

Wankai Tang

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

2,922
citations

361045

20
h-index

676716

22
g-index

26
all docs

26
docs citations

26
times ranked

1515
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-Polarized RIS-Assisted Mobile Communications. IEEE Transactions on Wireless Communications, 2022, 21, 591-606.	6.1	17
2	Accurate and broadband manipulations of harmonic amplitudes and phases to reach 256 QAM millimeter-wave wireless communications by time-domain digital coding metasurface. National Science Review, 2022, 9, nwab134.	4.6	46
3	Simultaneous <i>in situ</i> Direction Finding and Field Manipulation Based on Space-Time-Coding Digital Metasurface. IEEE Transactions on Antennas and Propagation, 2022, 70, 4774-4783.	3.1	28
4	Reconfigurable Intelligent Surfaces: Simplified-Architecture Transmitters—From Theory to Implementations. Proceedings of the IEEE, 2022, 110, 1266-1289.	16.4	37
5	Modeling and Measurements for Multi-path Mitigation with Reconfigurable Intelligent Surfaces. , 2022, , .		6
6	Linear and Nonlinear Polarization Syntheses and Their Programmable Controls based on Anisotropic Time-Domain Digital Coding Metasurface. Small Structures, 2021, 2, 2000060.	6.9	58
7	Wireless Communications With Reconfigurable Intelligent Surface: Path Loss Modeling and Experimental Measurement. IEEE Transactions on Wireless Communications, 2021, 20, 421-439.	6.1	685
8	Design and Implementation of MIMO Transmission Based on Dual-Polarized Reconfigurable Intelligent Surface. IEEE Wireless Communications Letters, 2021, 10, 2155-2159.	3.2	29
9	A wireless communication scheme based on space- and frequency-division multiplexing using digital metasurfaces. Nature Electronics, 2021, 4, 218-227.	13.1	224
10	Wireless Communication Based on Information Metasurfaces. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1493-1510.	2.9	77
11	Interplay Between RIS and AI in Wireless Communications: Fundamentals, Architectures, Applications, and Open Research Problems. IEEE Journal on Selected Areas in Communications, 2021, 39, 2271-2288.	9.7	25
12	On Channel Reciprocity in Reconfigurable Intelligent Surface Assisted Wireless Networks. IEEE Wireless Communications, 2021, 28, 94-101.	6.6	41
13	Realization of Multi-Modulation Schemes for Wireless Communication by Time-Domain Digital Coding Metasurface. IEEE Transactions on Antennas and Propagation, 2020, 68, 1618-1627.	3.1	105
14	Arbitrary manipulations of dual harmonics and their wave behaviors based on space-time-coding digital metasurface. Applied Physics Reviews, 2020, 7, .	5.5	36
15	Design and Implementation of MIMO Transmission through Reconfigurable Intelligent Surface. , 2020, , .		9
16	High-Efficiency Synthesizer for Spatial Waves Based on Space-Time-Coding Digital Metasurface. Laser and Photonics Reviews, 2020, 14, 1900133.	4.4	63
17	Angle-Dependent Phase Shifter Model for Reconfigurable Intelligent Surfaces: Does the Angle-Reciprocity Hold?. IEEE Communications Letters, 2020, 24, 2060-2064.	2.5	35
18	Wireless Communications with Programmable Metasurface: New Paradigms, Opportunities, and Challenges on Transceiver Design. IEEE Wireless Communications, 2020, 27, 180-187.	6.6	183

#	ARTICLE	IF	CITATIONS
19	MIMO Transmission Through Reconfigurable Intelligent Surface: System Design, Analysis, and Implementation. IEEE Journal on Selected Areas in Communications, 2020, 38, 2683-2699.	9.7	242
20	Realization of Reconfigurable Intelligent Surface-Based Alamouti Space-Time Transmission. , 2020, , .		11
21	Large Intelligent Surface-Assisted Wireless Communication Exploiting Statistical CSI. IEEE Transactions on Vehicular Technology, 2019, 68, 8238-8242.	3.9	537
22	Programmable metasurface-based RF chain-free 8PSK wireless transmitter. Electronics Letters, 2019, 55, 417-420.	0.5	121
23	The Future of Wireless?. Electronics Letters, 2019, 55, 360-361.	0.5	15
24	Wireless Communications through a Simplified Architecture Based on Time-Domain Digital Coding Metasurface. Advanced Materials Technologies, 2019, 4, 1900044.	3.0	134
25	Wireless communications with programmable metasurface: Transceiver design and experimental results. China Communications, 2019, 16, 46-61.	2.0	158