Reconfigurable Intelligent Surfaces: Principles and Opp

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Citation Report

#	Article	IF	CITATIONS
1	Intelligent Reflecting Surface-Aided Indoor Visible Light Communication Systems. IEEE Communications Letters, 2021, 25, 3913-3917.	4.1	45
2	Reconfigurable Intelligent Surface Assisted Cooperative Non-Orthogonal Multiple Access Systems. IEEE Transactions on Communications, 2021, 69, 6750-6764.	7.8	16
3	Ultra-Reliable Indoor Millimeter Wave Communications Using Multiple Artificial Intelligence-Powered Intelligent Surfaces. IEEE Transactions on Communications, 2021, 69, 7444-7457.	7.8	2
4	Capacity Characterization of Intelligent Reflecting Surface Assisted NOMA Systems. , 2021, , .		1
5	Achievable Rate Maximization for Intelligent Reflecting Surface-Assisted Orbital Angular Momentum-Based Communication Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 7277-7282.	6.3	8
6	Coverage Characterization of STAR-RIS Networks: NOMA and OMA. IEEE Communications Letters, 2021, 25, 3036-3040.	4.1	104
7	STAR-RISs: Simultaneous Transmitting and Reflecting Reconfigurable Intelligent Surfaces. IEEE Communications Letters, 2021, 25, 3134-3138.	4.1	160
8	Intelligent Reflecting Surface Enhanced Multi-UAV NOMA Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 3051-3066.	14.0	95
9	Non-Orthogonal Multiple Access (NOMA) With Multiple Intelligent Reflecting Surfaces. IEEE Transactions on Wireless Communications, 2021, 20, 7184-7195.	9.2	34
10	Covert Communication in Intelligent Reflecting Surface-Assisted NOMA Systems: Design, Analysis, and Optimization. IEEE Transactions on Wireless Communications, 2022, 21, 1735-1750.	9.2	79
11	A Novel Physics-Based Channel Model for Reconfigurable Intelligent Surface-Assisted Multi-User Communication Systems. IEEE Transactions on Wireless Communications, 2022, 21, 1183-1196.	9.2	13
12	Performance Analysis of Intelligent Reflecting Surface Assisted NOMA Networks. IEEE Transactions on Wireless Communications, 2022, 21, 2623-2636.	9.2	72
13	Simultaneously Transmitting and Reflecting (STAR) RIS Aided Wireless Communications. IEEE Transactions on Wireless Communications, 2022, 21, 3083-3098.	9.2	197
14	A Novel Pilot Spoofing Scheme via Intelligent Reflecting Surface Based on Statistical CSI. IEEE Transactions on Vehicular Technology, 2021, 70, 12847-12857.	6.3	7
15	Performance Analysis of RIS-Assisted FSO Communications over Fisher–Snedecor F Turbulence Channels. Applied Sciences (Switzerland), 2021, 11, 10149.	2.5	9
16	Reconfigurable Intelligent Surfaces in Challenging Environments: Underwater, Underground, Industrial and Disaster. IEEE Access, 2021, 9, 150214-150233.	4.2	24
17	Joint Transmit Precoding and Reflect Beamforming Design for IRS-Assisted MIMO Cognitive Radio Systems. IEEE Transactions on Wireless Communications, 2022, 21, 3617-3631.	9.2	18
18	Al Empowered RIS-Assisted NOMA Networks: Deep Learning or Reinforcement Learning?. IEEE Journal on Selected Areas in Communications, 2022, 40, 182-196.	14.0	36

#	Article	IF	CITATIONS
19	Nghiên cá» ©u kỹ thuáºt Äʻiá» u chế sóng mang nghá» «ch lưu má» ™t pha cascaded 5 báºc., 2021,, 36-45.		О
20	Low-Latency and Secure Computation Offloading Assisted by Hybrid Relay-Reflecting Intelligent Surface., 2021,,.		9
21	Machine Learning in Beyond 5G/6G Networks—State-of-the-Art and Future Trends. Electronics (Switzerland), 2021, 10, 2786.	3.1	50
22	On Maximizing the Sum Secret Key Rate for Reconfigurable Intelligent Surface-Assisted Multiuser Systems. IEEE Transactions on Information Forensics and Security, 2022, 17, 211-225.	6.9	28
23	Intelligent Reflecting Surface and Artificial-Noise-Assisted Secure Transmission of MEC System. IEEE Internet of Things Journal, 2022, 9, 11477-11488.	8.7	14
24	A Joint Design for STAR-RIS Enhanced NOMA-CoMP Networks: A Simultaneous-Signal-Enhancement-and-Cancellation-Based (SSECB) Design. IEEE Transactions on Vehicular Technology, 2022, 71, 1043-1048.	6.3	29
25	Channel Estimation for STAR-RIS-Aided Wireless Communication. IEEE Communications Letters, 2022, 26, 652-656.	4.1	50
26	Intelligent Reflecting Surface-Assisted Bistatic Backscatter Networks: Joint Beamforming and Reflection Design. IEEE Transactions on Green Communications and Networking, 2022, 6, 799-814.	5.5	11
27	Weighted Sum Rate Optimization for STAR-RIS-Assisted MIMO System. IEEE Transactions on Vehicular Technology, 2022, 71, 2122-2127.	6.3	38
28	Federated Learning in Multi-RIS-Aided Systems. IEEE Internet of Things Journal, 2022, 9, 9608-9624.	8.7	45
29	Performance of Large Intelligent Surface-enabled Cooperative Networks Over Nakagami-m Channels. , 2021, , .		6
30	A Generalized Neural Network-based Optimization for Multiple IRSs-aided Communication System. , 2021, , .		3
31	Adding Active Elements to Reconfigurable Intelligent Surfaces to Enhance Energy Harvesting for IoT Devices., 2021,,.		3
32	Evolution of NOMA Toward Next Generation Multiple Access (NGMA) for 6G. IEEE Journal on Selected Areas in Communications, 2022, 40, 1037-1071.	14.0	168
33	Resource Allocation for IRS Assisted SGF NOMA Transmission: A MADRL Approach. IEEE Journal on Selected Areas in Communications, 2022, 40, 1302-1316.	14.0	20
34	Reconfigurable Intelligent Surface Aided Cellular Networks With Device-to-Device Users. IEEE Transactions on Communications, 2022, 70, 1808-1819.	7.8	12
35	Graph-Embedded Multi-Agent Learning for Smart Reconfigurable THz MIMO-NOMA Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 259-275.	14.0	20
36	Mobility-Aware User Association Strategy for IRS-Aided mm-Wave Multibeam Transmission Towards 6G. IEEE Journal on Selected Areas in Communications, 2022, 40, 1667-1678.	14.0	16

#	Article	IF	Citations
37	Triple-Structured Sparsity-Based Channel Feedback for RIS-Assisted MU-MIMO System. IEEE Communications Letters, 2022, 26, 1141-1145.	4.1	6
38	Reconfigurable Intelligent Surfaces With Outdated Channel State Information: Centralized vs. Distributed Deployments. IEEE Transactions on Communications, 2022, 70, 2742-2756.	7.8	32
39	RIS-Aided Ground-Aerial NOMA Communications: A Distributionally Robust DRL Approach. IEEE Journal on Selected Areas in Communications, 2022, 40, 1287-1301.	14.0	23
40	HDMA: Holographic-Pattern Division Multiple Access. IEEE Journal on Selected Areas in Communications, 2022, 40, 1317-1332.	14.0	15
41	Energy Efficient Resource Allocation for IRS Assisted CoMP Systems. IEEE Transactions on Wireless Communications, 2022, 21, 5688-5702.	9.2	15
42	Copula-Based Modeling of RIS-Assisted Communications: Outage Probability Analysis. IEEE Communications Letters, 2022, 26, 1524-1528.	4.1	3
43	Joint Training of the Superimposed Direct and Reflected Links in Reconfigurable Intelligent Surface Assisted Multiuser Communications. IEEE Transactions on Green Communications and Networking, 2022, 6, 739-754.	5 . 5	19
44	Energy Minimization for Intelligent Reflecting Surface-Assisted Mobile Edge Computing. IEEE Transactions on Wireless Communications, 2022, 21, 6329-6344.	9.2	20
45	Effective capacity analysis of reconfigurable intelligent surfaces aided NOMA network. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	2.4	11
46	An IRS-Aided GSSK Scheme for Wireless Communication System. IEEE Communications Letters, 2022, 26, 1398-1402.	4.1	9
47	Modulating Intelligent Surfaces for Multiuser MIMO Systems: Beamforming and Modulation Design. IEEE Transactions on Communications, 2022, 70, 3234-3249.	7.8	4
48	Reconfigurable Intelligent Surfaces Relying on Non-Diagonal Phase Shift Matrices. IEEE Transactions on Vehicular Technology, 2022, 71, 6367-6383.	6.3	19
49	Weighted Sum-Rate Maximization for STAR-RISs-Aided Networks With Coupled Phase-Shifters. IEEE Systems Journal, 2023, 17, 1083-1086.	4.6	7
50	Secure Active and Passive Beamforming in IRS-Aided MIMO Systems. IEEE Transactions on Information Forensics and Security, 2022, 17, 1300-1315.	6.9	14
51	Intelligent metaphotonics empowered by machine learning. Opto-Electronic Advances, 2022, 5, 210147-210147.	13.3	82
52	Foundations of MIMO Radar Detection Aided by Reconfigurable Intelligent Surfaces. IEEE Transactions on Signal Processing, 2022, 70, 1749-1763.	5. 3	58
53	Achievable Rate Analysis of Two-Hop Interference Channel With Coordinated IRS Relay. IEEE Transactions on Wireless Communications, 2022, 21, 7055-7071.	9.2	12
54	BIOS: An Omni RIS for Independent Reflection and Refraction Beamforming. IEEE Wireless Communications Letters, 2022, 11, 1062-1066.	5.0	4

#	ARTICLE	IF	CITATIONS
55	Resource Allocation in STAR-RIS-Aided Networks: OMA and NOMA. IEEE Transactions on Wireless Communications, 2022, 21, 7653-7667.	9.2	39
56	Evaluation of Reconfigurable Intelligent Surface-Assisted Underwater Wireless Optical Communication System. Journal of Lightwave Technology, 2022, 40, 4257-4267.	4.6	21
57	Machine Learning Approaches for Reconfigurable Intelligent Surfaces: A Survey. IEEE Access, 2022, 10, 27343-27367.	4.2	20
58	IRS Empowered UAV Wireless Communication With Resource Allocation, Reflecting Design and Trajectory Optimization. IEEE Transactions on Wireless Communications, 2022, 21, 7867-7880.	9.2	13
59	A Survey on Channel Estimation and Practical Passive Beamforming Design for Intelligent Reflecting Surface Aided Wireless Communications. IEEE Communications Surveys and Tutorials, 2022, 24, 1035-1071.	39.4	152
60	Optimal Placement of Reconfigurable Intelligent Surfaces for Spectrum Coexistence With Radars. IEEE Transactions on Vehicular Technology, 2022, 71, 6574-6585.	6.3	5
61	Socially Aware V2X Networks With RIS: Joint Resource Optimization. IEEE Transactions on Vehicular Technology, 2022, 71, 6732-6737.	6.3	9
62	Anti-Jamming RIS Communications Using DQN-Based Algorithm. IEEE Access, 2022, 10, 28422-28433.	4.2	11
63	Performance of Reconfigurable Intelligent Surfaces vs. Relaying for UAV-Assisted Communications. , 2021, , .		4
64	Meta-learning for RIS-assisted NOMA Networks. , 2021, , .		3
65	Simultaneously Transmitting and Reflecting Intelligent Omni-Surfaces: Modeling and Implementation. IEEE Vehicular Technology Magazine, 2022, 17, 46-54.	3.4	28
66	Backscatter Communication Assisted by Reconfigurable Intelligent Surfaces. Proceedings of the IEEE, 2022, 110, 1339-1357.	21.3	25
67	Joint Beamforming Optimization for RIS-Aided Full-Duplex Communication. IEEE Wireless Communications Letters, 2022, 11, 1629-1633.	5.0	9
68	Downlink Multi-RIS Aided Transmission in Backhaul Limited Networks. IEEE Wireless Communications Letters, 2022, 11, 1458-1462.	5.0	8
70	Wave-Controlled Metasurface-Based Reconfigurable Intelligent Surfaces. IEEE Wireless Communications, 2022, 29, 86-92.	9.0	2
71	RIS-Focus: On the Optimal Placement of the Focal Plane for Outdoor Beam Routing. IEEE Access, 2022, 10, 53053-53065.	4.2	4
72	Nonterrestrial Communications Assisted by Reconfigurable Intelligent Surfaces. Proceedings of the IEEE, 2022, 110, 1423-1465.	21.3	30
73	Intelligent Reflecting Surface-Aided Wireless Networks: From Single-Reflection to Multireflection Design and Optimization. Proceedings of the IEEE, 2022, 110, 1380-1400.	21.3	47

#	Article	IF	Citations
74	Exploiting Reconfigurable Intelligent Surfaces in MIMO Radar Detection., 2022,,.		2
75	Enabling URLLC Applications Through Reconfigurable Intelligent Surfaces: Challenges and Potential. IEEE Internet of Things Magazine, 2022, 5, 130-135.	2.6	5
76	Optimal Power Allocation and Cooperative Relaying under Fuzzy Inference System (FIS) Based Downlink PD-NOMA. Electronics (Switzerland), 2022, 11, 1338.	3.1	1
77	RIS-Aided Monostatic Mimo Radar with Co-Located Antennas. , 2022, , .		1
78	STAR-RISs: A Correlated T&R Phase-Shift Model and Practical Phase-Shift Configuration Strategies. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 1097-1111.	10.8	32
79	Distributed and Scalable Uplink Processing for LIS: Algorithm, Architecture, and Design Trade-Offs. IEEE Transactions on Signal Processing, 2022, 70, 2639-2653.	5.3	5
80	Toward Ubiquitous Sensing and Localization With Reconfigurable Intelligent Surfaces. Proceedings of the IEEE, 2022, 110, 1401-1422.	21.3	33
81	A 3D Wideband Channel Model for RIS-Assisted MIMO Communications. IEEE Transactions on Vehicular Technology, 2022, 71, 8016-8029.	6.3	15
82	Spatial Diversity in Radar Detection via Active Reconfigurable Intelligent Surfaces. IEEE Signal Processing Letters, 2022, 29, 1242-1246.	3.6	14
83	IRS-Assisted Proactive Eavesdropping Over Fading Channels Based on Deep Reinforcement Learning. IEEE Communications Letters, 2022, 26, 1730-1734.	4.1	5
84	Toward Ubiquitous and Flexible Coverage of UAV-IRS-Assisted NOMA Networks. , 2022, , .		7
85	Finite-block length transmissions for RIS-assisted communication system with spatial correlation. , 2022, , .		2
86	Performance Analysis for the Coupled Phase-Shift STAR-RISs. , 2022, , .		4
87	Blockage-Aware Beamforming Design for Active IRS-Aided mmWave Communication Systems. , 2022, , .		5
88	Computation Rate Maximization for IRS-Aided Wireless Powered MEC Systems., 2022,,.		6
89	Weighted Sum-Rate Outage Probability Constrained Transmission Design for IRS-Enhanced Communication., 2022,,.		2
90	Maximizing the Number of Served Users in a Smart City using Reconfigurable Intelligent Surfaces. , 2022, , .		2
91	Artificial Rich Scattering-Assisted MIMO Systems Using Passive Backscatter Devices. , 2022, , .		1

#	Article	IF	CITATIONS
92	Performance analysis of RIS aided NOMA networks with hardware impairments. IET Communications, 2022, 16, 1606-1616.	2.2	6
93	Computation Capacity Enhancement by Joint UAV and RIS Design in IoT. IEEE Internet of Things Journal, 2022, 9, 20590-20603.	8.7	15
94	Intelligent Reflecting Surface-Assisted Interference Mitigation With Deep Reinforcement Learning for Radio Astronomy. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 1757-1761.	4.0	3
95	Evolution of Wireless Communication to 6G: Potential Applications and Research Directions. Sustainability, 2022, 14, 6356.	3.2	21
96	Latency minimization for IRS-assisted mobile edge computing networks. Physical Communication, 2022, 53, 101768.	2.1	1
97	Modified Block Coordinate Descent Method for Intelligent Reflecting Surface-Aided Space-Time Line Coded Systems. IEEE Wireless Communications Letters, 2022, 11, 1820-1824.	5.0	3
98	Localization Through Transceivers in Unknown Constant Velocity Trajectories. IEEE Transactions on Signal Processing, 2022, 70, 3011-3028.	5.3	3
99	Aerial Intelligent Reflecting Surfaces in MIMO-NOMA Networks: Fundamentals, Potential Achievements, and Challenges. IEEE Open Journal of the Communications Society, 2022, 3, 1007-1024.	6.9	7
100	RIS Assisted Triple-Hop RF-FSO Convergent With UWOC System. IEEE Access, 2022, 10, 66564-66575.	4.2	12
101	Towards a Unified Framework for Physical Layer Security in 5G and Beyond Networks. IEEE Open Journal of Vehicular Technology, 2022, 3, 321-343.	4.9	10
102	Design of Intelligent Reflecting Surface (IRS)-Boosted Ambient Backscatter Systems. IEEE Access, 2022, 10, 65000-65010.	4.2	7
103	Mixed RIS-Based RF-FSO Systems over DGG Turbulence and EGK Fading Channels. , 2022, , .		0
104	Broadband and Programmable Amplitude-Phase-Joint-Coding Information Metasurface. ACS Applied Materials & Samp; Interfaces, 2022, 14, 29431-29440.	8.0	26
105	STAR-RIS Aided NOMA in Multicell Networks: A General Analytical Framework With Gamma Distributed Channel Modeling. IEEE Transactions on Communications, 2022, 70, 5629-5644.	7.8	19
106	Joint Uplink-Downlink Resource Allocation for Multi-User IRS-Assisted Systems. IEEE Transactions on Wireless Communications, 2022, , 1-1.	9.2	0
107	STAR-RIS Integrated Nonorthogonal Multiple Access and Over-the-Air Federated Learning: Framework, Analysis, and Optimization. IEEE Internet of Things Journal, 2022, 9, 17136-17156.	8.7	26
108	Reconfigurable Intelligent Surfaces: Channel Characterization and Modeling. Proceedings of the IEEE, 2022, 110, 1290-1311.	21.3	32
109	Macromodeling of Reconfigurable Intelligent Surface Based on Microwave Network Theory. IEEE Transactions on Antennas and Propagation, 2022, 70, 8707-8717.	5.1	11

#	Article	IF	CITATIONS
110	Balancing Accuracy and Integrity for Reconfigurable Intelligent Surface-Aided Over-the-Air Federated Learning. IEEE Transactions on Wireless Communications, 2022, 21, 10964-10980.	9.2	12
111	Fast Beam Splitting Technique for STAR-RISs with Coupled T&R Phase Shifts., 2022,,.		1
112	Centralized and Distributed Reconfigurable Intelligent Surfaces Assisted NOMA. , 2022, , .		1
113	On RIS-Assisted Random Access Systems with Successive Interference Cancellation. , 2022, , .		1
114	Energy-Efficient Design for RIS-assisted UAV communications in beyond-5G Networks. , 2022, , .		3
115	On the Impacts of Phase Shifting Design and Eavesdropping Uncertainty on Secrecy Metrics of RIS-aided Systems., 2022,,.		1
116	Designs of planar pattern manipulation surfaces using patch resonating elements loading with dualâ€polarized slots for multiâ€user systems. International Journal of RF and Microwave Computer-Aided Engineering, 0, , .	1.2	0
117	Capacity Maximization for Reconfigurable Intelligent Surface-Aided MISO Visible Light Communications. Photonics, 2022, 9, 487.	2.0	7
118	Simultaneous lightwave information and power transfer in optical wireless communication networks: An overview and outlook. Optik, 2022, 266, 169590.	2.9	10
119	Joint Power and Reflecting Elements Optimization for Intelligent Reflecting Surface Assisted NOMA. , 2022, , .		1
120	Conformal Intelligent Reflecting Surfaces for 6G V2V Communications. , 2022, , .		3
121	Characteristics of Channel Eigenvalues and Mutual Coupling Effects for Holographic Reconfigurable Intelligent Surfaces. Sensors, 2022, 22, 5297.	3.8	3
122	Efficient Propagation Modeling for Communication Channels With Reconfigurable Intelligent Surfaces. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 2120-2124.	4.0	11
123	Low-Resolution RIS-Aided Multiuser MIMO Signaling. IEEE Transactions on Communications, 2022, 70, 6517-6531.	7.8	5
124	Simultaneously Transmitting and Reflecting Reconfigurable Intelligent Surface Assisted NOMA Networks. IEEE Transactions on Wireless Communications, 2023, 22, 189-204.	9.2	37
125	Joint Design for Simultaneously Transmitting and Reflecting (STAR) RIS Assisted NOMA Systems. IEEE Transactions on Wireless Communications, 2023, 22, 611-626.	9.2	37
126	RIS-Assisted Receive Quadrature Space-Shift Keying: A New Paradigm and Performance Analysis. IEEE Transactions on Communications, 2022, 70, 6874-6889.	7.8	8
127	Energy-Efficiency Maximization of Multiple RISs-Enabled Communication Networks by Deep Reinforcement Learning., 2022,,.		3

#	Article	IF	CITATIONS
128	Simultaneously Transmitting and Reflecting (STAR)-RISs: A Coupled Phase-Shift Model. , 2022, , .		24
129	IRShield: A Countermeasure Against Adversarial Physical-Layer Wireless Sensing. , 2022, , .		14
130	Integrated Passive Reconfigurable Intelligent Surface and Active Relay Assisted NOMA Systems. , 2022, , .		2
131	Canonical Training is Bad for Reconfigurable Intelligent Surfaces. , 2022, , .		2
132	Controller Manipulation Attack on Reconfigurable Intelligent Surface Aided Wireless Communication. , 2022, , .		3
133	When RIS Meets GEO Satellite Communications: A New Sustainable Optimization Framework in 6G., 2022, , .		16
134	Active Reconfigurable MIMO Communications: Capacity Maximization Pattern Design. , 2022, , .		2
135	Performance Analysis of IRS-assisted Backscatter Communications Under Hardware Imperfections., 2022,,.		0
136	Machine Learning for Intelligent-Reflecting-Surface-Based Wireless Communication towards 6G: A Review. Sensors, 2022, 22, 5405.	3.8	37
137	Demod-CNN: A Robust Deep Learning Approach for Intelligent Reflecting Surface-Assisted Multiuser MIMO Communication. Sensors, 2022, 22, 5971.	3.8	6
138	Performance analysis and parameter optimization for intelligent reflecting mirror array-aided visible light communications. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2022, 39, 1839.	1.5	4
139	Enhanced IoT Batteryless D2D Communications Using Reconfigurable Intelligent Surfaces., 2022,,.		0
140	Recent Progress in Reconfigurable and Intelligent Metasurfaces: A Comprehensive Review of Tuning Mechanisms, Hardware Designs, and Applications. Advanced Science, 2022, 9, .	11.2	29
141	Joint Beamforming and Trajectory Design for Aerial Intelligent Reflecting Surface-Aided Secure Transmission. Electronics (Switzerland), 2022, 11, 2802.	3.1	0
142	Secure UAV-Aided Mobile Edge Computing for IoT: A Review. IEEE Access, 2022, 10, 86353-86383.	4.2	16
143	Ergodic Rate Analysis and Phase Design of STAR-RIS Aided NOMA With Statistical CSI. IEEE Communications Letters, 2022, 26, 2889-2893.	4.1	9
144	Digital Twin-Driven Vehicular Task Offloading and IRS Configuration in the Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 24290-24304.	8.0	19
145	Channel Aging-Aware Precoding for RIS-Aided Multi-User Communications. IEEE Transactions on Vehicular Technology, 2023, 72, 1997-2008.	6.3	2

#	Article	IF	CITATIONS
146	Antenna Selection for IRS-Aided MU-MIMO. IEEE Communications Letters, 2022, 26, 2690-2694.	4.1	1
147	Exploiting Reconfigurable Intelligent Surface-Based Uplink/Downlink Wireless Systems. IEEE Access, 2022, 10, 91059-91072.	4.2	6
148	Rate-Splitting Multiple Access With STAR RIS Over Spatially-Correlated Channels. IEEE Transactions on Communications, 2022, 70, 6410-6424.	7.8	16
149	Tracking Everyone and Everything in Smart Cities with an ANN Driven Smart Antenna. Advances in Science, Technology and Innovation, 2022, , 75-94.	0.4	2
150	Active IRS Aided Multiple Access for Energy-Constrained IoT Systems. IEEE Transactions on Wireless Communications, 2023, 22, 1677-1694.	9.2	21
151	Infinite and Finite Block-Length FD Transmissions With Spatially-Correlated RIS Channels. IEEE Transactions on Wireless Communications, 2023, 22, 1060-1071.	9.2	0
152	Intelligent Omni-Surfaces: Simultaneous Refraction and Reflection for Full-Dimensional Wireless Communications. IEEE Communications Surveys and Tutorials, 2022, 24, 1997-2028.	39.4	21
153	On the Enabling of Multi-Receiver Communications With Reconfigurable Intelligent Surfaces. IEEE Nanotechnology Magazine, 2022, 21, 413-423.	2.0	7
154	Performance Analysis of Reconfigurable Intelligent Surface Assisted Two-Way NOMA Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 13091-13104.	6.3	10
155	RIS-Assisted Full-Duplex Relay Systems. IEEE Systems Journal, 2022, 16, 5729-5740.	4.6	17
156	Triple-Structured Compressive Sensing-Based Channel Estimation for RIS-Aided MU-MIMO Systems. IEEE Transactions on Wireless Communications, 2022, 21, 11095-11109.	9.2	5
157	Joint Beamforming Design for Secure RIS-Assisted IoT Networks. IEEE Internet of Things Journal, 2023, 10, 1628-1641.	8.7	34
158	Feasibility of a Plasma-Based Intelligent Reflective Surface. IEEE Access, 2022, 10, 97995-98003.	4.2	8
159	Joint Beamforming Design for Intelligent Omni Surface Assisted Wireless Communication Systems. IEEE Transactions on Wireless Communications, 2023, 22, 1281-1297.	9.2	4
160	6G Cloud-Native System: Vision, Challenges, Architecture Framework and Enabling Technologies. IEEE Access, 2022, 10, 96602-96625.	4.2	6
161	Joint Active and Passive Beamforming Design for IRS-Aided Radar-Communication. IEEE Transactions on Wireless Communications, 2023, 22, 2278-2294.	9.2	18
162	Analysis of Reconfigurable Intelligent Surface-Aided Wireless Communication: Potential Schemes, Standard Impact and Practical Challenges. , 2022, , .		0
163	An Overview of Signal Processing Techniques for RIS/IRS-Aided Wireless Systems. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 883-917.	10.8	113

#	Article	IF	CITATIONS
164	Reconfigurable Intelligent Surface Assisted Non-Terrestrial NOMA Networks. Wireless Communications and Mobile Computing, 2022, 2022, 1-13.	1.2	2
165	Construction of a Random Matrix Model of Curriculum System Based on Digital Technology in the Context of Smart Education. Mathematical Problems in Engineering, 2022, 2022, 1-11.	1.1	1
166	Boosting NOMA systems through smart metasurfaces. Frontiers in Communications and Networks, 0, 3, .	3.0	1
167	Secrecy Energy Efficiency Optimization for Reconfigurable Intelligent Surface-Aided Multiuser MISO Systems. Wireless Communications and Mobile Computing, 2022, 2022, 1-11.	1.2	0
168	Swarm of UAVs for Network Management in 6G: A Technical Review. IEEE Transactions on Network and Service Management, 2023, 20, 741-761.	4.9	46
169	Reconfigurable Intelligent Surface Assisted OFDM Relaying: Subcarrier Matching With Balanced SNR. IEEE Transactions on Vehicular Technology, 2023, 72, 2216-2230.	6.3	2
170	IRS-driven Cybersecurity of Healthcare Cyber Physical Systems. IEEE Transactions on Network Science and Engineering, 2022, , 1-10.	6.4	2
171	An Overview of Intelligent Reflecting Surface Assisted UAV Communication Systems. Unmanned System Technologies, 2023, , 67-94.	1.0	4
172	Intelligent Reflecting Surface Aided Network under Interference toward 6G Applications. IEEE Network, 2022, 36, 18-27.	6.9	5
173	6G toward Metaverse: Technologies, Applications, and Challenges. , 2022, , .		10
174	Energy Efficient Maximization of User Association Employing IRS in mmWave Multi-Tier 6G Networks. , 2022, , .		1
175	A Polarizationâ€Modulated Information Metasurface for Encryption Wireless Communications. Advanced Science, 2022, 9, .	11.2	22
176	An efficient computation offloading and resource allocation algorithm in RIS empowered MEC. Computer Communications, 2023, 197, 113-123.	5.1	9
177	Conformal Metasurfaces: A Novel Solution for Vehicular Communications. IEEE Transactions on Wireless Communications, 2023, 22, 2804-2817.	9.2	5
178	Reconfigurable Intelligent Surface for Near Field Communications: Beamforming and Sensing. IEEE Transactions on Wireless Communications, 2023, 22, 3447-3459.	9.2	7
179	Pricing for Reconfigurable Intelligent Surface Aided Wireless Networks: Models and Principles. IEEE Network, 2023, 37, 102-110.	6.9	1
180	Design of Intelligence Reflector Metasurface Using Deep Learning Neural Network for 6G Adaptive Beamforming. IEEE Access, 2022, 10, 117900-117913.	4.2	3
181	HermesPy: An Open-Source Link-Level Evaluator for 6G. IEEE Access, 2022, 10, 120256-120273.	4.2	2

#	Article	IF	CITATIONS
182	Location Sensing and Beamforming Design for IRS-Enabled Multi-User ISAC Systems. IEEE Transactions on Signal Processing, 2022, 70, 5178-5193.	5.3	30
183	Residual Transceiver Hardware Impairment and Imperfect Interference Cancellation With Two Way-enabled RIS Systems. , 2022, , .		2
184	Robust beamforming for IRS-aided SWIPT in cognitive radio networks. Digital Communications and Networks, 2022, , .	5.0	1
185	Coverage Enhancement in Millimeter-Wave Cellular Networks via Distributed IRSs. IEEE Transactions on Communications, 2023, 71, 1153-1167.	7.8	2
186	Performance Analysis of RIS Assisted NOMA Networks over Rician Fading Channels. CMES - Computer Modeling in Engineering and Sciences, 2023, 135, 2531-2555.	1.1	0
187	A Deep Neural Network-based Communication Failure Prediction Scheme in 5G RAN. IEEE Transactions on Network and Service Management, 2022, , 1-1.	4.9	0
188	RIS-Assisted FD Short Packet Communication With Non-Linear EH. IEEE Communications Letters, 2023, 27, 522-526.	4.1	5
189	Impact of the Refractive Index on the Achievable Rate of Liquid Crystal-Based Digital-RIS Indoor VLC Systems. IEEE Photonics Journal, 2023, 15, 1-6.	2.0	0
190	RIS-Aided LDM System: A New Prototype in Broadcasting System. IEEE Transactions on Broadcasting, 2023, 69, 224-235.	3.2	1
191	Resource Scheduling for Intelligent Reflecting Surface-Assisted Full-Duplex Wireless-Powered Communication Networks With Phase Errors. IEEE Internet of Things Journal, 2023, 10, 6018-6030.	8.7	7
192	Reconfigurable Intelligent Surface Aided High-Mobility Millimeter Wave Communications With Dynamic Dual-Structured Sparsity. IEEE Transactions on Wireless Communications, 2023, 22, 4580-4599.	9.2	6
193	Link Budget Analysis for Backscatter-Based Passive IoT. IEEE Access, 2022, 10, 128890-128922.	4.2	15
194	Reconfigurable Intelligent Surfaces: A Physical Layer Security Perspective., 2022,,.		1
195	Wireless Power Transfer Aided with Reconfigurable Intelligent Surfaces: Design, and Coverage Analysis., 2022,,.		0
196	IoT Connectivity Optimization in RIS-Assisted Full-Duplex Massive MIMO Networks., 2022,,.		1
197	Reconfigurable Intelligent Surface-assisted System Models for Uplink Communications. , 2022, , .		2
198	Channel Modeling and Outage Performance of Cascaded RIS-empowered Wireless Networks., 2022,,.		1
199	Potential Security Concerns at the Physical Layer of 6G Cellular Systems. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
201	Discrete Phase Shifts of Intelligent Reflecting Surface Systems Considering Network Overhead. Entropy, 2022, 24, 1753.	2.2	3
202	Wideband Lorenz Resonance Reconfigurable Metasurface for 5G+ Communications. Electronics (Switzerland), 2022, 11, 4105.	3.1	1
203	A Codeword-Independent Localization Technique for Reconfigurable Intelligent Surface Enhanced Environments Using Adversarial Learning. Sensors, 2023, 23, 984.	3.8	0
204	Channel Training & Channel Train	4.2	2
205	STARS Enabled Integrated Sensing and Communications: A CRB optimization Perspective. , 2022, , .		1
206	Unsupervised Learning-Aided Discrete RIS Configuration Estimator. , 2022, , .		0
207	On the Ergodic Capacity of Reconfigurable Intelligent Surface (RIS)-Aided MIMO Channels. , 2022, , .		1
208	Stability-Oriented STAR-RIS Aided MISO-NOMA Communication Systems. , 2022, , .		0
209	An RIS-NOMA-enhanced Signal-Cancellation Design for Multi-Cell Networks. , 2022, , .		1
210	Performance Evaluation of RIS-aided Multicell 5G and Beyond Wireless Cellular Communication Network., 2022,,.		2
211	Improved Rate of Secret Key Generation Using Passive Re-Configurable Intelligent Surfaces for Vehicular Networks. Sustainability, 2023, 15, 342.	3.2	2
212	Global Navigation Satellite System (GNSS): A Reconfigurable Intelligent Surface (RIS)-aided Approach. , 2022, , .		0
213	DRL-based Energy Efficient Resource Allocation for STAR-RIS Assisted Coordinated Multi-cell Networks. , 2022, , .		2
214	Multi-Hop Beam Routing for Hybrid Active/Passive IRS Aided Wireless Communications. , 2022, , .		3
215	Computation Rate Optimization for STAR-RIS-Enhanced Wireless-Powered MEC., 2022,,.		1
216	Optimal Mobile IRS Deployment with Reinforcement Learning Encoder Decoders. , 2022, , .		2
217	Energy Efficiency Optimization for RIS-Assisted UAV-Enabled MEC Systems. , 2022, , .		3
218	Beyond-Cell Communications via HAPS-RIS., 2022,,.		3

#	Article	IF	CITATIONS
219	Conformal Metasurfaces for Recovering Dynamic Blockage in Vehicular Systems., 2022,,.		0
220	Spectrum Efficiency Design for Intelligent Reflecting Surface-Aided IoT Systems. , 2022, , .		2
221	A Brief Review and Comparison Between Transmitarray Antennas, Reflectarray Antennas and Reconfigurable Intelligent Surfaces. , 2022, , .		2
222	Channel Orthogonalization with Reconfigurable Surfaces. , 2022, , .		1
223	RIS-assisted beamforming for energy efficiency in multiuser downlink transmissions. , 2022, , .		2
224	SCISRS: Signal Cancellation using Intelligent Surfaces for Radio Astronomy Services., 2022,,.		6
225	Analysis of Far-field Characteristics of RIS Based on an Equivalent Modeling and Simulation Method. , 2022, , .		0
226	Performance Evaluation for RIS-Assisted Communications with Power Allocation and Phase Shift Optimization. , 2022, , .		0
227	Reinforcement Learning Based Technique for NOMA User Pairing Enhancement in RIS Assisted HetNets. , 2022, , .		1
228	Age Minimization in Outdoor and Indoor Communications With Relay-Aided Dual RIS. IEEE Communications Letters, 2023, 27, 906-910.	4.1	0
229	Data Exchange Protocol for Weak Links with Hybrid-RIS in Wireless Networks. , 2023, , .		1
230	Enhancing NOMA Networks via Reconfigurable Multi-Functional Surface. IEEE Communications Letters, 2023, 27, 1195-1199.	4.1	2
231	Metamaterials and Their Application in the Performance Enhancement of Reconfigurable Antennas: A Review. Micromachines, 2023, 14, 349.	2.9	24
232	Joint Resource Allocation and Configuration Design for STAR-RIS-Enhanced Wireless-Powered MEC. IEEE Transactions on Communications, 2023, 71, 2381-2395.	7.8	5
233	Active RIS Assisted Rate-Splitting Multiple Access Network: Spectral and Energy Efficiency Tradeoff. IEEE Journal on Selected Areas in Communications, 2023, 41, 1452-1467.	14.0	17
234	Intelligent and Robust UAV-Aided Multiuser RIS Communication Technique With Jittering UAV and Imperfect Hardware Constraints. IEEE Transactions on Vehicular Technology, 2023, , 1-16.	6.3	2
235	Machine Learning in RIS-Assisted NOMA IoT Networks. IEEE Internet of Things Journal, 2023, 10, 19427-19440.	8.7	2
236	Joint Active and Passive Beamforming for RIS-Aided MIMO Communications With Low-Resolution Phase Shifts. IEEE Communications Letters, 2023, 27, 1604-1608.	4.1	1

#	Article	IF	CITATIONS
237	Semi-Blind Joint Channel and Symbol Estimation for IRS-Assisted MIMO Systems. IEEE Transactions on Signal Processing, 2023, 71, 1184-1199.	5.3	1
238	Wireless Beacon Enabled Hybrid Sparse Channel Estimation for RIS-Aided mmWave Communications. IEEE Transactions on Communications, 2023, 71, 3144-3160.	7.8	2
239	On the Road to 6G: Visions, Requirements, Key Technologies, and Testbeds. IEEE Communications Surveys and Tutorials, 2023, 25, 905-974.	39.4	151
240	Passive Type Reconfigurable Intelligent Surface: Measurement of Radiation Patterns. Micromachines, 2023, 14, 818.	2.9	0
241	Group-Connected Impedance Network of RIS-Assisted Rate-Splitting Multiple Access in MU-MIMO Wireless Communication Systems. Sensors, 2023, 23, 3934.	3.8	0
242	Two-Way Reliable Forwarding Strategy of RIS Symbiotic Communications for Vehicular Named Data Networks. IEEE Internet of Things Journal, 2023, 10, 19385-19398.	8.7	2
243	Comprehensive review on ML-based RIS-enhanced IoT systems: basics, research progress and future challenges. Computer Networks, 2023, 224, 109581.	5.1	22
244	Uplink Power Analysis of RIS-assisted Communication Over Shared Radar Spectrum., 2022,,.		0
245	Deep Reinforcement Learning for Deception in IRS-assisted UAV Communications. , 2022, , .		0
246	A survey on reconfigurable intelligent surfaces: Wireless communication perspective. IET Communications, 2023, 17, 497-537.	2.2	12
247	Active RIS-Assisted Transmission Design for Wireless Secrecy Network with Energy Harvesting. Mathematical Problems in Engineering, 2023, 2023, 1-9.	1.1	1
248	Physical-Layer Security with Irregular Reconfigurable Intelligent Surfaces for 6G Networks. Sensors, 2023, 23, 1881.	3.8	0
249	Security Enhancement for Coupled Phase-Shift STAR-RIS Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 8210-8215.	6.3	10
250	A Low Complexity Passive Beamforming Design for Reconfigurable Intelligent Surface (RIS) in 6G Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 6309-6321.	6.3	2
251	A Review on Cell-Free Massive MIMO Systems. Electronics (Switzerland), 2023, 12, 1001.	3.1	11
252	Reconfigurable Intelligent Surfaces: Redefining the Entirety of Wireless Communication Systems in Leaps and Bounds. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 319-331.	0.3	0
253	STARS Enabled Integrated Sensing and Communications. IEEE Transactions on Wireless Communications, 2023, 22, 6750-6765.	9.2	11
254	Multi-Armed Bandit based Capacity Enhancement Approach for Reconfigurable Intelligent Surface Assisted Multi-cell System., 2022,,.		0

#	Article	IF	CITATIONS
255	Joint information transmission design for intelligent reflecting surface aided system with discrete phase shifts. Science China Information Sciences, 2023, 66, .	4.3	0
256	Joint Location and Beamforming Design for STAR-RIS Assisted NOMA Systems. IEEE Transactions on Communications, 2023, 71, 2532-2546.	7.8	7
257	Bi-directional Deep Transfer Learning for RIS-enhanced Multi-cell OFDMA Systems. , 2022, , .		0
258	Intelligent metasurface system for automatic tracking of moving targets and wireless communications based on computer vision. Nature Communications, 2023, 14, .	12.8	25
259	IRS-Aided Communications With Finite-Alphabet Inputs: Analysis and Design. IEEE Communications Letters, 2023, 27, 1110-1114.	4.1	1
260	A Dynamic Subarray Structure in Reconfigurable Intelligent Surfaces for TeraHertz Communication Systems. , 2022, , .		1
261	Budgeted Thompson Sampling for IRS Enabled WiGig Relaying. Electronics (Switzerland), 2023, 12, 1146.	3.1	3
262	Robust Beamforming Design for RIS-Aided NOMA Secure Networks With Transceiver Hardware Impairments. IEEE Transactions on Communications, 2023, 71, 3637-3649.	7.8	3
263	Deep Reinforcement Learning for Internet of Drones Networks: Issues and Research Directions. IEEE Open Journal of the Communications Society, 2023, 4, 671-683.	6.9	2
264	Reconfigurable Intelligent Surfaces Enabling 6G Wireless Communication Systems: Use Cases and Technical Considerations. , 2022, , .		0
265	5G and 6G Wireless Communication. Advances in Wireless Technologies and Telecommunication Book Series, 2023, , 284-310.	0.4	0
266	Temporal Neural Network Framework Adaptation in Reconfigurable Intelligent Surface-Assisted Wireless Communication. Sensors, 2023, 23, 2777.	3.8	2
267	Overcoming the Digital Divide by Large-Scale Coverage Analyses for mmWave Cellular Networks. , 2022, , .		0
268	3-D Transmitting Pattern Manipulation Structures Using Slotline Bandpass Filter Elements: Synthetic Design and Implementation. IEEE Transactions on Microwave Theory and Techniques, 2023, 71, 3312-3322.	4.6	0
269	Broadband Characterization of Silicate Materials for Potential 5G/6G Applications. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-8.	4.7	3
270	RIS-Assisted Secure Communications: Low-Complexity Beamforming Design. IEEE Wireless Communications Letters, 2023, 12, 1012-1016.	5.0	2
271	Study of the Characteristics of Reconfigurable Intelligent Surfaces with Imperfect Unit Cells. Journal of Communications Technology and Electronics, 2022, 67, S159-S166.	0.5	0
272	Considerations on Potential Standardization Work for Reconfigurable Intelligent Surface., 2022,,.		1

#	Article	IF	Citations
273	Review Paper on Hardware of Reconfigurable Intelligent Surfaces. IEEE Access, 2023, 11, 29614-29634.	4.2	19
274	A Proposed Channel Estimation Framework for Reconfigurable-Intelligent-Surface-Aided MIMO Communication System. IEEE Internet of Things Journal, 2023, 10, 13612-13621.	8.7	1
275	Joint Base Station and IRS Deployment for Enhancing Network Coverage: A Graph-Based Modeling and Optimization Approach. IEEE Transactions on Wireless Communications, 2023, 22, 8200-8213.	9.2	2
276	Machine-Learning-Based Optimization for Multiple-IRS-Aided Communication System. Electronics (Switzerland), 2023, 12, 1703.	3.1	1
277	Sum Rate Maximization for Active RIS-Aided Uplink Multi-Antenna NOMA Systems. IEEE Wireless Communications Letters, 2023, 12, 1149-1153.	5.0	5
278	Computer Vision-Aided Reconfigurable Intelligent Surface-Based Beam Tracking: Prototyping and Experimental Results. IEEE Transactions on Wireless Communications, 2023, 22, 8681-8693.	9.2	4
279	Two-Timescale Transmission Design and RIS Optimization for Integrated Localization and Communications. IEEE Transactions on Wireless Communications, 2023, , 1-1.	9.2	1
280	Standalone-IRS Control Method using Hierarchical Exploration by Beamwidth Expansion and Environment-adaptive Codebook. IEEE Transactions on Vehicular Technology, 2023, , 1-11.	6.3	0
281	Height-Fixed UAV Enabled Energy-Efficient Data Collection in RIS-Aided Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2023, 22, 7452-7463.	9.2	0
282	Holistic Enlightening of Blackspots with Passive Tailorable Reflecting Surfaces for Efficient Urban mmWave Networks. IEEE Access, 2023, , 1-1.	4.2	1
283	The optimal energy-efficient design of user-specific RIS-aided uplink communication system. Physical Communication, 2023, 59, 102082.	2.1	0
284	Joint Communication and Sensing Design for Multi-hop RISs-aided Communication Systems in Underground Coal Mines. IEEE Internet of Things Journal, 2023, , 1-1.	8.7	0
285	Outage Behaviors of Active Intelligent Reflecting Surface Enabled NOMA Communications. CMES - Computer Modeling in Engineering and Sciences, 2023, 137, 789-812.	1.1	0
286	Backscatter Communication Meets Practical Battery-Free Internet of Things: A Survey and Outlook. IEEE Communications Surveys and Tutorials, 2023, 25, 2021-2051.	39.4	2
287	Physical-Layer Security for Intelligent-Reflecting-Surface-Aided Wireless-Powered Communication Systems. IEEE Internet of Things Journal, 2023, 10, 18097-18110.	8.7	1
288	Deep Reinforcement Learning for Secrecy Energy Efficiency Maximization in RIS-Assisted Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 12413-12418.	6.3	0
289	Energy-Efficient Beamforming Design for RIS-Aided MIMO Downlink Communication With SWIPT. IEEE Transactions on Green Communications and Networking, 2023, 7, 1164-1180.	5.5	2
290	Multi-Functional Reconfigurable Intelligent Surface. , 2023, , .		1

#	Article	IF	CITATIONS
291	Security and Privacy for Reconfigurable Intelligent Surface in 6G: A Review of Prospective Applications and Challenges. IEEE Open Journal of the Communications Society, 2023, 4, 1196-1217.	6.9	12
292	Intelligent Reflecting Surfaces Assisted UAV Reliable Communication. , 2023, , .		0
293	Coverage and Capacity Optimization in STAR-RISs Assisted Networks: A Machine Learning Approach. , 2023, , .		0
294	Doppler Shift and Channel Estimation for Intelligent Transparent Surface Assisted Communication Systems on High-Speed Railways. IEEE Transactions on Communications, 2023, 71, 4204-4215.	7.8	2
295	RIS-Assisted Interference Mitigation for Uplink NOMA. , 2023, , .		2
296	Energy-Efficient Joint Broadcast-Unicast Communications via Aerial RIS. , 2023, , .		0
297	Outage probability of multiple-IRS-assisted SISO wireless communications over Rician fading. Physical Communication, 2023, 59, 102102.	2.1	3
298	Downlink TDMA Scheduling for IRS-aided Communications with Block-Static Constraints. , 2023, , .		0
299	Probability-Reduction of Geolocation using Reconfigurable Intelligent Surface Reflections., 2023,,.		0
300	A survey of UAV-based data collection: Challenges, solutions and future perspectives. Journal of Network and Computer Applications, 2023, 216, 103670.	9.1	8
301	A Survey on STAR-RIS: Use Cases, Recent Advances, and Future Research Challenges. IEEE Internet of Things Journal, 2023, 10, 14689-14711.	8.7	17
302	Energy-Efficient Beamforming and Resource Optimization for STAR-IRS Enabled Hybrid-NOMA 6G Communications. IEEE Transactions on Green Communications and Networking, 2023, 7, 1356-1368.	5 . 5	2
303	RIS-NOMA-aided LEO Satellite Communication Networks. , 2022, , .		0
304	Intelligent Reflecting Surface Assisted SWIPT Relay Cooperation System., 2022,,.		0
305	Compact Liquid Crystal-based Defective Ground Structure Phase Shifter for Reconfigurable Intelligent Surfaces., 2023,,.		1
306	Overview of Reconfiguration Technologies for Reflectarrays and Trasmitarrays., 2023,,.		0
307	Plasma-Based Intelligent Reflective Surfaces for Beam Steering Operations. , 2023, , .		0
308	Joint Beamforming Algorithm for Multi-stream MIMO Systems Assisted by Multiple Reconfigurable Intelligent Surfaces. IEEE Open Journal of the Communications Society, 2023, , 1-1.	6.9	1

#	Article	IF	CITATIONS
309	RIS-Assisted Jamming Rejection and Path Planning for UAV-Borne IoT Platform: A New Deep Reinforcement Learning Framework. IEEE Internet of Things Journal, 2023, 10, 20162-20173.	8.7	3
310	RIS-loE for Data-Driven Networks: New Mentalities, Trends and Preliminary Solutions. IEEE Internet of Things Magazine, 2023, 6, 102-107.	2.6	1
311	Fluid Antenna Systemâ€"Part III: A New Paradigm of Distributed Artificial Scattering Surfaces for Massive Connectivity. IEEE Communications Letters, 2023, 27, 1929-1933.	4.1	2
312	Joint Design of a Simultaneous Reflection and Transmission RIS in Mode-Switching Mode to Assist NOMA Systems. Sensors, 2023, 23, 5504.	3.8	0
313	Channel Estimation for RIS-Assisted MIMO Systems in Millimeter Wave Communications. Sensors, 2023, 23, 5516.	3.8	1
314	STAR-RIS-UAV-Aided Coordinated Multipoint Cellular System for Multi-User Networks. Drones, 2023, 7, 403.	4.9	1
315	STARS-ISAC: How Many Sensors Do We Need?. IEEE Transactions on Wireless Communications, 2024, 23, 1085-1099.	9.2	0
316	Joint Optimization of Resource Allocation, Phase Shift, and UAV Trajectory for Energy-Efficient RIS-Assisted UAV-Enabled MEC Systems. IEEE Transactions on Green Communications and Networking, 2023, 7, 1778-1792.	5.5	3
317	Hardware Aspects of Sub-THz Antennas and Reconfigurable Intelligent Surfaces for 6G Communications. IEEE Journal on Selected Areas in Communications, 2023, 41, 2530-2546.	14.0	8
318	Beampattern design for radars with reconfigurable intelligent surfaces. , 2023, , .		0
319	RIS-aided Multi-hop Backhauling for 5G/6G UAV-assisted Access Points. Journal of Telecommunications and Information Technology, 2023, , 63-69.	0.4	0
320	Current Based Automated Design of Realizable Metasurface Antennas With Arbitrary Pattern Constraints. IEEE Transactions on Antennas and Propagation, 2023, 71, 4888-4902.	5.1	0
321	Simultaneous Active and Passive Information Transfer for RIS-Aided MIMO Systems: Iterative Decoding and Evolution Analysis. IEEE Transactions on Signal Processing, 2023, 71, 1683-1698.	5.3	1
322	Exploiting NOMA and RIS in Integrated Sensing and Communication. IEEE Transactions on Vehicular Technology, 2023, 72, 12941-12955.	6.3	0
323	A novel channel estimation strategy for practical RIS-aided wideband OFDMA communications. Wireless Networks, 0, , .	3.0	0
324	On the Ergodic Secrecy Capacity of Reconfigurable Intelligent Surface Aided Wireless Systems Under Mixture Gamma Fading., 2023,,.		2
325	A Three-Stage Channel Estimation Approach for RIS-Aided Millimeter-wave MIMO Systems. , 2023, , .		0
326	Resource allocation of backscatter communication based on reconfigurable intelligent surface. Advanced Control for Applications, 0, , .	1.7	O

#	Article	IF	Citations
327	Performance Analysis of NOMA-RIS Aided Integrated Navigation and Communication (INAC) Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 13255-13268.	6.3	1
328	Channel Estimation in RIS-Assisted MIMO Systems Operating Under Imperfections. IEEE Transactions on Vehicular Technology, 2023, , 1-14.	6.3	1
329	Robust Max-Min Fairness Transmission Design for IRS-Aided Wireless Network Considering User Location Uncertainty. IEEE Transactions on Communications, 2023, 71, 4678-4693.	7.8	0
330	Classical and Quantum Processing in the Deep Physical Layer. IEEE Access, 2023, , 1-1.	4.2	0
331	Network for Distributed Intelligence: a Survey and Future Perspectives. IEEE Access, 2023, , 1-1.	4.2	1
332	IRS-Assisted Secure UAV Communication System for Multiuser With Hardware Impairments. IEEE Systems Journal, 2023, , 1-12.	4.6	0
333	Outage probability analysis of multiple intelligent reflecting surfaceâ€assisted singleâ€input singleâ€output systemÂwith switched diversity. International Journal of Communication Systems, 2023, 36, .	2.5	3
334	Composite Vortex Manipulation as a Design Tool for Reflective Intelligent Surfaces. IEEE Antennas and Wireless Propagation Letters, 2023, 22, 2392-2396.	4.0	5
335	Multi-Active Multi-Passive (MAMP)-IRS Aided Wireless Communication: A Multi-Hop Beam Routing Design. IEEE Journal on Selected Areas in Communications, 2023, 41, 2497-2513.	14.0	3
336	Deep Reinforcement Learning based Spectral Efficiency Maximization in STAR-RIS-Assisted Indoor Outdoor Communication. , 2023, , .		2
337	Reconfigurable Intelligent Surface-Aided Spatial Media-Based Modulation. IEEE Transactions on Green Communications and Networking, 2023, 7, 1971-1980.	5.5	2
338	Active Simultaneously Transmitting and Reflecting (STAR)-RISs: Modeling and Analysis. IEEE Communications Letters, 2023, 27, 2466-2470.	4.1	5
339	Blockage Effects in RIS-enabled Communication. , 2023, , .		0
340	Enhancing wireless sensing via a target-mounted intelligent reflecting surface. National Science Review, 2023, 10, .	9.5	1
341	Optimal RIS Allocations for PLS With Uncertain Jammer and Eavesdropper. IEEE Transactions on Consumer Electronics, 2023, 69, 927-936.	3.6	0
342	Applying RIS-Based Communication for Collaborative Computing in a Swarm of Drones. IEEE Access, 2023, 11, 70093-70109.	4.2	0
343	Double-Active-IRS Aided Wireless Communication: Deployment Optimization and Capacity Scaling. IEEE Wireless Communications Letters, 2023, 12, 1821-1825.	5.0	0
344	RIS-Assisted Flexible Space Shift Keying for Wireless Communication System. IEEE Wireless Communications Letters, 2023, , 1-1.	5.0	0

#	Article	IF	CITATIONS
345	Robust Anti-Jamming Technique for UAV Data Collection in IoT Using Landing Platforms and RIS. IEEE Access, 2023, 11, 70635-70651.	4.2	1
346	Channel Estimation of mmWave Massive MIMO Systems Using Large Intelligent Surfaces. Communications in Computer and Information Science, 2023, , 242-250.	0.5	0
347	Radar Target Detection and Localization Aided by an Active Reconfigurable Intelligent Surface. IEEE Signal Processing Letters, 2023, 30, 903-907.	3.6	1
348	DRL Enabled Coverage and Capacity Optimization in STAR-RIS-Assisted Networks. IEEE Transactions on Communications, 2023, 71, 6616-6632.	7.8	0
349	Deep Reinforcement Learning-Driven Reconfigurable Intelligent Surface-Assisted Radio Surveillance With a Fixed-Wing UAV. IEEE Transactions on Information Forensics and Security, 2023, 18, 4546-4560.	6.9	2
350	PARAFAC Decomposition based Channel Estimation for RIS-aided Multi-User MISO Wireless Communications., 2023,,.		1
352	Review on Channel Estimation for Reconfigurable Intelligent Surface Assisted Wireless Communication System. Mathematics, 2023, 11, 3235.	2.2	0
353	IRS-Aided Sectorized Base Station Design and 3D Coverage Performance Analysis. , 2023, , .		0
354	Discrete-Value Group and Fully Connected Architectures for Beyond Diagonal Reconfigurable Intelligent Surfaces. IEEE Transactions on Vehicular Technology, 2023, 72, 16354-16368.	6.3	4
355	Electrically Actuated Liquid-Metal Unit Cell for an Intelligent Reflecting Surface. , 2023, , .		0
356	Toward Subâ€Terahertz: Spaceâ€Time Coding Metasurface Transmitter for Wideband Wireless Communications. Advanced Science, 2023, 10, .	11.2	2
357	Non-Reciprocal RIS-Assisted Wireless Communications: Channel Modeling. , 2023, , .		0
358	Intelligent reflecting surface aided co-existing radar and communication system., 2023, 141, 104184.		0
359	Multi-Objective Optimization of URLLC-Based Metaverse Services. IEEE Transactions on Communications, 2023, 71, 6745-6761.	7.8	0
360	User Scheduling and Passive Beamforming for FDMA/OFDMA in Intelligent Reflection Surface., 2023,,.		1
361	Integrated-Navigation-and-Communication (INAC): A Reconfigurable Intelligent Surface (RIS)-aided Approach. , 2023, , .		0
362	Near-Field Beam Management with Ring-type Codebook. , 2023, , .		0
363	Sensing Aided Reconfigurable Intelligent Surfaces for 3GPP 5G Transparent Operation. IEEE Transactions on Communications, 2023, 71, 6348-6362.	7.8	2

#	Article	IF	CITATIONS
364	Reconfigurable Intelligent Surface Assisted Railway Communications: A survey., 2023,,.		0
365	Near-Field Communications: A Tutorial Review. IEEE Open Journal of the Communications Society, 2023, 4, 1999-2049.	6.9	5
366	Secure Performance of STAR-RIS Aided NOMA System with Imperfect SIC. IEEE Wireless Communications Letters, 2023 , , $1-1$.	5.0	0
367	Channel reconfiguration for intelligent reflecting surfaceâ€aided vehicular networks. Transactions on Emerging Telecommunications Technologies, 2023, 34, .	3.9	0
368	åŒ RIS 辅助的雷达目æ‡ä½ç½®ä¸Žé€Ÿåº¦æμ‹é‡• Scientia Sinica Informationis, 2023, , .	0.4	0
369	Connectivity of Intelligent Reflecting Surface Assisted Network via Percolation Theory. IEEE Transactions on Cognitive Communications and Networking, 2023, , 1-1.	7.9	0
370	Pilot-Aided Channel Estimation for RIS-Assisted Wireless Systems over Time-Varying Fading Channels. , 2023, , .		0
371	Blind reconfigurable intelligent surface-aided fixed non-orthogonal multiple access for intelligent vehicular networks. Eurasip Journal on Wireless Communications and Networking, 2023, 2023, .	2.4	1
372	Dimensionality Reduction of Sparse Wireless Channel Based on Spatial Geometrical Structure of RIS Assisted Communication System. , 2023, , .		0
373	Multi-user Scheduling in Controlled Wireless Environments. , 2022, , .		0
374	Critical Element First: Enhance C-V2X Signal Coverage using Power-Efficient Liquid Metal-Based Intelligent Reflective Surfaces., 2023,,.		0
375	Reconfigurable Intelligent Surface MIMO Simulation using Quasi Deterministic Radio Channel Model. , 2022, , .		4
376	On the Effective Capacity of RIS-enabled mmWave Networks with Outdated CSI., 2023,,.		0
377	DBPN Based Uplink Channel Estimation for Multi-User MISO RIS System. IEEE Wireless Communications Letters, 2023, , 1-1.	5.0	0
378	Sum-Rate Maximization in STAR-RIS-Assisted RSMA Networks: A PPO-Based Algorithm. IEEE Internet of Things Journal, 2024, 11, 5667-5680.	8.7	0
379	Reconfigurable Intelligent Surfaces: Design, Implementation, and Practical Demonstration. , 2023, 1, $1-21$.		7
380	Optimization of Full-Duplex UAV Secure Communication with the Aid of RIS. Drones, 2023, 7, 591.	4.9	0
381	Compressed channel estimation for RIS-assisted wireless systems: An efficient sparse recovery algorithm. Physical Communication, 2023, 60, 102153.	2.1	0

#	ARTICLE	IF	CITATIONS
382	Active STARS-Assisted Rate-Splitting Multiple-Access Networks. Electronics (Switzerland), 2023, 12, 3815.	3.1	0
383	Reconfigurable Intelligent Surface for Physical Layer Security in 6G-loT: Designs, Issues, and Advances. IEEE Internet of Things Journal, 2024, 11, 3599-3613.	8.7	8
384	DDPG Performance in THz Communications over Cascaded RISs: A Machine Learning Solution to the Over-Determined System. , 2023, , .		0
385	Deep reinforcement learning empowered joint mode selection and resource allocation for RIS-aided D2D communications. Neural Computing and Applications, 2023, 35, 18231-18249.	5.6	1
386	Sensing-Based Beamforming Design for Joint Performance Enhancement of RIS-Aided ISAC Systems. IEEE Transactions on Communications, 2023, 71, 6529-6545.	7.8	1
387	Performance Analysis and Optimization of Reconfigurable Multi-Functional Surface Assisted Wireless Communications. IEEE Transactions on Communications, 2023, 71, 6695-6710.	7.8	O
388	Joint Waveform & Diagnostic Engineering for Terahertz Communications in 6G., 2023,,.		0
389	New Results on Single User Massive MIMO. , 0, , .		2
390	RIS-Aided MIMO Systems with Simultaneous Active and Passive Information Transfer: Iterative Decoding and Evolution Analysis. , 2023, , .		0
391	Intelligent reflecting surfaceâ€assisted beamformingâ€NOMA networks for shortâ€packet communications: Performance analysis and deep learning approach. IET Communications, 2023, 17, 1940-1954.	2.2	1
392	Deep Learning-Driven Beamforming Vector Design and Data Detection in IRS-Enabled Communication. , 2023, , .		1
393	Performance of Intelligent Reflecting Surfaces Assisted Joint Radar and Communication Systems. , 2023, , .		O
394	Utilization of Reconfigurable Intelligent Surfaces with Context Information - Use Cases. Journal of Telecommunications and Information Technology, 2023, 3, 74-77.	0.4	0
395	Two-Stage Hierarchical Beam Training for Near-Field Communications. IEEE Transactions on Vehicular Technology, 2024, 73, 2032-2044.	6.3	1
396	1-Bit Reconfigurable Intelligent Surface Element Design and Its Equivalent Circuit Model. , 2023, , .		0
397	RIS-Aided Communication with Compressed Sensing Channel Estimation: Analysis and Discrete Phase Shifts Design. , 2023, , .		O
398	Indoor Nonâ€Lineâ€ofâ€Sight Millimeterâ€Wave Coverage Enhancements by Fieldâ€Reorganizable Passive Digita Coding Metasurfaces. Advanced Photonics Research, 2023, 4, .	3.6	0
399	Broadband Dielectric Characterization of Glasses and Other Silicates up to the THz Frequencies. , 2023, , .		1

#	Article	IF	CITATIONS
400	Integrated Sensing and Communications With Reconfigurable Intelligent Surfaces: From signal modeling to processing. IEEE Signal Processing Magazine, 2023, 40, 41-62.	5.6	4
401	Physical layer security of STAR-RIS-aided RSMA systems. Physical Communication, 2023, 61, 102192.	2.1	0
402	Optimization for Multi-Cell NOMA Systems Assisted by Multi-RIS with Inter-RIS Reflection. IEEE Communications Letters, 2023, , 1-1.	4.1	0
403	Empowering Non-Terrestrial Networks With Artificial Intelligence: A Survey. IEEE Access, 2023, 11, 100986-101006.	4.2	4
404	QoS-Aware Resource Allocation of RIS-Aided Multi-User MISO Wireless Communications. IEEE Transactions on Vehicular Technology, 2024, 73, 2872-2877.	6.3	0
405	Transceiver Design for Secure Wireless Communication Networks with IRS using Deep Learning: A Survey., 2023,,.		0
406	IRS-enabled NOMA communication systems: A network architecture primer with future trends and challenges. Digital Communications and Networks, 2023, , .	5.0	4
407	Accurate Beam Training for RIS-Assisted Wideband Terahertz Communication. IEEE Transactions on Communications, 2023, , 1-1.	7.8	1
408	UAV-Mounted RIS Assisted UAV Communications Incorporating NOMA: Performance Evaluation and Optimization. , 2023, , .		0
409	Terahertz wireless communication systems: challenges and solutions for realizations of effective bidirectional links., 2023, 2, 2154.		1
410	A Comprehensive Survey on Full-Duplex Communication: Current Solutions, Future Trends, and Open Issues. IEEE Communications Surveys and Tutorials, 2023, 25, 2190-2244.	39.4	0
411	Qualitative Survey on Artificial Intelligence Integrated Blockchain Approach for 6G and Beyond. IEEE Access, 2023, 11, 105935-105981.	4.2	0
412	STARS Enabled Full-Space Integrated Sensing and Communications. , 2023, , .		0
413	Intelligent Omni-Surface Assisted Physical Layer Security Communication., 2023,,.		0
414	Joint Symbol and ToA Estimation in RIS-Assisted UWB Indoor Localization. , 2023, , .		0
415	Impulse Response Modeling and Dynamic Analysis for SIMO UOWC Systems Enhanced by RIS-Equipped UUVs. IEEE Transactions on Vehicular Technology, 2024, 73, 1540-1553.	6.3	0
416	A 1-Bit Coding Reconfigurable Metasurface Reflector for Circularly Polarized Wave Beam Steering from Linearly Polarized Incidence. , 2023 , , .		0
417	A 3D Geometry-Based Reconfigurable Intelligent Surfaces-Assisted mmWave Channel Model for High-Speed Train Communications. IEEE Transactions on Vehicular Technology, 2024, 73, 1524-1539.	6.3	0

#	ARTICLE	IF	CITATIONS
418	Simultaneous Transmitting and Reflecting Reconfigurable Intelligent Surfaces-Empowered NOMA Networks. IEEE Systems Journal, 2023, , 1-11.	4.6	1
419	OFDRA: Optimal Femtocell Deployment for Accurate Indoor Positioning of RIS-Mounted AVs. IEEE Journal on Selected Areas in Communications, 2023, 41, 3783-3798.	14.0	2
420	Neural Networks Based Phase Estimation and Symbol Detection for RIS-Assisted Wireless Communications. IEEE Communications Letters, 2023, , 1-1.	4.1	0
421	Federated Learning Meets Intelligence Reflection Surface in Drones for Enabling 6G Networks: Challenges and Opportunities. IEEE Access, 2023, 11, 130860-130887.	4.2	11
422	Sum Rate Optimization for MIMO Multicasting Network with Active IRS. International Journal of Distributed Sensor Networks, 2023, 2023, 1-8.	2.2	0
423	QoS-Aware Energy Storage Maximization in the RIS-Aided Joint-SWIPT-MEC System. IEEE Communications Letters, 2023, 27, 3434-3438.	4.1	0
424	An RIS-Aided Interference Mitigation-Based Design for MIMO-NOMA in Cellular Networks. IEEE Transactions on Green Communications and Networking, 2024, 8, 317-329.	5.5	0
425	Multi-Functional Reconfigurable Intelligent Surfaces for Enhanced Sensing and Communication. Sensors, 2023, 23, 8561.	3.8	0
427	The research on reconfigurable intelligent surface progress, challenges, and applications. , 2023, , .		0
428	Unit Cell Design for Intelligent Reflecting and Refracting Surface (IRS) With Independent Electronic Control Capability . IEEE Antennas and Wireless Propagation Letters, 2024, 23, 414-418.	4.0	1
429	Reflective Group Number Based Index Modulation for Intelligent Reflecting Surface Assisted Wireless Communications. , 2023, , .		0
430	Channel Estimation and Pilot Allocation for Practical RIS-Aided Wideband OFDMA Systems., 2023,,.		0
431	Energy-Efficient Design for RIS-Aided Cell-Free Ultra Dense HetNets. , 2023, , .		0
432	Resource Allocation for Integrated STAR-RISs and Full-Duplex Relay Communication Systems. , 2023, , .		0
433	Low-Complexity Robust Transmission Algorithm for IRS-Enhanced Cognitive Satellite-Aerial Networks. , 2023, , .		0
434	Robust Beamforming Design for STAR-RIS Assisted SWIPT Systems. , 2023, , .		1
435	IRS-Assisted MISO with Finite-Alphabet Inputs Using Two-Timescale CSI., 2023,,.		0
436	Indoor Coverage Enhancement for RIS-Assisted Communication Systems: Practical Measurements and Efficient Grouping., 2023,,.		3

#	Article	IF	Citations
437	Performance analysis of RIS-assisted downlink NOMA wireless systems under D2D interference. , 2024, 144, 104269.		1
438	Experimental study of holographic metasurface for beam steering applications. Journal of Applied Physics, 2023, 134, .	2.5	0
439	Digital Twins for Maintaining QoS in Programmable Vehicular Networks. IEEE Network, 2023, 37, 208-214.	6.9	0
440	Flexible Sensing Antenna for Overbending Detection in Intelligent Packaging Applications. , 2023, 7, 1-4.		0
441	Reconfigurable Intelligent Surface-Assisted Radar Deception Electronic Counter-Countermeasures. Remote Sensing, 2023, 15, 5149.	4.0	0
442	Integrated Access and Backhaul With RIS: Analyzing Inter-Source and Inter-User Interference. , 2023, , .		0
443	Reviews Based on the Reconfigurable Intelligent Surface Technical Issues. Electronics (Switzerland), 2023, 12, 4489.	3.1	0
444	Low-Profile and Low-Visual Impact Smart Electromagnetic Curved Passive Skins for Enhancing Connectivity in Urban Scenarios. Electronics (Switzerland), 2023, 12, 4491.	3.1	1
445	UTD-Type Solution of Physical Optics Approximation for Reconfigurable Intelligent Surface Modeled by a Continuous Planar Surface. IEEE Open Journal of Antennas and Propagation, 2023, 4, 1103-1115.	3.7	0
446	Enhancing Physical Layer Secrecy Performance for RIS-Assisted RF-FSO Mixed Wireless System. IEEE Access, 2023, 11, 127737-127753.	4.2	0
447	Power Allocation for Joint Large Intelligent Surfaces Decode-And-Forward Relay in Full-Duplex Communications - A Deep Learning Approach. , 2023, , .		0
448	Low complexity resource allocation scheme for IRSâ€assisted downlink nonâ€orthogonal multiple access systems. IET Networks, 2024, 13, 192-198.	1.8	0
449	On the Performance of IRS-Aided NOMA in Interference-Limited Networks. IEEE Wireless Communications Letters, 2024, 13, 560-564.	5.0	0
450	When Wireless Localization Meets Artificial Intelligence: Basics, Challenges, Synergies, and Prospects. Applied Sciences (Switzerland), 2023, 13, 12734.	2.5	0
451	An Arduino-controlled Reconfigurable Intelligent Surface with Angular Stability for 5G mmWave Applications. Progress in Electromagnetics Research Letters, 2023, 114, 69-74.	0.7	0
452	Optimal Mobile IRS Deployment for Empowered 6G Networks. IEEE Open Journal of the Communications Society, 2023, , 1-1.	6.9	0
454	Integrated sensing, lighting and communication based on visible light communication: A review. , 2024, 145, 104340.		0
455	Line-of-Sight MIMO in Point-to-Point Millimeter Wave Links Via Scattering from Rough Surfaces. IEEE Access, 2023, , 1-1.	4.2	0

#	Article	IF	Citations
456	Joint Hybrid Precoder and RIS Design for RIS-Aided MIMO-OFDM Systems., 2023,,.		0
457	Energy Minimization in RIS-Assisted MEC Systems with Imperfect CSI., 2023, , .		0
458	Reconfigurable Intelligent Surfaces Toward 6G: From Reflection Only to Simultaneous Transmission and Reflection (STAR). Signals and Communication Technology, 2024, , 399-424.	0.5	0
459	Transmit Power Minimization for STAR-RIS aided Bistatic Backscatter Networks. , 2023, , .		0
460	Pathloss Modeling and Analysis for Intelligent Reflecting Surface-Assisted Terahertz MIMO Wireless Systems. International Journal of RF and Microwave Computer-Aided Engineering, 2023, 2023, 1-9.	1.2	0
461	Unlocking the Power of Reconfigurable Intelligent Surfaces: From Wireless Communication to Energy Efficiency and Beyond. Applied Sciences (Switzerland), 2023, 13, 11750.	2.5	0
462	A Survey on the Impact of Intelligent Surfaces in the Terahertz Communication Channel Models. Sensors, 2024, 24, 33.	3.8	0
463	Suppression of quantization lobes in 1-bit intelligent reflective surfaces., 2023,,.		O
464	Beamforming and data detection in intelligent reflecting surfacesâ€assisted communication using deep learning. Transactions on Emerging Telecommunications Technologies, 2024, 35, .	3.9	0
465	Feasibility of RFID-Based Control of Reconfigurable Intelligent Surfaces (RISs) for Wireless Communication Systems. , 2023, , .		0
466	Composite Vortex Theory as a New Design Strategy for Intelligent Reflecting Surfaces. , 2023, , .		0
467	On the performance of intelligent reflecting surfaces-assisted OAM with NOMA under imperfect SIC. Physical Communication, 2024, 62, 102236.	2.1	1
468	Coupled Resonator-Based Metasurface Reflector With Enhanced Magnitude and Phase Coverage. IEEE Transactions on Antennas and Propagation, 2024, 72, 901-914.	5.1	1
469	Inkjet printed intelligent reflecting surface for indoor applications. Electronics Letters, 2023, 59, .	1.0	0
470	Joint Beamforming Optimization Design and Performance Evaluation of RIS-Aided Wireless Networks: A Comprehensive State-of-the-Art Review. IEEE Access, 2023, 11, 141801-141859.	4.2	0
471	Reconfigurable Intelligent Surfaces for OTA Testing: Optimization and Initial Results. , 2023, , .		0
472	Double RISs assisted task offloading for NOMA-MEC with action-constrained deep reinforcement learning. Knowledge-Based Systems, 2024, 284, 111307.	7.1	0
473	Over-the-RIS Modulation: A Reconfigurable Intelligent Surface Assisted Modulation Design. , 2023, , .		0

#	Article	IF	CITATIONS
474	Experiment-based deep learning approach for power allocation with a programmable metasurface. , 2023, $1,\ldots$		0
475	On the Performance of IRS-Assisted IoT-NTN With Joint Imperfect Phase Estimation and Quantization. IEEE Open Journal of the Communications Society, 2024, 5, 256-275.	6.9	1
476	A Miniaturized 1-bit Reflective Unit Cell for Reconfigurable Intelligent Surface., 2023,,.		0
477	Comparison of Compact Liquid Crystal-based Phase Shifting Topologies for Reconfigurable Intelligent Surfaces., 2023,,.		O
478	Statistically Optimal Beamforming and Ergodic Capacity for RIS-Aided MISO Systems. IEEE Access, 2024, 12, 10699-10717.	4.2	0
479	Secure Communication Optimization in NOMA Systems with UAV-mounted STAR-RIS. IEEE Transactions on Information Forensics and Security, 2023, , $1\text{-}1$.	6.9	O
480	A Survey of Physical Layer Secret Key Generation Enhanced by Intelligent Reflecting Surface. Electronics (Switzerland), 2024, 13, 258.	3.1	0
481	Modular Quantum Machine Learning for Channel Estimation in STAR-RIS Assisted Communication Systems. , 2023, , .		O
482	RIS-Assisted Precoding Spatial Modulation: Optimal Design and Performance Analysis. IEEE Access, 2024, 12, 4399-4412.	4.2	0
483	Empowering the Vehicular Network with RIS Technology: A State-of-the-Art Review. Sensors, 2024, 24, 337.	3.8	O
484	Human-Centric Irregular RIS-Assisted Multi-UAV Networks With Resource Allocation and Reflecting Design for Metaverse. IEEE Journal on Selected Areas in Communications, 2024, 42, 603-615.	14.0	1
485	Rate Loss Analysis of Reconfigurable Intelligent Surface-Aided NOMA With Limited Feedback. IEEE Open Journal of the Communications Society, 2024, 5, 856-871.	6.9	O
486	Throughput Maximization for RIS-Assisted UAV-Enabled WPCN. IEEE Access, 2024, 12, 13418-13430.	4.2	0
487	Multi-IRS-Aided Terahertz Networks: Channel Modeling and User Association With Imperfect CSI. IEEE Open Journal of the Communications Society, 2024, 5, 836-855.	6.9	0
488	Leveraging Edge Computing for Minimizing Base Station Energy Consumption in Multi-Cell (N)OMA Downlink Systems. IEEE Open Journal of the Communications Society, 2024, 5, 885-907.	6.9	0
490	Distributed Data-Driven Learning-Based Optimal Dynamic Resource Allocation for Multi-RIS-Assisted Multi-User Ad-Hoc Network. Algorithms, 2024, 17, 45.	2.1	0
491	Clustering-Beamforming Algorithm for Security Performance in Multiple Flying RISs-supported Systems., 2023,,.		0
492	基于智è∱½è¶…表é¢å®½å¸¦æ¨¡åž‹çš"下行åڰ҉用æ^·MISO-OFDM系统最å&åŒ−最å°é€Ÿçއ伝åŒ	–. Þrøntier	s of Informati

#	Article	IF	Citations
493	An Improved DDQN Method for Throughput in RIS-Assisted UAV System. , 2023, , .		0
494	å…æ•°æ"¡è½¬æ¢çš"æ•°å—å•釿ž"智能超è;"颿ž¶æž". Frontiers of Information Technology and Electro	onic2Engin	eeriag, 2023,
495	Simultaneously transmitting and reflecting (STAR) RISs for 6G: fundamentals, recent advances, and future directions. Frontiers of Information Technology and Electronic Engineering, 2023, 24, 1689-1707.	2.6	0
496	é¢å'6Gçš"å•釿ž"智能超術é¢: 应甓〕挑æ~㒌解决旹æ¡^. Frontiers of Information Technology	and: Bectr	oni o Engineer
497	Reconfigurable Intelligent Surface Assisted Semantic Communication Systems. , 2023, , .		1
498	STAR-RIS-Aided Full-Duplex Communication for Massive MIMO IoT Systems. , 2023, , .		0
499	Hardware Implementations of a Deep Learning Approach to Optimal Configuration of Reconfigurable Intelligence Surfaces. Sensors, 2024, 24, 899.	3.8	0
500	Navigation and Deployment of Solar-Powered Unmanned Aerial Vehicles for Civilian Applications: A Comprehensive Review. Drones, 2024, 8, 42.	4.9	0
501	A Passive EKF-Based RIS-Aided Cellular Navigation System. , 2023, , .		0
502	Arbitrary Reflection Beamforming for Reconfigurable Intelligent Surface under Discrete Modulus Constraint., 2023,,.		0
503	Design of Intelligent Reflecting Surface-Assisted Wireless Computational Imaging., 2023, , .		0
504	Indoor Measurements for RIS-Aided Communication: Practical Phase Shift Optimization, Coverage Enhancement, and Physical Layer Security. IEEE Open Journal of the Communications Society, 2024, 5, 1243-1255.	6.9	0
505	Simultaneously Transmitting and Reflecting Surface Assisted Multi-Antenna Covert Communications. , 2023, , .		0
506	Sum Rate Optimization for Multi-IRS-Aided Multi-BS Communication System Based on Multi-Agent. Electronics (Switzerland), 2024, 13, 735.	3.1	0
507	Integrated Navigation and Communication (INAC) Networks: A NOMA-RIS aided Approach., 2023,,.		0
508	Performance Comparison of IRS-Assisted SSK Modulation Over Rayleigh and Nakagami- <i>m</i> Fading Channels. IETE Journal of Research, 0, , 1 -8.	2.6	0
509	ND3\$ext{D}^{3}\$ QNet: Noisy duelingâ€doubleâ€deep qâ€network for reconfigurable intelligent surfaces. Electronics Letters, 2024, 60, .	1.0	0
510	Multiâ€Channel Wireless Communication Based on Amplitudeâ€Phase Reconfigurable Spaceâ€Coding Beamforming Metasurface. Advanced Electronic Materials, 0, , .	5.1	0

#	Article	IF	CITATIONS
511	Deterministic K-Identification for Future Communication Networks: The Binary Symmetric Channel Results. Future Internet, 2024, 16, 78.	3.8	0
512	Joint wireless resource allocation and bitrate adaptation for QoE improvement in IRS-aided RSMA-enabled IoMT streaming systems. Internet of Things (Netherlands), 2024, 25, 101145.	7.7	O
513	Multi RIS-Integrated MIMO Wireless Communication: End to End (E2E) Learning Performance across Diverse Network Scenarios., 2023,,.		0
514	Overview of RIS-enabled secure transmission in 6G wireless networks. Digital Communications and Networks, 2024, , .	5.0	0
515	Performance Analysis of Intelligent Reflecting Surface Assisted NOMA Networks using k- \hat{l} /4 Fading channel. , 2023, , .		0
516	Performance Analysis of ARIS-NOMA Systems under Cascade Rician Channels. Symmetry, 2024, 16, 321.	2.2	0
517	Communication Enhancement Techniques for Intelligent Maintenance and Inspection Devices of Power Systems Based on RIS. Lecture Notes in Electrical Engineering, 2024, , 673-681.	0.4	0
518	RIS-Assisted MIMO Channel Modeling with Spatially Consistent Sparsified Properties. Wireless Personal Communications, 0, , .	2.7	0
519	UAV Detection Using Reinforcement Learning. Sensors, 2024, 24, 1870.	3.8	0
520	Multi-IRS-Assisted mmWave UAV-BS Network for Coverage Extension. Sensors, 2024, 24, 2006.	3.8	O