Xiang

List of Publications by Year
in descending order

33	5,623	304368	414034
papers	citations	22	32
		h-index	g-index

33	33	33	3082
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coding metamaterials, digital metamaterials and programmable metamaterials. Light: Science and Applications, 2014, 3, e218-e218.	7.7	2,167
2	Electromagnetic reprogrammable coding-metasurface holograms. Nature Communications, 2017, 8, 197.	5.8	747
3	Space-time-coding digital metasurfaces. Nature Communications, 2018, 9, 4334.	5.8	728
4	Convolution Operations on Coding Metasurface to Reach Flexible and Continuous Controls of Terahertz Beams. Advanced Science, 2016, 3, 1600156.	5.6	343
5	Field-programmable beam reconfiguring based on digitally-controlled coding metasurface. Scientific Reports, 2016, 6, 20663.	1.6	201
6	Transmission-Type 2-Bit Programmable Metasurface for Single-Sensor and Single-Frequency Microwave Imaging. Scientific Reports, 2016, 6, 23731.	1.6	165
7	A broadband transformation-optics metasurface lens. Applied Physics Letters, 2014, 104, 151601.	1.5	132
8	Information Metamaterial Systems. IScience, 2020, 23, 101403.	1.9	132
9	Planar bifunctional Luneburg-fisheye lens made of an anisotropic metasurface. Laser and Photonics Reviews, 2014, 8, 757-765.	4.4	108
10	Frequency-Controls of Electromagnetic Multi-Beam Scanning by Metasurfaces. Scientific Reports, 2014, 4, 6921.	1.6	107
11	Independent controls of orthogonally polarized transmitted waves using a Huygens metasurface. Laser and Photonics Reviews, 2015, 9, 545-553.	4.4	91
12	Reconfigurable conversions of reflection, transmission, and polarization states using active metasurface. Applied Physics Letters, 2017, 110, .	1.5	90
13	Multichannel direct transmissions of near-field information. Light: Science and Applications, 2019, 8, 60.	7.7	83
14	Dynamically Realizing Arbitrary Multi-Bit Programmable Phases Using a 2-Bit Time-Domain Coding Metasurface. IEEE Transactions on Antennas and Propagation, 2020, 68, 2984-2992.	3.1	69
15	Broadband metasurface for independent control of reflected amplitude and phase. AIP Advances, 2016, 6, .	0.6	58
16	Single Sensor to Estimate DOA With Programmable Metasurface. IEEE Internet of Things Journal, 2021, 8, 10187-10197.	5.5	57
17	Reconfigurable Sum and Difference Beams Based on a Binary Programmable Metasurface. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 381-385.	2.4	50
18	Manipulations of Dual Beams with Dual Polarizations by Full‐Tensor Metasurfaces. Advanced Optical Materials, 2016, 4, 1567-1572.	3.6	44

#	Article	IF	Citations
19	Simultaneous controls of surface waves and propagating waves by metasurfaces. Applied Physics Letters, 2014, 105, .	1.5	40
20	Guiding spoof surface plasmon polaritons by infinitely thin grooved metal strip. AIP Advances, 2014, 4, .	0.6	36
21	Beam Forming of Leaky Waves at Fixed Frequency Using Binary Programmable Metasurface. IEEE Transactions on Antennas and Propagation, 2018, 66, 4942-4947.	3.1	33
22	Low-reflection beam refractions by ultrathin Huygens metasurface. AIP Advances, 2015, 5, .	0.6	23
23	Programmable Metasurface Based on Substrate-Integrated Waveguide for Compact Dynamic-Pattern Antenna. IEEE Transactions on Antennas and Propagation, 2021, 69, 2958-2962.	3.1	21
24	Beamsteering for 5G Mobile Communication Using Programmable Metasurface. IEEE Wireless Communications Letters, 2021, 10, 1542-1546.	3.2	14
25	Space–Time–Frequency Modulation Mechanisms of Monochromatic and Nonmonochromatic Electromagnetic Waves on a Digital Programmable Transmission Metasurface. Advanced Functional Materials, 2022, 32, .	7.8	14
26	TE-mode coplanar imaging using weakly anisotropic metasurface. Optics Express, 2013, 21, 17531.	1.7	13
27	User Tracking and Wireless Digital Transmission through a Programmable Metasurface. Advanced Materials Technologies, 2021, 6, 2001254.	3.0	12
28	High-Precision Direction-of-Arrival Estimations Using Digital Programmable Metasurface. Advanced Intelligent Systems, 2022, 4, .	3.3	12
29	Joint Modulations of Electromagnetic Waves and Digital Signals on a Single Metasurface Platform to Reach Programmable Wireless Communications. Engineering, 2022, 8, 86-95.	3.2	11
30	Dual-channel near-field control by polarizations using isotropic and inhomogeneous metasurface. Scientific Reports, 2015, 5, 15853.	1.6	10
31	A Programmable-Metasurface-Based TDMA Fast Beam Switching Communication System at 28 GHz. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 658-662.	2.4	8
32	Joint Radar and Communication Empowered by Digital Programmable Metasurface. Advanced Intelligent Systems, 2022, 4, .	3.3	4
33	Realization of Efficient Channel Estimation using Programmable Metasurface. , 2021, , .		0