018, 10, 548-555.	2.8	32
47	Largeâ€Scale Plasmonic Nanodisk Structures for a High Sensitivity Biosensing Platform Fabricated by Transfer Nanoprinting. Advanced Optical Materials, 2019, 7, 1801269.	3.6	32
48	An ultra-flexible plasmonic metamaterial film for efficient omnidirectional and broadband optical absorption. Nanoscale, 2019, 11, 437-443.	2.8	29
49	Free-standing plasmonic metal-dielectric-metal bandpass filter with high transmission efficiency. Scientific Reports, 2017, 7, 4357.	1.6	26
50	Angular Optical Transparency Induced by Photonic Topological Transitions in Metamaterials. Laser and Photonics Reviews, 2018, 12, 1700309.	4.4	26
51	Multilayer pattern transfer for plasmonic color filter applications. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6O60-C6O63.	0.6	25
52	Low-cost and high sensitivity glucose sandwich detection using a plasmonic nanodisk metasurface. Nanoscale, 2020, 12, 10809-10815.	2.8	25
53	High-efficiency, linear-polarization-multiplexing metalens for long-wavelength infrared light. Optics Letters, 2018, 43, 6005.	1.7	25
54	Aperiodic nanoplasmonic devices for directional colour filtering and sensing. Nature Communications, 2017, 8, 1347.	5.8	24

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55	Subwavelength nanolithography based on unidirectional excitation of surface plasmons. Journal of Optics, 2009, 11, 085003.	1.5	21
56	Tannic acid-reinforced zwitterionic hydrogels with multi-functionalities for diabetic wound treatment. Journal of Materials Chemistry B, 2022, 10, 4142-4152.	2.9	21
57	Coherent and incoherent coupling dynamics in a two-dimensional atomic crystal embedded in a plasmon-induced magnetic resonator. Physical Review B, 2020, 101, .	1.1	20
58	Vertically Aligned Micropillar Arrays Coated with a Conductive Polymer for Advanced Pseudocapacitance Energy Storage. ACS Applied Materials & Interfaces, 2022, 14, 10805-10814.	4.0	20
59	Coherent and incoherent damping pathways mediated by strong coupling of two-dimensional atomic crystals with metallic nanogrooves. Physical Review B, 2018, 97, .	1.1	19
60	Photonic spin-controlled generation and transformation of 3D optical polarization topologies enabled by all-dielectric metasurfaces. Nanoscale, 2019, 11, 10646-10654.	2.8	18
61	Colored dual-functional photovoltaic cells. Journal of Optics (United Kingdom), 2016, 18, 064003.	1.0	17
62	On-chip generation of broadband high-order Laguerreâ€“Gaussian modes in a metasurface. Optics Letters, 2017, 42, 2463.	1.7	17
63	Fullâ€Stokes Polarimetry for Visible Light Enabled by an Allâ€Dielectric Metasurface. Advanced Photonics Research, 2022, 3, .	1.7	17
64	Freestanding optical negative-index metamaterials of green light. Optics Letters, 2017, 42, 3239.	1.7	12
65	Experimental demonstration of high sensitivity refractive index sensing based on magnetic plasmons in a simple metallic deep nanogroove array. Optics Express, 2018, 26, 34122.	1.7	12
66	Flexible perovskite nanosheet-based photodetectors for ultraviolet communication applications. Applied Physics Letters, 2021, 119, .	1.5	11
67	Dynamically tunable coherent perfect absorption in topological insulators at oblique incidence. Optics Express, 2021, 29, 28652.	1.7	10
68	Electrochromic modulation of plasmonic resonance in a PEDOT-coated nanodisk metasurface. Optical Materials Express, 2020, 10, 1053.	1.6	10
69	Plasmon-plasmon interactions supported by a one-dimensional plasmonic crystal: Rabi phase and generalized Rabi frequency. Physical Review B, 2020, 102, .	1.1	9
70	Ultra-compact visible light depolarizer based on dielectric metasurface. Applied Physics Letters, 2020, 116, 0511031-511035.	1.5	9
71	Hybrid metasurface for broadband enhancing optical absorption and Raman spectroscopy of graphene. Optical Materials Express, 2017, 7, 3591.	1.6	8
72	Effect of solventâ€“matrix interactions on structures and mechanical properties of micelleâ€crosslinked gels. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 473-483.	2.4	8

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73	Broadband enhancement of photoluminance from colloidal metal halide perovskite nanocrystals on plasmonic nanostructured surfaces. Scientific Reports, 2017, 7, 14695.	1.6	6
74	Research progress of imaging technologies based on electromagnetic metasurfaces. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 144208.	0.2	6
75	Subwavelength grating structures with magnetic resonances at visible frequencies fabricated by nanoimprint lithography for large area applications. Journal of Vacuum Science & Technology B, 2009, 27, 3175.	1.3	5
76	Hyperbolic Metamaterials: Hyperbolic Metamaterials and Metasurfaces: Fundamentals and Applications (Advanced Optical Materials 14/2019). Advanced Optical Materials, 2019, 7, 1970054.	3.6	5
77	Experimental investigation of extraordinary optical behaviors in a freestanding plasmonic cascade grating at visible frequency. Optics Express, 2018, 26, 3271.	1.7	4
78	Generation of achromatic auto-focusing Airy beam for visible light by an all-dielectric metasurface. Journal of Applied Physics, 2022, 131, .	1.1	4
79	Lithography-Free Nanofilm Color Filters Composed of CMOS-Compatible Materials. IEEE Photonics Technology Letters, 2021, 33, 672-675.	1.3	2
80	Polarization-insensitive optical angular filtration enabled by defective photonic crystals. Applied Physics Letters, 2022, 120, 241104.	1.5	2
81	Nanoprinted Biosensors: Largeâ€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.	3.6	1
82	High-Contrast Nanoparticle Sensing using a Hyperbolic Metamaterial. , 2015, , .		1
83	Interference photolithography with metamaterials. , 2008, , .		0
84	High Efficiency and High Resolution Plasmonic Color Filters for Display Applications. , 2011, , .		0
85	All-Angle Left-handed Metamaterial and Active Flat Lensing in the Ultraviolet. , 2013, , .		0
86	Plasmonic Nanoresonators for Spectral Color Filters and Structural Colored Pigments. , 2017, , 361-409.		0
87	Nanopainting with Light. Optics and Photonics News, 2020, 31, 42.	0.4	0