

# Reconfigurable Intelligent Surfaces for 6G Systems: Priorities and Future Research Directions

IEEE Communications Magazine

59, 14-20

DOI: [10.1109/mcom.001.2001076](https://doi.org/10.1109/mcom.001.2001076)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Robust Beamforming Design for Intelligent Reflecting Surface Aided Cognitive Radio Systems With Imperfect Cascaded CSI. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 186-201.	7.9	36
2	Intelligent Reflecting Surface (IRS)-Aided Covert Wireless Communications With Delay Constraint. IEEE Transactions on Wireless Communications, 2022, 21, 532-547.	9.2	77
3	Analysis and Optimization of RIS-aided Massive MIMO Systems with Statistical CSI. , 2021, , .		6
4	Achievable Rate Region Maximization in Intelligent Reflecting Surfaces-Assisted Interference Channel. IEEE Transactions on Vehicular Technology, 2021, 70, 13406-13412.	6.3	4
5	Present and Future of Reconfigurable Intelligent Surface-Empowered Communications [Perspectives]. IEEE Signal Processing Magazine, 2021, 38, 146-152.	5.6	55
6	Reconfigurable Intelligent Surfaces in Challenging Environments: Underwater, Underground, Industrial and Disaster. IEEE Access, 2021, 9, 150214-150233.	4.2	24
7	Compact User-Specific Reconfigurable Intelligent Surfaces for Uplink Transmission. IEEE Transactions on Communications, 2022, 70, 680-692.	7.8	19
8	Joint Waveform and Discrete Phase Shift Design for RIS-Assisted Integrated Sensing and Communication System Under Cramer-Rao Bound Constraint. IEEE Transactions on Vehicular Technology, 2022, 71, 1004-1009.	6.3	79
9	Blocking Probability in Obstructed Tunnels With Reconfigurable Intelligent Surface. IEEE Communications Letters, 2022, 26, 458-462.	4.1	6
10	Reconfigurable Intelligent Surface-Aided MISO Systems with Statistical CSI: Channel Estimation, Analysis and Optimization : (Invited Paper). , 2021, , .		11
11	RIS-Aided D2D Communications Relying on Statistical CSI With Imperfect Hardware. IEEE Communications Letters, 2022, 26, 473-477.	4.1	16
12	Exploiting Distributed IRSs for Enabling SWIPT. IEEE Wireless Communications Letters, 2022, 11, 673-677.	5.0	3
13	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
14	Joint Active and Passive Beamforming for IRS-Assisted Radar. IEEE Signal Processing Letters, 2022, 29, 349-353.	3.6	27
15	IRS-Assisted Short Packet Wireless Energy Transfer and Communications. IEEE Wireless Communications Letters, 2022, 11, 303-307.	5.0	10
16	Transforming Fading Channel From Fast to Slow: Intelligent Refracting Surface Aided High-Mobility Communication. IEEE Transactions on Wireless Communications, 2022, 21, 4989-5003.	9.2	31
17	Cascaded Composite Turbulence and Misalignment: Statistical Characterization and Applications to Reconfigurable Intelligent Surface-Empowered Wireless Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 3821-3836.	6.3	16
18	Long-Term CSI-Based Design for RIS-Aided Multiuser MISO Systems Exploiting Deep Reinforcement Learning. IEEE Communications Letters, 2022, 26, 567-571.	4.1	12

#	ARTICLE	IF	CITATIONS
19	An Innovative Infrastructure Based on Shape-Adaptive RIS for Smart Industrial IoTs. Electronics (Switzerland), 2022, 11, 391.	3.1	1
20	Intelligent Reflecting Surface-Aided Short-Packet Non-Orthogonal Multiple Access Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 4500-4505.	6.3	29
21	Probabilistically Robust Optimization of IRS-Aided SWIPT Under Coordinated Spectrum Underlay. IEEE Transactions on Communications, 2022, 70, 2298-2312.	7.8	6
22	Robust Symbol-Level Precoding and Passive Beamforming for IRS-Aided Communications. IEEE Transactions on Wireless Communications, 2022, 21, 5486-5499.	9.2	5
23	Optimal Power Allocation in Downlink Multicarrier NOMA Systems: Theory and Fast Algorithms. IEEE Journal on Selected Areas in Communications, 2022, 40, 1162-1189.	14.0	22
24	Joint Hybrid and Passive RIS-Assisted Beamforming for mmWave MIMO Systems Relying on Dynamically Configured Subarrays. IEEE Internet of Things Journal, 2022, 9, 13913-13926.	8.7	28
25	Reconfigurable Intelligent Surface-Assisted Spatial Scattering Modulation. IEEE Communications Letters, 2022, 26, 192-196.	4.1	7
26	Revolution or Evolution? Technical Requirements and Considerations towards 6G Mobile Communications. Sensors, 2022, 22, 762.	3.8	58
27	Self-Sustainable Reconfigurable Intelligent Surface Aided Simultaneous Terahertz Information and Power Transfer (STIPT). IEEE Transactions on Wireless Communications, 2022, 21, 5420-5434.	9.2	21
28	Intelligent Reflecting Surface-Aided URLLC in a Factory Automation Scenario. IEEE Transactions on Communications, 2022, 70, 707-723.	7.8	61
29	Energy Minimization in RIS-Assisted UAV-Enabled Wireless Power Transfer Systems. IEEE Internet of Things Journal, 2023, 10, 5794-5809.	8.7	25
30	Statistical QoS Analysis of Reconfigurable Intelligent Surface-Assisted D2D Communication. IEEE Transactions on Vehicular Technology, 2022, 71, 7343-7358.	6.3	15
31	Fairness-Oriented Multiple RIS-Aided mmWave Transmission: Stochastic Optimization Methods. IEEE Transactions on Signal Processing, 2022, 70, 1402-1417.	5.3	5
32	Channel Estimation for RIS-Aided Multiuser Millimeter-Wave Systems. IEEE Transactions on Signal Processing, 2022, 70, 1478-1492.	5.3	72
33	Multiwideband Terahertz Communications Via Tunable Graphene-Based Metasurfaces in 6G Networks: Graphene Enables Ultimate Multiwideband THz Wavefront Control. IEEE Vehicular Technology Magazine, 2022, 17, 16-25.	3.4	14
34	Intelligent Omni Surface-Assisted Secure MIMO Communication Networks With Artificial Noise. IEEE Communications Letters, 2022, 26, 1231-1235.	4.1	16
35	Optimal Grouping Strategy for Reconfigurable Intelligent Surface Assisted Wireless Communications. IEEE Wireless Communications Letters, 2022, 11, 1082-1086.	5.0	10
36	Placement Optimization for Multi-IRS-Aided Wireless Communications: An Adaptive Differential Evolution Algorithm. IEEE Wireless Communications Letters, 2022, 11, 942-946.	5.0	11

#	ARTICLE	IF	CITATIONS
37	Channel Estimation and Secret Key Rate Analysis of MIMO Terahertz Quantum Key Distribution. IEEE Transactions on Communications, 2022, 70, 3350-3363.	7.8	9
38	Intelligent reflecting surface-assisted terahertz communication towards B5G and 6G: State-of-the-art. Microwave and Optical Technology Letters, 2022, 64, 858-866.	1.4	7
39	Intelligent reflecting surface assisted transceiver design optimization in non-linear SWIPT network with heterogeneous users. Wireless Networks, 0, , 1.	3.0	3
40	Reconfigurable Intelligent Surface Assisted Spatial Modulation for Symbiotic Radio. IEEE Transactions on Vehicular Technology, 2021, 70, 12918-12931.	6.3	21
41	User-Side RIS: Realizing Large-Scale Array at User Side. , 2021, , .		2
42	Joint Deployment and Resource Management for VLC-Enabled RISs-Assisted UAV Networks. IEEE Transactions on Wireless Communications, 2023, 22, 746-760.	9.2	10
43	Simultaneously Transmitting and Reflecting Intelligent Omni-Surfaces: Modeling and Implementation. IEEE Vehicular Technology Magazine, 2022, 17, 46-54.	3.4	28
44	A Multi-Eavesdropper Scheme Against RIS Secured LoS-Dominated Channel. IEEE Communications Letters, 2022, 26, 1221-1225.	4.1	6
45	Reconfigurable Intelligent Surface (RIS)-Aided Vehicular Networks: Their Protocols, Resource Allocation, and Performance. IEEE Vehicular Technology Magazine, 2022, 17, 26-36.	3.4	23
46	RIS-Aided Multiple User Interference Mitigation via Fast Successive Upper-Bound Minimization Method. IEEE Communications Letters, 2022, 26, 1853-1857.	4.1	1
47	Joint Transmit Waveform and Passive Beamforming Design for RIS-Aided DFRC Systems. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 995-1010.	10.8	68
48	Cooperative Reflection and Synchronization Design for Distributed Multiple-RIS Communications. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 980-994.	10.8	12
49	Reconfigurable Intelligent Surface for Physical Layer Key Generation: Constructive or Destructive?. IEEE Wireless Communications, 2022, 29, 146-153.	9.0	20
50	Combining Lyapunov Optimization With Evolutionary Transfer Optimization for Long-Term Energy Minimization in IRS-Aided Communications. IEEE Transactions on Cybernetics, 2023, 53, 2647-2657.	9.5	1
51	Rethinking Sustainable Sensing in Agricultural Internet of Things: From Power Supply Perspective. IEEE Wireless Communications, 2022, 29, 102-109.	9.0	33
52	IRS-Assisted Physical Layer Network Coding Over Two-Way Relay Fading Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 8424-8440.	6.3	6
53	A Deep Learning Scheme for Integrated Active and Passive Beamforming in Reconfigurable Intelligent Surface Aided Wireless MISO Networks. , 2022, , .		0
54	On the Fundamental Characteristics of Intelligent Reflecting Surface Enabled MIMO Channels. IEEE Internet of Things Magazine, 2022, 5, 67-72.	2.6	0

#	ARTICLE	IF	CITATIONS
55	Enabling URLLC Applications Through Reconfigurable Intelligent Surfaces: Challenges and Potential. IEEE Internet of Things Magazine, 2022, 5, 130-135.	2.6	5
56	Reconfigurable intelligent surface assisted downlink INOMA system. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	3.9	0
57	RIS-Enabled SISO Localization Under User Mobility and Spatial-Wideband Effects. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 1125-1140.	10.8	24
58	Spatial Diversity in Radar Detection via Active Reconfigurable Intelligent Surfaces. IEEE Signal Processing Letters, 2022, 29, 1242-1246.	3.6	14
59	Circuit Characterization of IRS to Control Beamforming Design for Efficient Wireless Communication. , 2022, , .		1
60	Secure Transmission in RIS-Assisted Cell-free Massive MIMO system with Low Resolution ADCs/DACs. , 2022, , .		7
61	A State-of-the-Art Survey on Reconfigurable Intelligent Surface-Assisted Non-Orthogonal Multiple Access Networks. Proceedings of the IEEE, 2022, 110, 1358-1379.	21.3	55
62	RIS-Aided Joint Localization and Synchronization With a Single-Antenna Receiver: Beamforming Design and Low-Complexity Estimation. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 1141-1156.	10.8	30
63	Deep Reinforcement Learning for RIS-Aided Multiuser Full-Duplex Secure Communications With Hardware Impairments. IEEE Internet of Things Journal, 2022, 9, 21121-21135.	8.7	12
64	Impact of Phase-Noise and Spatial Correlation on Double-RIS-Assisted Multiuser MISO Networks. IEEE Wireless Communications Letters, 2022, 11, 1473-1477.	5.0	5
65	Energy-Efficient Design for IRS-Empowered Uplink MIMO-NOMA Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 9490-9500.	6.3	8
66	The Measurement-based Intelligent Reflecting Surfaces Path Loss Model. , 2022, , .		2
67	Artificial Rich Scattering-Assisted MIMO Systems Using Passive Backscatter Devices. , 2022, , .		1
68	Joint Node Activation, Beamforming and Phase-Shifting Control in IoT Sensor Network Assisted by Reconfigurable Intelligent Surface. IEEE Transactions on Wireless Communications, 2022, 21, 9325-9340.	9.2	2
69	Planning of EM Skins for Improved Quality-of-Service in Urban Areas. IEEE Transactions on Antennas and Propagation, 2022, 70, 8849-8862.	5.1	22
70	Transmit Power Optimization of Simultaneous Transmission and Reflection RIS Assisted Full-Duplex Communications. IEEE Access, 2022, 10, 61192-61200.	4.2	11
71	Multi-User Holographic MIMO Surfaces: Channel Modeling and Spectral Efficiency Analysis. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 1112-1124.	10.8	45
72	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

#	ARTICLE	IF	CITATIONS
73	Intelligent Reflecting Surface Aided Wireless Power Transfer With a DC-Combining Based Energy Receiver and Practical Waveforms. IEEE Transactions on Vehicular Technology, 2022, 71, 9751-9764.	6.3	4
74	Joint Hybrid 3D Beamforming Relying on Sensor-Based Training for Reconfigurable Intelligent Surface Aided TeraHertz-Based Multiuser Massive MIMO Systems. IEEE Sensors Journal, 2022, 22, 14540-14552.	4.7	9
75	Intelligent Reflecting Surfaces in UAV-Assisted 6G Networks: An Approach for Enhanced Propagation and Spectral Characteristics. , 2022, , .		3
76	Unlock Self-Sustainability of Reconfigurable Intelligent Surface in Wireless Powered IoT Networks. IEEE Communications Magazine, 2022, 60, 74-80.	6.1	8
77	Intelligent Reflecting Surfaces for Multi-Access Edge Computing in 6G Wireless Networks. , 2022, , .		3
78	Joint Spatial Division and Multiplexing for FDD in Intelligent Reflecting Surface-Assisted Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 10754-10769.	6.3	9
79	Intelligent Surface Aided D2D-V2X System for Low-Latency and High-Reliability Communications. IEEE Transactions on Vehicular Technology, 2022, 71, 11624-11636.	6.3	11
80	Reconfigurable Intelligent Surfaces: Channel Characterization and Modeling. Proceedings of the IEEE, 2022, 110, 1290-1311.	21.3	32
81	Performance Analysis of RIS Assisted RSMA Communication System. , 2022, , .		1
82	Multi-User Wireless Communications with Holographic MIMO Surfaces: A Convenient Channel Model and Spectral Efficiency Analysis. , 2022, , .		2
83	Performance analysis of IRSâ€Aided cooperative NOMAâ€MEC system. IET Communications, 2022, 16, 1934-1945.	2.2	3
84	Phase Shift Design in RIS Empowered Wireless Networks: From Optimization to AI-Based Methods. Network, 2022, 2, 398-418.	2.4	7
85	Positioning Information Based High-Speed Communications with Multiple RISs: Doppler Mitigation and Hardware Impairments. Applied Sciences (Switzerland), 2022, 12, 7076.	2.5	4
86	Optimal Active Elements Selection in RIS-Assisted Edge Networks for Improved QoS. , 2022, , .		1
87	Deep Reinforcement Learning for RIS-Aided Multiuser MISO System with Hardware Impairments. Applied Sciences (Switzerland), 2022, 12, 7236.	2.5	1
88	Uplink Multiple Access for Reconfigurable Intelligent Surface-Aided Wireless Systems. Wireless Communications and Mobile Computing, 2022, 2022, 1-14.	1.2	0
89	Simultaneously Transmitting and Reflecting Reconfigurable Intelligent Surface Assisted NOMA Networks. IEEE Transactions on Wireless Communications, 2023, 22, 189-204.	9.2	37
90	Beam- and Band-Width Broadening of Intelligent Reflecting Surfaces Using Elliptical Phase Distribution. IEEE Transactions on Antennas and Propagation, 2022, 70, 8825-8832.	5.1	2

#	ARTICLE	IF	CITATIONS
91	On the Impact of Hardware Impairments on RIS-aided Localization. , 2022, , .		5
92	Canonical Training is Bad for Reconfigurable Intelligent Surfaces. , 2022, , .		2
93	Novel Extended Kalman Filter Using Matrix-Based Levenberg-Marquardt Algorithm and Its Application for Variable Bit-Rate Video Frame-Size Prediction. , 2022, , .		1
94	Joint Beamforming Design for Sub-Connected Active Reconfigurable Intelligent Surface. , 2022, , .		1
95	Robust Beamforming Design for RIS-Aided NOMA Networks With Imperfect Channels. , 2022, , .		2
96	Performance Analysis of Uplink MISO Systems with RIS Selections and MRC/SC Configurations. , 2022, , .		2
97	AI-Enabled Intelligent Visible Light Communications: Challenges, Progress, and Future. Photonics, 2022, 9, 529.	2.0	16
98	Recent Progress in Reconfigurable and Intelligent Metasurfaces: A Comprehensive Review of Tuning Mechanisms, Hardware Designs, and Applications. Advanced Science, 2022, 9, .	11.2	29
99	Antenna Array Enabled Space/Air/Ground Communications and Networking for 6G. IEEE Journal on Selected Areas in Communications, 2022, 40, 2773-2804.	14.0	27
100	IRS-Aided Uplink Transmission Scheme in Integrated Satellite-Terrestrial Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 1847-1861.	6.3	7
101	NOMA Enhanced Hybrid RIS-UAV-Assisted Full-Duplex Communication System With Imperfect SIC and CSI. IEEE Transactions on Communications, 2022, 70, 7609-7627.	7.8	21
102	Practical Phase Shift Model for RIS-Assisted D2D Communication Systems. Communications in Computer and Information Science, 2022, , 156-170.	0.5	0
103	Exploiting Reconfigurable Intelligent Surface-Based Uplink/Downlink Wireless Systems. IEEE Access, 2022, 10, 91059-91072.	4.2	6
104	High-Data-Rate Long-Range Underwater Communications via Acoustic Reconfigurable Intelligent Surfaces. IEEE Communications Magazine, 2022, 60, 96-102.	6.1	6
105	Joint Beamforming Designs for Active Reconfigurable Intelligent Surface: A Sub-Connected Array Architecture. IEEE Transactions on Communications, 2022, 70, 7628-7643.	7.8	5
106	Sensing and Reconfigurable Reflection of Electromagnetic Waves From a Metasurface With Sparse Sensing Elements. IEEE Access, 2022, 10, 105954-105965.	4.2	7
107	Max-Min Rate Optimization for Uplink IRS-NOMA With Receive Beamforming. IEEE Wireless Communications Letters, 2022, 11, 2512-2516.	5.0	2
108	Performance Analysis and Optimization for RIS-Assisted Multi-User Massive MIMO Systems With Imperfect Hardware. IEEE Transactions on Vehicular Technology, 2022, 71, 11786-11802.	6.3	8

#	ARTICLE	IF	CITATIONS
109	Reconfigurable Intelligent Surface Relay: Lessons of the Past and Strategies for Its Success. IEEE Communications Magazine, 2022, 60, 117-123.	6.1	6
110	Intelligent Reconfigurable Surface-Aided Space-Time Line Code for 6G IoT Systems: A Low-Complexity Approach. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2022, , .	0.3	0
111	Joint Task Offloading and Resource Allocation for Cooperative Mobile-Edge Computing Under Sequential Task Dependency. IEEE Internet of Things Journal, 2022, 9, 24009-24029.	8.7	8
112	Secrecy Throughput Maximization for IRS-Aided MIMO Wireless Powered Communication Networks. IEEE Transactions on Communications, 2022, 70, 7520-7535.	7.8	5
113	Coverage impact of reconfigurable intelligent surfaces in 6G mobile networks. , 2022, , .		1
114	Physical-Layer Secure Wireless Transmission via Active Reconfigurable Intelligent Surfaces. , 2022, , .		1
115	A Versatile Polynomial Model for Reflection by a Reflective Intelligent Surface with Varactors. , 2022, , .		2
116	Outage Statistics of Hybrid Double-RIS System Assisted by Aerial AF-Relay for Multi-hop Communications. , 2022, , .		0
117	On the Secrecy Analysis of a RIS-aided Wireless Communication System Subject to Phase Quantization Errors. , 2022, , .		4
118	Analysis of Reconfigurable Intelligent Surface-Aided Wireless Communication: Potential Schemes, Standard Impact and Practical Challenges. , 2022, , .		0
119	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
120	Communication Models for Reconfigurable Intelligent Surfaces: From Surface Electromagnetics to Wireless Networks Optimization. Proceedings of the IEEE, 2022, 110, 1164-1209.	21.3	54
121	6G-Enabled Smart Agriculture: A Review and Prospect. Electronics (Switzerland), 2022, 11, 2845.	3.1	15
122	Intelligent Reflecting Surface-Based Non-LOS Human Activity Recognition for Next-Generation 6G-Enabled Healthcare System. Sensors, 2022, 22, 7175.	3.8	4
123	Boosting NOMA systems through smart metasurfaces. Frontiers in Communications and Networks, 0, 3, .	3.0	1
124	DOL-net. , 2022, , .		0
125	Multi-Pair D2D Communications Aided by an Active RIS Over Spatially Correlated Channels With Phase Noise. IEEE Wireless Communications Letters, 2022, 11, 2090-2094.	5.0	8
126	Channel Estimation for RIS-Aided Multi-User mmWave Systems With Uniform Planar Arrays. IEEE Transactions on Communications, 2022, 70, 8105-8122.	7.8	10



#	ARTICLE	IF	CITATIONS
127	Capacity Maximization in RIS-UAV Networks: A DDQN-Based Trajectory and Phase Shift Optimization Approach. IEEE Transactions on Wireless Communications, 2023, 22, 2583-2591.	9.2	24
128	P-RAN: A Distributed Solution for Cellular Systems in High Frequency Bands. IEEE Network, 2022, 36, 86-91.	6.9	6
129	Designing, building, and characterizing RF switch-based reconfigurable intelligent surfaces. , 2022, , .		8
130	WISCANet: A Rapid Development Platform for Beyond 5G and 6G Radio System Prototyping. Signals, 2022, 3, 682-707.	1.9	1
131	Accelerated PARAFAC-Based Channel Estimation for Reconfigurable Intelligent Surface-Assisted MISO Systems. Sensors, 2022, 22, 7463.	3.8	0
132	Two-timescale design for RIS-aided full-duplex MIMO systems with transceiver hardware impairments. IET Communications, 0, , .	2.2	0
133	A Novel Approach to Energy Efficiency Optimization in NOMA-Aided V2X Networks. , 2022, , .		1
134	Utility Maximization for IRS Assisted Wireless Powered Mobile Edge Computing and Caching (WP-MECC) Networks. IEEE Transactions on Communications, 2023, 71, 457-472.	7.8	9
135	Robust Transmission Design for RIS-Aided Wireless Communication With Both Imperfect CSI and Transceiver Hardware Impairments. IEEE Internet of Things Journal, 2023, 10, 4621-4635.	8.7	5
136	Metasurface Manipulation Attacks: Potential Security Threats of RIS-Aided 6G Communications. IEEE Communications Magazine, 2023, 61, 24-30.	6.1	5
137	Energy Efficient Resource Allocation for Uplink RIS-Aided Millimeter-Wave Networks With NOMA. IEEE Transactions on Mobile Computing, 2024, 23, 423-436.	5.8	0
138	Cooperative Hybrid Networks with Active Relays and RISs for B5G: Applications, Challenges, and Research Directions. IEEE Wireless Communications, 2024, 31, 126-132.	9.0	4
139	Spectral Efficiency Maximization for Double-Faced Active Reconfigurable Intelligent Surface. IEEE Transactions on Signal Processing, 2022, 70, 5397-5412.	5.3	1
140	Location Sensing and Beamforming Design for IRS-Enabled Multi-User ISAC Systems. IEEE Transactions on Signal Processing, 2022, 70, 5178-5193.	5.3	30
141	Joint Power Control and Phase Shift Design for Future PD-NOMA IRS-Assisted Drone Communications under Imperfect SIC Decoding. Sensors, 2022, 22, 8603.	3.8	0
142	IRS-assisted MISO System with Phase Noise: Channel Estimation and Power Scaling Laws. IEEE Transactions on Wireless Communications, 2022, , 1-1.	9.2	0
143	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
144	Computation Offloading Outage Probability Analysis and Min-Max Fairness Optimization in RIS-Assisted MEC System. IEEE Transactions on Vehicular Technology, 2023, 72, 4615-4627.	6.3	0

[illegible]

#	ARTICLE	IF	CITATIONS
163	RIS-Aided Near-Field Localization Under Phase-Dependent Amplitude Variations. IEEE Transactions on Wireless Communications, 2023, 22, 5550-5566.	9.2	3
164	Capacity Enhancement for Reconfigurable Intelligent Surface-Aided Wireless Network: From Regular Array to Irregular Array. IEEE Transactions on Vehicular Technology, 2023, 72, 6392-6403.	6.3	6
165	Exploiting the Direct Link in IRS Assisted NOMA Networks with Hardware Impairments. CMES - Computer Modeling in Engineering and Sciences, 2023, 136, 767-785.	1.1	0
166	New wireless architectures based on information metasurfaces. National Science Review, 2023, 10, .	9.5	1
167	Achievable rate as affected by active elements distribution in reconfigurable intelligent surfaces for wireless communication. PeerJ Computer Science, 0, 9, e1207.	4.5	0
168	Design of mmW Broad-Beam Reflecting Surface Using Grey Wolf Optimizer. , 2022, , .		0
169	Recent Trends in the Reconfigurable Intelligent Surfaces (RIS): Active RIS to Brain-controlled RIS. , 2022, , .		4
170	System-level Simulation of RIS assisted Wireless Communications System. , 2022, , .		0
171	Power Saving Design of Active Reconfigurable Intelligent Surfaceâ€•A Sub-Array Architecture. , 2022, , .		2
172	Energy efficiency of fullâ€•duplex communication system assisted by reconfigurable intelligent surface. IET Communications, 2023, 17, 478-488.	2.2	2
173	Sparse RIS in Multi User MIMO Wireless System. , 2022, , .		0
174	Spatial Multiplexing Optimization for RIS-assisted Wireless Communication using Practical Models. , 2022, , .		1
175	Modeling Reconfigurable Intelligent Surfaces-aided Directional Communications for Multicast Services. , 2022, , .		2
176	On the Achievable Rate of IRS-Assisted Multigroup Multicast Systems. , 2022, , .		1
177	Beamforming design for active RISâ€•aided NOMA networks. IET Communications, 2023, 17, 460-468.	2.2	2
178	STAR-RIS aided Full Duplex Communication System: Performance Analysis. , 2022, , .		5
179	Channel Estimation for RIS-Aided mmWave MIMO System from 1-Sparse Recovery Perspective. , 2022, , .		1
180	Joint Optimization of Active and Passive Beamforming in Multi-IRS Aided mmWave Communications. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
181	A Multihop Strategy for the Planning of EM Skins in a Smart Electromagnetic Environment. IEEE Transactions on Antennas and Propagation, 2023, 71, 2758-2767.	5.1	4
182	Deep Learning-Based Rate-Splitting Multiple Access for Reconfigurable Intelligent Surface-Aided Tera-Hertz Massive MIMO. IEEE Journal on Selected Areas in Communications, 2023, 41, 1431-1451.	14.0	7
183	Energy Minimization for IRS-assisted UAV-empowered Wireless Communications. , 2022, , .		0
184	6G Wireless Networks: Vision, Requirements, Applications and Challenges. , 2022, , .		4
185	Semi-Blind Joint Channel and Symbol Estimation for IRS-Assisted MIMO Systems. IEEE Transactions on Signal Processing, 2023, 71, 1184-1199.	5.3	1
186	Wireless Beacon Enabled Hybrid Sparse Channel Estimation for RIS-Aided mmWave Communications. IEEE Transactions on Communications, 2023, 71, 3144-3160.	7.8	2
187	On the Road to 6G: Visions, Requirements, Key Technologies, and Testbeds. IEEE Communications Surveys and Tutorials, 2023, 25, 905-974.	39.4	151
188	Passive Type Reconfigurable Intelligent Surface: Measurement of Radiation Patterns. Micromachines, 2023, 14, 818.	2.9	0
189	RIS Assisted Multiple User Interference Mitigation via an Accelerated Coordinate Descent Method. IEEE Transactions on Cognitive Communications and Networking, 2023, 9, 159-169.	7.9	1
190	Deep-Reinforcement-Learning-Driven Secrecy Design for Intelligent-Reflecting-Surface-Based 6G-IoT Networks. IEEE Internet of Things Journal, 2023, 10, 8812-8824.	8.7	4
191	Resonant Beam SWIPT With Telescope and Second Harmonic. IEEE Transactions on Wireless Communications, 2023, 22, 4962-4973.	9.2	0
192	Comprehensive review on ML-based RIS-enhanced IoT systems: basics, research progress and future challenges. Computer Networks, 2023, 224, 109581.	5.1	22
193	Joint Sensing and Transmission Optimization for IRS-Assisted Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2023, 22, 5941-5956.	9.2	8
194	Active Reconfigurable Intelligent Surface Aided Communication with Partial CSI. , 2022, , .		1
195	On the Performance of STAR-RIS-Aided NOMA at Finite Blocklength. IEEE Wireless Communications Letters, 2023, 12, 868-872.	5.0	1
196	Joint Location and Beamforming Design for STAR-RIS Assisted NOMA Systems. IEEE Transactions on Communications, 2023, 71, 2532-2546.	7.8	7
197	Distributed RISs-Aided Secure Wireless Network Under Practical Phase Shift Model: A Deep Reinforcement Learning Approach. , 2022, , .		0
198	Robust Beamforming for IRS-Aided Multi-Cell mmWave Communication Systems. IEEE Transactions on Vehicular Technology, 2023, 72, 9189-9205.	6.3	0

#	ARTICLE	IF	CITATIONS
199	Liquid crystal based reflectarray for reconfigurable intelligent surface applications. IEICE Communications Express, 2023, 12, 265-270.	0.4	0
200	Performance Analysis of RIS-Assisted Large-Scale Wireless Networks Using Stochastic Geometry. IEEE Transactions on Wireless Communications, 2023, 22, 7438-7451.	9.2	3
201	Joint Transceiving and Reflecting Design for Intelligent Reflecting Surface Aided Wireless Power Transfer. IEEE Transactions on Wireless Communications, 2023, 22, 7478-7491.	9.2	1
202	Robust Transmission Design for RIS-Assisted Secure Multiuser Communication Systems in the Presence of Hardware Impairments. IEEE Transactions on Wireless Communications, 2023, 22, 7506-7521.	9.2	4
203	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
204	The PEB and OEB Analysis of mmWave Positioning System Aided by Multiple RISs. , 2022, , .		0
205	Considerations on Potential Standardization Work for Reconfigurable Intelligent Surface. , 2022, , .		1
206	RIS-assisted User Pairing NOMA System for THz Communications. , 2023, , .		0
207	RIS-aided System Channel Estimation using NN. , 2022, , .		0
208	A varactor-based 1024-element RIS design for mm-waves. Frontiers in Communications and Networks, 0, 4, .	3.0	2
209	Review Paper on Hardware of Reconfigurable Intelligent Surfaces. IEEE Access, 2023, 11, 29614-29634.	4.2	19
210	Reconfigurable Intelligent Surface Assisted Communications Using Dynamic Rotations. , 2022, , .		0
211	How to Deploy RIS to Minimize Delay Spread in HST Communications: Railroad Side, or Train Side?. , 2022, , .		1
212	Robust Beamforming Design for IRS-Assisted Downlink Multi-User MISO-URLLC in an IIoT Scenario. Electronics (Switzerland), 2023, 12, 1696.	3.1	0
213	Joint Direct and Indirect Channel Estimation for RIS-Assisted Millimeter-Wave Systems Based on Array Signal Processing. IEEE Transactions on Wireless Communications, 2023, 22, 8378-8391.	9.2	2
214	Energy Optimization for IRS-Aided SWIPT Under Imperfect Cascaded Channels. IEEE Transactions on Vehicular Technology, 2023, 72, 11631-11643.	6.3	1
215	Robust Secure Transmission for Active RIS Enabled Symbiotic Radio Multicast Communications. IEEE Transactions on Wireless Communications, 2023, 22, 8766-8780.	9.2	3
216	UAV Trajectory and Energy Efficiency Optimization in RIS-Assisted Multi-User Air-to-Ground Communications Networks. Drones, 2023, 7, 272.	4.9	4

#	ARTICLE	IF	CITATIONS
217	Secrecy Outage Probability Analysis for Downlink RIS-NOMA Networks With On-Off Control. IEEE Transactions on Vehicular Technology, 2023, 72, 11772-11786.	6.3	6
218	The optimal energy-efficient design of user-specific RIS-aided uplink communication system. Physical Communication, 2023, 59, 102082.	2.1	0
219	Joint Precoding and Phase Shift Design in Reconfigurable Intelligent Surfaces-Assisted Secret Key Generation. IEEE Transactions on Information Forensics and Security, 2023, 18, 3251-3266.	6.9	6
220	Spectral Efficiency Optimization for an Intelligent Reflecting Surface-Assisted Bistatic MIMO Radar. Lecture Notes in Electrical Engineering, 2023, , 261-270.	0.4	0
221	Wireless Communications beyond Antennas: The Role of Reconfigurable Intelligent Surfaces. , 0, , .		0
222	A Generative Adversarial Network Approach to Reflectarray Pattern Synthesis. , 2023, , .		0
223	A Framework for Transmission Design for Active RIS-Aided Communication With Partial CSI. IEEE Transactions on Wireless Communications, 2024, 23, 305-320.	9.2	0
224	Reconfigurable intelligent surface with 6G for industrial revolution: Potential applications and research challenges. Paladyn, 2023, 14, .	2.7	2
225	Double-Sided Beamforming in VLC Systems Using Omni-Digital Reconfigurable Intelligent Surfaces. IEEE Communications Magazine, 2024, 62, 150-155.	6.1	2
226	Automatic Pipeline Parallelism: A Parallel Inference Framework for Deep Learning Applications in 6G Mobile Communication Systems. IEEE Journal on Selected Areas in Communications, 2023, 41, 2041-2056.	14.0	2
227	Space-Time-Coding Digital Metasurfaces for Advanced Field Manipulations. , 2023, , .		0
228	Interferenceless coexistence of <sc>6G</sc> networks and scientific instruments in the <sc>K</sc>aâ€band. Expert Systems, 0, , .	4.5	2
229	Location-Aware Beam Training and Multi-Dimensional ANM-Based Channel Estimation for RIS-Aided mmWave Systems. IEEE Transactions on Wireless Communications, 2024, 23, 652-666.	9.2	1
230	Localization of Transmitters and Scatterers by Single Receiver. IEEE Transactions on Signal Processing, 2023, 71, 2267-2282.	5.3	1
231	A Survey on Handover Optimization in Beyond 5G Mobile Networks: Challenges and Solutions. IEEE Access, 2023, 11, 59317-59345.	4.2	4
232	Robust Beamforming Design for an IRS-Aided NOMA Communication System With CSI Uncertainty. IEEE Transactions on Wireless Communications, 2024, 23, 874-889.	9.2	1
233	Estimation of Dispersive High-Doppler Channels in the RIS-Aided mmWave Internet of Vehicles. IEEE Internet of Things Journal, 2024, 11, 677-691.	8.7	2
234	Design of Anomalous Reflectors by Phase Gradient Unit Cell-Based Digitally Coded Metasurface. IEEE Antennas and Wireless Propagation Letters, 2023, 22, 2305-2309.	4.0	1

#	ARTICLE	IF	CITATIONS
235	RIS-Assisted Grant-Free NOMA: User Pairing, RIS Assignment, and Phase Shift Alignment. IEEE Transactions on Cognitive Communications and Networking, 2023, 9, 1257-1270.	7.9	1
236	Detecting Angle of Arrival on a Hybrid RIS Using Intensity Only Data. IEEE Antennas and Wireless Propagation Letters, 2023, , 1-5.	4.0	1
237	Clutter Suppression for Target Detection Using Hybrid Reconfigurable Intelligent Surfaces. , 2023, , .		0
238	From Liquid Crystal on Silicon and Liquid Crystal Reflectarray to Reconfigurable Intelligent Surfaces for Post-5G Networks. Applied Sciences (Switzerland), 2023, 13, 7407.	2.5	4
239	Outage and DMT Analysis of Partition-Based Schemes for RIS-Aided MIMO Fading Channels. IEEE Journal on Selected Areas in Communications, 2023, 41, 2336-2349.	14.0	2
240	Robust Beamforming Optimization Design for RIS-Aided MIMO Systems With Practical Phase Shift Model and Imperfect CSI. IEEE Internet of Things Journal, 2024, 11, 958-973.	8.7	0
241	Beampattern design for radars with reconfigurable intelligent surfaces. , 2023, , .		0
242	RIS-Assisted High-Speed Railway Integrated Sensing and Communication System. IEEE Transactions on Vehicular Technology, 2023, 72, 15681-15692.	6.3	1
243	Digital forensics challenges and readiness for <scp>6G Internet of Things (IoT)</scp> networks. Wiley Interdisciplinary Reviews Forensic Science, 2023, 5, .	2.1	2
244	Effects of Realistic Reradiation Models in Digital Reconfigurable Intelligent Surfaces. , 2023, , .		0
245	Reconfigurable intelligent surface with high optical-transparency based on metalmesh. , 2023, 1, 228-237.		1
246	An Architecture for AoI and Cache Hybrid Multicast/Unicast/D2D With Cell-Free Massive MIMO Systems. IEEE Access, 2023, 11, 43080-43088.	4.2	2
247	A Flexible Design for Active Reconfigurable Intelligent Surfaceâ€”A Sub-Array Architecture. IEEE Transactions on Vehicular Technology, 2023, 72, 12884-12899.	6.3	1
248	Hybrid Ris-Assisted Interference Mitigation for Spectrum Sharing. , 2023, , .		1
249	An Equivalent Model for Handover Probability Analysis of IRS-Aided Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 13770-13774.	6.3	1
250	Performance Analysis of NOMA-RIS Aided Integrated Navigation and Communication (INAC) Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 13255-13268.	6.3	1
251	Smart Radio Environments with Intelligent Reflecting Surfaces for 6G Sub-Terahertz-Band Communications. IEICE Transactions on Communications, 2023, E106.B, 735-747.	0.7	1
252	Low-Overhead Beam Training Scheme for Extremely Large-Scale RIS in Near Field. IEEE Transactions on Communications, 2023, 71, 4924-4940.	7.8	2



#	ARTICLE	IF	CITATIONS
254	D-Band RIS as a Reflect Array: Characterization and Hardware Impairments Study. , 2023, , .		0
255	RIS-Assisted Full-Duplex Space Shift Keying: System Scheme and Performance Analysis. IEEE Transactions on Green Communications and Networking, 2023, 7, 1981-1995.	5.5	4
256	Securing NextG Networks with Physical-Layer Key Generation: A Survey. , 0, , .		0
257	Error Rate Analysis of NOMA: Principles, Survey and Future Directions. IEEE Open Journal of the Communications Society, 2023, 4, 1682-1727.	6.9	3
258	RIS Energy Efficiency Optimization with Practical Power Models. , 2023, , .		1
259	A Discrete Passive Beamforming Technique for an IRS-aided MISO System with Imperfect CSI. , 2023, , .		0
260	Wireless Communication Channel Management for 6G Networks Applying Reconfigurable Intelligent Surface. Lecture Notes in Electrical Engineering, 2023, , 817-829.	0.4	0
261	Artificial Noise Aided Secure Transmission for Active RIS-Aided NOMA Networks. IEEE Access, 2023, 11, 78111-78118.	4.2	0
262	Quantum-Assisted Combinatorial Optimization for Reconfigurable Intelligent Surfaces in Smart Electromagnetic Environments. IEEE Transactions on Antennas and Propagation, 2024, 72, 147-159.	5.1	1
263	Electrically Actuated Liquid-Metal Unit Cell for an Intelligent Reflecting Surface. , 2023, , .		0
264	Multi-Tag Selection for IRS-Assisted Ambient Backscatter Communication Networks. , 2023, , .		0
265	A Hybrid Classical-Quantum Computing Framework for RIS-assisted Wireless Network. , 2023, , .		0
266	Metasurface-enabled smart wireless attacks at the physical layer. Nature Electronics, 2023, 6, 610-618.	26.0	4
268	Multi-Objective Optimization of URLLC-Based Metaverse Services. IEEE Transactions on Communications, 2023, 71, 6745-6761.	7.8	0
269	RIS-Aided Physical Layer Security Improvement in Underlay Cognitive Radio Networks. IEEE Systems Journal, 2023, , 1-12.	4.6	3
270	Sensing Aided Reconfigurable Intelligent Surfaces for 3GPP 5G Transparent Operation. IEEE Transactions on Communications, 2023, 71, 6348-6362.	7.8	2
271	Channel reconfiguration for intelligent reflecting surface-aided vehicular networks. Transactions on Emerging Telecommunications Technologies, 2023, 34, .	3.9	0
272	Pilot-Aided Channel Estimation for RIS-Assisted Wireless Systems over Time-Varying Fading Channels. , 2023, , .		0



#	ARTICLE	IF	CITATIONS
273	Sum-Rate Maximization for Active RIS-Aided Downlink RSMA System. , 2023, , .		1
274	DBPN Based Uplink Channel Estimation for Multi-User MISO RIS System. IEEE Wireless Communications Letters, 2023, , 1-1.	5.0	0
275	Continuous beam steering with a varactor-based reconfigurable intelligent surface in the Ka-band at 31â€‰%GHz. Journal of Applied Physics, 2023, 134, .	2.5	1
276	Compressed channel estimation for RIS-assisted wireless systems: An efficient sparse recovery algorithm. Physical Communication, 2023, 60, 102153.	2.1	0
278	Full-Wave Simulation of a 10,000-Element Reconfigurable Intelligent Surface with a Single Workstation Computer. , 2023, , .		0
279	A Fast and Efficient Codebook-Based RIS Phase Configuration Method. , 2023, , .		0
280	On the Effect of RIS Phase Quantization on Communications System Performances. , 2023, , .		0
281	Sensing-Based Beamforming Design for Joint Performance Enhancement of RIS-Aided ISAC Systems. IEEE Transactions on Communications, 2023, 71, 6529-6545.	7.8	1
282	Active-Passive Beamforming With Imperfect CSI for IRS-Assisted Sensing System. IEEE Signal Processing Letters, 2023, 30, 1052-1056.	3.6	0
283	Reconfigurable Intelligent Surface-Aided Secret Key Generation in Multi-Cell Systems. IEEE Transactions on Communications, 2023, 71, 6499-6513.	7.8	1
284	Hybrid Amplitude and Phase Coding for Intelligent Reflecting Surface Aided Channel Estimation. , 2023, , .		0
285	Design and Measurement of a Subarray Element Reconfigurable Intelligent Surface. IEEE Transactions on Antennas and Propagation, 2023, 71, 8040-8047.	5.1	1
286	Integrated Sensing and Communications With Reconfigurable Intelligent Surfaces: From signal modeling to processing. IEEE Signal Processing Magazine, 2023, 40, 41-62.	5.6	4
287	Multipurpose Reconfigurable Reflectarray Antennas for Dual-Polarization Control. , 2023, , .		0
288	Aol and Data Rate Optimization in Aerial IRS-Assisted IoT Networks. IEEE Internet of Things Journal, 2024, 11, 6481-6493.	8.7	0
289	To Reflect or Not to Reflect: Onâ€™Off Control and Number Configuration for Reflecting Elements in RIS-Aided Wireless Systems. IEEE Transactions on Communications, 2023, 71, 7409-7424.	7.8	0
290	On the Mutual Information of Multi-RIS Assisted MIMO: From Operator-Valued Free Probability Aspect. IEEE Transactions on Communications, 2023, , 1-1.	7.8	0
291	DOA Estimation for RIS Assisted Multi-User Wireless Communication System with Squared-Sine Error Criterion and Lawson Norm Constraint. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
292	Two-Stage Channel Estimation for RIS-Aided Multiuser mmWave Systems With Reduced Error Propagation and Pilot Overhead. IEEE Transactions on Signal Processing, 2023, 71, 3607-3622.	5.3	0
293	Models, Methods, and Solutions for Multicasting in 5G/6G mmWave and Sub-THz Systems. IEEE Communications Surveys and Tutorials, 2024, 26, 119-159.	39.4	1
294	I Beg to Diffract: RF Field Programming With Edges. , 2023, , .		0
295	A Time-Domain Model of Reconfigurable Intelligent Surfaces Through the Fast Inversion of the Laplace Transform. , 2023, , .		0
296	IRS-Aided Covert Wireless Communications with Delay Constraint. Wireless Networks, 2023, , 123-156.	0.5	0
297	A New Unit-Cell Design for a 2-Bit Reflective Metasurface for RIS Applications. Electronics (Switzerland), 2023, 12, 4220.	3.1	0
298	Fluid-infiltrated on-axis ultra-compact reconfigurable intelligent surface for application of free-space optical communication. , 2023, , .		0
299	Multi-Functional Reconfigurable Intelligent Surfaces for Enhanced Sensing and Communication. Sensors, 2023, 23, 8561.	3.8	0
300	Connectivity in the era of the (I)IoT: about security, features and limiting factors of reconfigurable intelligent surfaces. Discover Internet of Things, 2023, 3, .	4.8	1
301	Camera Aided Reconfigurable Intelligent Surfaces: Computer Vision Based Fast Beam Selection. , 2023, , .		1
302	Robust Reflective Beamforming for Aerial Reconfigurable Intelligent Surface. , 2023, , .		0
303	Active-Passive Cascaded RIS-Assisted Receiver Design for Anti-Jamming Communications. , 2023, , .		0
304	Near-Optimal LOS and Orientation Aware Intelligent Reflecting Surface Placement. , 2023, , .		1
305	Joint Trajectory, Sensing and Transmission Design for IRS-Assisted Cognitive UAV Systems. IEEE Wireless Communications Letters, 2023, , 1-1.	5.0	0
306	Estimation of Correlated Channels in Reconfigurable Intelligent Surfaces-Enabled 6G Networks. , 2023, , .		0
307	Impact of Pilot Contamination Between Operators With Interfering Reconfigurable Intelligent Surfaces. , 2023, , .		0
308	Location-Based Downlink Transmission Scheme for IRS-Aided Integrated Satellite-Terrestrial Networks. IEEE Transactions on Communications, 2024, 72, 1090-1104.	7.8	0
309	The journey from 5G towards 6G. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
310	Joint Devices and IRSs Association for Terahertz Communications in Industrial IoT Networks. IEEE Transactions on Green Communications and Networking, 2024, 8, 375-390.	5.5	1
311	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
312	Connectivity of Wireless Networks Assisted by Transmissive Reconfigurable Intelligent Surfaces. , 2023, , .		0
313	Double-RIS Aided Secure Wireless Communication System with Robust Design. , 2023, , .		0
314	Unlocking the Power of Reconfigurable Intelligent Surfaces: From Wireless Communication to Energy Efficiency and Beyond. Applied Sciences (Switzerland), 2023, 13, 11750.	2.5	0
315	An Adaptive Channel Selection Scheme for Anti-Jamming Radio Communications. , 2023, , .		0
316	Intelligent Reflecting Surface-Assisted Dual-Function Radar-Communication System. IEEE Access, 2023, 11, 138020-138032.	4.2	0
317	Active STAR-RIS Assisted Wireless Information and Power Transfer Systems. , 2023, , .		0
318	Improving the Transmission Power of UAVs with Intelligent Reflecting Surfaces in V2X. , 2023, , .		0
319	Resource Allocation for Co-existence of eMBB and URLLC Services in 6G Wireless Networks: A Survey. IEEE Access, 2023, , 1-1.	4.2	0
320	Robust transmission for multi-user OFDM-based IRS-assisted cognitive radio networks. , 2024, 145, 104348.		0
321	Multi-User beamforming with a reconfigurable intelligent surface using stereo camera images. Electronics Letters, 2023, 59, .	1.0	0
322	Systematic review of the reconfigurable intelligent surfaces through wireless communication. AIP Conference Proceedings, 2023, , .	0.4	0
323	Statistically Optimal Beamforming and Ergodic Capacity for RIS-Aided MISO Systems. IEEE Access, 2024, 12, 10699-10717.	4.2	0
324	CNN based Sparse IRS Design for Channel Estimation in Assisted Uplink Communications. , 2023, , .		0
325	Ergodic Performance Analysis of Reconfigurable Intelligent Surface Enabled Bidirectional NOMA. , 2023, , .		0
326	A liquid crystal-based multi-bit terahertz reconfigurable intelligent surface. APL Photonics, 2024, 9, .	5.7	1
327	Continuous Asymmetric Beam Steering with a Reconfigurable Intelligent Surface in the K <sub>a</sub> -Band at 31 GHz. , 2023, , .		0

329	A Survey of NOMA-Aided Cell-Free Massive MIMO Systems. <i>Electronics</i> (Switzerland), 2024, 13, 231.	3.1	1
-----	---	-----	---

#	ARTICLE	IF	CITATIONS
346	Robust beamforming design for energy harvesting efficiency maximization in RIS-aided SWIPT system. Digital Communications and Networks, 2024, , .	5.0	0
347	Transmission Power Allocation of RIS-Aided Cell-Free mMIMO for Downlink URLLC Service. , 2023, , .		0
348	Enhanced Reconfigurable Intelligent Surface-Aided Amplitude Phase Shift Keying. , 2023, , .		0
349	Trajectory Optimization and Beamforming Design for NOMA-enabled Multi-Objective RIS-aided IS-UAV-TNs with Deep Reinforcement Learning. , 2023, , .		0
350	Near-Field Engineering in RIS-Aided Links: Beamfocusing Analytical Performance Assessment. IEEE Access, 2024, 12, 29536-29546.	4.2	0
351	RIS-assisted near-field localization using practical phase shift model. Scientific Reports, 2024, 14, .	3.3	0
352	Sum-Rate Maximization Scheme for Multi-RIS-Assisted NOMA Uplink Systems. Electronics (Switzerland), 2024, 13, 969.	3.1	0
353	Overview of RIS-enabled secure transmission in 6G wireless networks. Digital Communications and Networks, 2024, , .	5.0	0
354	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