

Xiang

List of Publications by Year in descending order

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33
papers

5,623
citations

304368

22
h-index

414034

32
g-index

33
all docs

33
docs citations

33
times ranked

3082
citing authors

#	ARTICLE	IF	CITATIONS
1	Joint Modulations of Electromagnetic Waves and Digital Signals on a Single Metasurface Platform to Reach Programmable Wireless Communications. <i>Engineering</i> , 2022, 8, 86-95.	3.2	11
2	High-Precision Direction-of-Arrival Estimations Using Digital Programmable Metasurface. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	12
3	Space-Time-Frequency Modulation Mechanisms of Monochromatic and Nonmonochromatic Electromagnetic Waves on a Digital Programmable Transmission Metasurface. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
4	Joint Radar and Communication Empowered by Digital Programmable Metasurface. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	4
5	Programmable Metasurface Based on Substrate-Integrated Waveguide for Compact Dynamic-Pattern Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 2958-2962.	3.1	21
6	Reconfigurable Sum and Difference Beams Based on a Binary Programmable Metasurface. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 381-385.	2.4	50
7	A Programmable-Metasurface-Based TDMA Fast Beam Switching Communication System at 28GHz. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 658-662.	2.4	8
8	User Tracking and Wireless Digital Transmission through a Programmable Metasurface. <i>Advanced Materials Technologies</i> , 2021, 6, 2001254.	3.0	12
9	Single Sensor to Estimate DOA With Programmable Metasurface. <i>IEEE Internet of Things Journal</i> , 2021, 8, 10187-10197.	5.5	57
10	Beamsteering for 5G Mobile Communication Using Programmable Metasurface. <i>IEEE Wireless Communications Letters</i> , 2021, 10, 1542-1546.	3.2	14
11	Realization of Efficient Channel Estimation using Programmable Metasurface. , 2021, , .		0
12	Dynamically Realizing Arbitrary Multi-Bit Programmable Phases Using a 2-Bit Time-Domain Coding Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 2984-2992.	3.1	69
13	Information Metamaterial Systems. <i>IScience</i> , 2020, 23, 101403.	1.9	132
14	Multichannel direct transmissions of near-field information. <i>Light: Science and Applications</i> , 2019, 8, 60.	7.7	83
15	Space-time-coding digital metasurfaces. <i>Nature Communications</i> , 2018, 9, 4334.	5.8	728
16	Beam Forming of Leaky Waves at Fixed Frequency Using Binary Programmable Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 4942-4947.	3.1	33
17	Reconfigurable conversions of reflection, transmission, and polarization states using active metasurface. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	90
18	Electromagnetic reprogrammable coding-metasurface holograms. <i>Nature Communications</i> , 2017, 8, 197.	5.8	747

#	ARTICLE	IF	CITATIONS
19	Broadband metasurface for independent control of reflected amplitude and phase. AIP Advances, 2016, 6, .	0.6	58
20	Convolution Operations on Coding Metasurface to Reach Flexible and Continuous Controls of Terahertz Beams. Advanced Science, 2016, 3, 1600156.	5.6	343
21	Manipulations of Dual Beams with Dual Polarizations by Full-Tensor Metasurfaces. Advanced Optical Materials, 2016, 4, 1567-1572.	3.6	44
22	Transmission-Type 2-Bit Programmable Metasurface for Single-Sensor and Single-Frequency Microwave Imaging. Scientific Reports, 2016, 6, 23731.	1.6	165
23	Field-programmable beam reconfiguring based on digitally-controlled coding metasurface. Scientific Reports, 2016, 6, 20663.	1.6	201
24	Dual-channel near-field control by polarizations using isotropic and inhomogeneous metasurface. Scientific Reports, 2015, 5, 15853.	1.6	10
25	Independent controls of orthogonally polarized transmitted waves using a Huygens metasurface. Laser and Photonics Reviews, 2015, 9, 545-553.	4.4	91
26	Low-reflection beam refractions by ultrathin Huygens metasurface. AIP Advances, 2015, 5, .	0.6	23
27	Coding metamaterials, digital metamaterials and programmable metamaterials. Light: Science and Applications, 2014, 3, e218-e218.	7.7	2,167
28	A broadband transformation-optics metasurface lens. Applied Physics Letters, 2014, 104, 151601.	1.5	132
29	Guiding spoof surface plasmon polaritons by infinitely thin grooved metal strip. AIP Advances, 2014, 4, .	0.6	36
30	Simultaneous controls of surface waves and propagating waves by metasurfaces. Applied Physics Letters, 2014, 105, .	1.5	40
31	Planar bifunctional Luneburg-fisheye lens made of an anisotropic metasurface. Laser and Photonics Reviews, 2014, 8, 757-765.	4.4	108
32	Frequency-Controls of Electromagnetic Multi-Beam Scanning by Metasurfaces. Scientific Reports, 2014, 4, 6921.	1.6	107
33	TE-mode coplanar imaging using weakly anisotropic metasurface. Optics Express, 2013, 21, 17531.	1.7	13