

Zhu Han

List of Publications by Year in descending order

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1,009
papers

42,589
citations

4146

87
h-index

5679

162
g-index

1024
all docs

1024
docs citations

1024
times ranked

21348
citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless Networks With RF Energy Harvesting: A Contemporary Survey. IEEE Communications Surveys and Tutorials, 2015, 17, 757-789.	39.4	2,022
2	Improving Wireless Physical Layer Security via Cooperating Relays. IEEE Transactions on Signal Processing, 2010, 58, 1875-1888.	5.3	1,377
3	Machine Learning Paradigms for Next-Generation Wireless Networks. IEEE Wireless Communications, 2017, 24, 98-105.	9.0	822
4	Coalitional game theory for communication networks. IEEE Signal Processing Magazine, 2009, 26, 77-97.	5.6	805
5	Wireless Charging Technologies: Fundamentals, Standards, and Network Applications. IEEE Communications Surveys and Tutorials, 2016, 18, 1413-1452.	39.4	745
6	Game-Theoretic Methods for the Smart Grid: An Overview of Microgrid Systems, Demand-Side Management, and Smart Grid Communications. IEEE Signal Processing Magazine, 2012, 29, 86-105.	5.6	698
7	Matching theory for future wireless networks: fundamentals and applications. , 2015, 53, 52-59.		455
8	Fair multiuser channel allocation for OFDMA networks using Nash bargaining solutions and coalitions. IEEE Transactions on Communications, 2005, 53, 1366-1376.	7.8	452
9	When Mobile Blockchain Meets Edge Computing. IEEE Communications Magazine, 2018, 56, 33-39.	6.1	448
10	Efficiency Resource Allocation for Device-to-Device Underlay Communication Systems: A Reverse Iterative Combinatorial Auction Based Approach. IEEE Journal on Selected Areas in Communications, 2013, 31, 348-358.	14.0	405
11	Reconfigurable Intelligent Surfaces for Wireless Communications: Principles, Challenges, and Opportunities. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 990-1002.	7.9	389
12	Detecting Stealthy False Data Injection Using Machine Learning in Smart Grid. IEEE Systems Journal, 2017, 11, 1644-1652.	4.6	387
13	A Game-Theoretic Approach to Energy Trading in the Smart Grid. IEEE Transactions on Smart Grid, 2014, 5, 1439-1450.	9.0	369
14	Distributed Relay Selection and Power Control for Multiuser Cooperative Communication Networks Using Stackelberg Game. IEEE Transactions on Mobile Computing, 2009, 8, 975-990.	5.8	360
15	Detecting False Data Injection Attacks on Power Grid by Sparse Optimization. IEEE Transactions on Smart Grid, 2014, 5, 612-621.	9.0	352
16	Taking Drones to the Next Level: Cooperative Distributed Unmanned-Aerial-Vehicular Networks for Small and Mini Drones. IEEE Vehicular Technology Magazine, 2017, 12, 73-82.	3.4	343
17	Dynamics of Multiple-Seller and Multiple-Buyer Spectrum Trading in Cognitive Radio Networks: A Game-Theoretic Modeling Approach. IEEE Transactions on Mobile Computing, 2009, 8, 1009-1022.	5.8	321
18	A Deep Reinforcement Learning Network for Traffic Light Cycle Control. IEEE Transactions on Vehicular Technology, 2019, 68, 1243-1253.	6.3	318

#	ARTICLE	IF	CITATIONS
19	Hybrid Beamforming for Reconfigurable Intelligent Surface based Multi-User Communications: Achievable Rates With Limited Discrete Phase Shifts. IEEE Journal on Selected Areas in Communications, 2020, 38, 1809-1822.	14.0	318
20	Federated Learning for Internet of Things: Recent Advances, Taxonomy, and Open Challenges. IEEE Communications Surveys and Tutorials, 2021, 23, 1759-1799.	39.4	290
21	Computing Resource Allocation in Three-Tier IoT Fog Networks: A Joint Optimization Approach Combining Stackelberg Game and Matching. IEEE Internet of Things Journal, 2017, 4, 1204-1215.	8.7	282
22	Joint Relay and Jammer Selection for Secure Two-Way Relay Networks. IEEE Transactions on Information Forensics and Security, 2012, 7, 310-320.	6.9	254
23	Federated Learning for Edge Networks: Resource Optimization and Incentive Mechanism. IEEE Communications Magazine, 2020, 58, 88-93.	6.1	252
24	Data Collection and Wireless Communication in Internet of Things (IoT) Using Economic Analysis and Pricing Models: A Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 2546-2590.	39.4	248
25	Auction-Based Resource Allocation for Cooperative Communications. IEEE Journal on Selected Areas in Communications, 2008, 26, 1226-1237.	14.0	244
26	Optimization of MANET connectivity via smart deployment/movement of unmanned air vehicles. IEEE Transactions on Vehicular Technology, 2009, 58, 3533-3546.	6.3	240
27	Stochastic Pre-hurricane Restoration Planning for Electric Power Systems Infrastructure. IEEE Transactions on Smart Grid, 2015, 6, 1046-1054.	9.0	236
28	Cloud/Fog Computing Resource Management and Pricing for Blockchain Networks. IEEE Internet of Things Journal, 2019, 6, 4585-4600.	8.7	234
29	Reconfigurable Intelligent Surfaces Assisted Communications With Limited Phase Shifts: How Many Phase Shifts Are Enough?. IEEE Transactions on Vehicular Technology, 2020, 69, 4498-4502.	6.3	232
30	Charging Scheduling of Electric Vehicles With Local Renewable Energy Under Uncertain Electric Vehicle Arrival and Grid Power Price. IEEE Transactions on Vehicular Technology, 2014, 63, 2600-2612.	6.3	228
31	Joint Optimization of Caching, Computing, and Radio Resources for Fog-Enabled IoT Using Natural Actor-Critic Deep Reinforcement Learning. IEEE Internet of Things Journal, 2019, 6, 2061-2073.	8.7	227
32	User Scheduling and Resource Allocation in HetNets With Hybrid Energy Supply: An Actor-Critic Reinforcement Learning Approach. IEEE Transactions on Wireless Communications, 2018, 17, 680-692.	9.2	226
33	Contract-Based Incentive Mechanisms for Device-to-Device Communications in Cellular Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2144-2155.	14.0	219
34	A distributed coalition formation framework for fair user cooperation in wireless networks. IEEE Transactions on Wireless Communications, 2009, 8, 4580-4593.	9.2	214
35	A Hierarchical Game Framework for Resource Management in Fog Computing. IEEE Communications Magazine, 2017, 55, 52-57.	6.1	211
36	Federated Learning in Vehicular Edge Computing: A Selective Model Aggregation Approach. IEEE Access, 2020, 8, 23920-23935.	4.2	208

#	ARTICLE	IF	CITATIONS
37	Coalitional Game Theory for Cooperative Micro-Grid Distribution Networks. , 2011, , .		197
38	6G Wireless Systems: A Vision, Architectural Elements, and Future Directions. IEEE Access, 2020, 8, 147029-147044.	4.2	193
39	Coordinated Data-Injection Attack and Detection in the Smart Grid: A Detailed Look at Enriching Detection Solutions. IEEE Signal Processing Magazine, 2012, 29, 106-115.	5.6	187
40	Joint Communication, Computation, Caching, and Control in Big Data Multi-Access Edge Computing. IEEE Transactions on Mobile Computing, 2020, 19, 1359-1374.	5.8	184
41	Byzantine Attack and Defense in Cognitive Radio Networks: A Survey. IEEE Communications Surveys and Tutorials, 2015, 17, 1342-1363.	39.4	183
42	Incentive Mechanism for Demand Side Management in Smart Grid Using Auction. IEEE Transactions on Smart Grid, 2014, 5, 1379-1388.	9.0	177
43	Resource Management in Cloud Networking Using Economic Analysis and Pricing Models: A Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 954-1001.	39.4	175
44	Coalitional Games for Resource Allocation in the Device-to-Device Uplink Underlying Cellular Networks. IEEE Transactions on Wireless Communications, 2014, 13, 3965-3977.	9.2	169
45	Energy-Efficient Resource Allocation for Device-to-Device Underlay Communication. IEEE Transactions on Wireless Communications, 2015, 14, 2082-2092.	9.2	164
46	Digital-Twin-Enabled 6G: Vision, Architectural Trends, and Future Directions. IEEE Communications Magazine, 2022, 60, 74-80.	6.1	161
47	Spectrum Allocation and Power Control for Non-Orthogonal Multiple Access in HetNets. IEEE Transactions on Wireless Communications, 2017, 16, 5825-5837.	9.2	160
48	V2X Meets NOMA: Non-Orthogonal Multiple Access for 5G-Enabled Vehicular Networks. IEEE Wireless Communications, 2017, 24, 14-21.	9.0	150
49	Interference-aware resource allocation for device-to-device communications as an underlay using sequential second price auction. , 2012, , .		144
50	Reconfigurable Intelligent Surface (RIS) Assisted Wireless Coverage Extension: RIS Orientation and Location Optimization. IEEE Communications Letters, 2021, 25, 269-273.	4.1	144
51	Spectrum Sharing Planning for Full-Duplex UAV Relaying Systems With Underlaid D2D Communications. IEEE Journal on Selected Areas in Communications, 2018, 36, 1986-1999.	14.0	142
52	Distributed Demand Side Management with Energy Storage in Smart Grid. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 3346-3357.	5.6	141
53	Collaborative Spectrum Sensing from Sparse Observations in Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2011, 29, 327-337.	14.0	138
54	A Survey of Optimization Approaches for Wireless Physical Layer Security. IEEE Communications Surveys and Tutorials, 2019, 21, 1878-1911.	39.4	138

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55	Coalition Formation Games for Distributed Cooperation Among Roadside Units in Vehicular Networks. IEEE Journal on Selected Areas in Communications, 2011, 29, 48-60.	14.0	137
56	Real-Time Detection of False Data Injection in Smart Grid Networks: An Adaptive CUSUM Method and Analysis. IEEE Systems Journal, 2016, 10, 532-543.	4.6	135
57	Low-Complexity and High-Resolution DOA Estimation for Hybrid Analog and Digital Massive MIMO Receive Array. IEEE Transactions on Communications, 2018, 66, 2487-2501.	7.8	134
58	Caching based socially-aware D2D communications in wireless content delivery networks: a hypergraph framework. IEEE Wireless Communications, 2016, 23, 74-81.	9.0	133
59	Joint Radio and Computational Resource Allocation in IoT Fog Computing. IEEE Transactions on Vehicular Technology, 2018, 67, 7475-7484.	6.3	132
60	Distributed Relay Selection and Power Control for Multiuser Cooperative Communication Networks Using Buyer/Seller Game. , 2007, , .		131
61	Coalition games with cooperative transmission: a cure for the curse of boundary nodes in selfish packet-forwarding wireless networks. IEEE Transactions on Communications, 2009, 57, 203-213.	7.8	127
62	Matching Theory: Applications in wireless communications. IEEE Signal Processing Magazine, 2016, 33, 103-122.	5.6	126
63	Real-Time Profiling of Fine-Grained Air Quality Index Distribution Using UAV Sensing. IEEE Internet of Things Journal, 2018, 5, 186-198.	8.7	125
64	Demand side management to reduce Peak-to-Average Ratio using game theory in smart grid. , 2012, , .		124
65	PHY-Layer Authentication With Multiple Landmarks With Reduced Overhead. IEEE Transactions on Wireless Communications, 2018, 17, 1676-1687.	9.2	123
66	UAV-Enabled Secure Communications by Multi-Agent Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2020, 69, 11599-11611.	6.3	121
67	Network Slicing: Recent Advances, Taxonomy, Requirements, and Open Research Challenges. IEEE Access, 2020, 8, 36009-36028.	4.2	121
68	Computation Offloading With Data Caching Enhancement for Mobile Edge Computing. IEEE Transactions on Vehicular Technology, 2018, 67, 11098-11112.	6.3	119
69	Catch Me if You Can: An Abnormality Detection Approach for Collaborative Spectrum Sensing in Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2010, 9, 3554-3565.	9.2	116
70	Computation Offloading in LEO Satellite Networks With Hybrid Cloud and Edge Computing. IEEE Internet of Things Journal, 2021, 8, 9164-9176.	8.7	116
71	Reconfigurable Intelligent Surface Based RF Sensing: Design, Optimization, and Implementation. IEEE Journal on Selected Areas in Communications, 2020, 38, 2700-2716.	14.0	114
72	Energy-aware resource allocation for device-to-device underlay communication. , 2013, , .		113

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73	A college admissions game for uplink user association in wireless small cell networks. , 2014, , .		110
74	Practical Hybrid Beamforming With Finite-Resolution Phase Shifters for Reconfigurable Intelligent Surface Based Multi-User Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 4565-4570.	6.3	110
75	Smart grid sensor data collection, communication, and networking: a tutorial. Wireless Communications and Mobile Computing, 2014, 14, 1055-1087.	1.2	109
76	Contract Mechanism and Performance Analysis for Data Transaction in Mobile Social Networks. IEEE Transactions on Network Science and Engineering, 2019, 6, 103-115.	6.4	109
77	Mode Selection and Resource Allocation in Device-to-Device Communications: A Matching Game Approach. IEEE Transactions on Mobile Computing, 2017, 16, 3126-3141.	5.8	108
78	LEO-Satellite-Assisted UAV: Joint Trajectory and Data Collection for Internet of Remote Things in 6G Aerial Access Networks. IEEE Internet of Things Journal, 2021, 8, 9814-9826.	8.7	106
79	Resource allocation using a reverse iterative combinatorial auction for device-to-device underlay cellular networks. , 2012, , .		103
80	A Survey on Socially Aware Device-to-Device Communications. IEEE Communications Surveys and Tutorials, 2018, 20, 2169-2197.	39.4	103
81	Distributed Interference and Energy-Aware Power Control for Ultra-Dense D2D Networks: A Mean Field Game. IEEE Transactions on Wireless Communications, 2017, 16, 1205-1217.	9.2	102
82	Deep Reinforcement Learning Assisted Federated Learning Algorithm for Data Management of IIoT. IEEE Transactions on Industrial Informatics, 2021, 17, 8475-8484.	11.3	102
83	Hedonic Coalition Formation for Distributed Task Allocation among Wireless Agents. IEEE Transactions on Mobile Computing, 2011, 10, 1327-1344.	5.8	101
84	Social-Aware Peer Discovery for D2D Communications Underlying Cellular Networks. IEEE Transactions on Wireless Communications, 2015, 14, 2426-2439.	9.2	99
85	Capsule Network Assisted IoT Traffic Classification Mechanism for Smart Cities. IEEE Internet of Things Journal, 2019, 6, 7515-7525.	8.7	99
86	Distributive Opportunistic Spectrum Access for Cognitive Radio using Correlated Equilibrium and No-Regret Learning. , 2007, , .		98
87	Hierarchical Edge Caching in Device-to-Device Aided Mobile Networks: Modeling, Optimization, and Design. IEEE Journal on Selected Areas in Communications, 2018, 36, 1768-1785.	14.0	98
88	Virtual Resource Allocation in Information-Centric Wireless Networks With Virtualization. IEEE Transactions on Vehicular Technology, 2016, 65, 9902-9914.	6.3	97
89	Collaborative Multi-Tier Caching in Heterogeneous Networks: Modeling, Analysis, and Design. IEEE Transactions on Wireless Communications, 2017, 16, 6926-6939.	9.2	97
90	Coalitional Games with Overlapping Coalitions for Interference Management in Small Cell Networks. IEEE Transactions on Wireless Communications, 2014, 13, 2659-2669.	9.2	96

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91	A Comprehensive Survey on Mobility-Aware D2D Communications: Principles, Practice and Challenges. IEEE Communications Surveys and Tutorials, 2020, 22, 1863-1886.	39.4	95
92	TOSS: Traffic offloading by social network service-based opportunistic sharing in mobile social networks. , 2014, , .		94
93	Dynamic Popular Content Distribution in Vehicular Networks using Coalition Formation Games. IEEE Journal on Selected Areas in Communications, 2013, 31, 538-547.	14.0	92
94	Coalitional Games for Computation Offloading in NOMA-Enabled Multi-Access Edge Computing. IEEE Transactions on Vehicular Technology, 2020, 69, 1982-1993.	6.3	92
95	Resource Allocation for Device-to-Device Communications Underlying Heterogeneous Cellular Networks Using Coalitional Games. IEEE Transactions on Wireless Communications, 2018, 17, 4163-4176.	9.2	91
96	Distributed Relay-Assignment Protocols for Coverage Expansion in Cooperative Wireless Networks. IEEE Transactions on Mobile Computing, 2010, 9, 505-515.	5.8	90
97	Distributed User Association and Femtocell Allocation in Heterogeneous Wireless Networks. IEEE Transactions on Communications, 2014, 62, 3027-3043.	7.8	89
98	Combating Full-Duplex Active Eavesdropper: A Hierarchical Game Perspective. IEEE Transactions on Communications, 2017, 65, 1379-1395.	7.8	89
99	Secure wireless communications via cooperation. , 2008, , .		88
100	Optimal Pricing-Based Edge Computing Resource Management in Mobile Blockchain. , 2018, , .		88
101	Defeating Primary User Emulation Attacks Using Belief Propagation in Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 1850-1860.	14.0	87
102	Beyond Intelligent Reflecting Surfaces: Reflective-Transmissive Metasurface Aided Communications for Full-Dimensional Coverage Extension. IEEE Transactions on Vehicular Technology, 2020, 69, 13905-13909.	6.3	87
103	A Systematic Review on NOMA Variants for 5G and Beyond. IEEE Access, 2021, 9, 85573-85644.	4.2	86
104	Full-Duplex MAC Protocol Design and Analysis. IEEE Communications Letters, 2015, 19, 1185-1188.	4.1	84
105	Age of Information in Energy Harvesting Aided Massive Multiple Access Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 1441-1456.	14.0	84
106	Enhancing Information Security via Physical Layer Approaches in Heterogeneous IoT With Multiple Access Mobile Edge Computing in Smart City. IEEE Access, 2019, 7, 54508-54521.	4.2	83
107	Deep Reinforcement Learning Approaches for Content Caching in Cache-Enabled D2D Networks. IEEE Internet of Things Journal, 2020, 7, 544-557.	8.7	83
108	Physical Layer Security Game: Interaction between Source, Eavesdropper, and Friendly Jammer. Eurasip Journal on Wireless Communications and Networking, 2010, 2009, .	2.4	82

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109	Dogfight in Spectrum: Combating Primary User Emulation Attacks in Cognitive Radio Systemsâ€™Part II: Unknown Channel Statistics. IEEE Transactions on Wireless Communications, 2011, 10, 274-283.	9.2	82
110	Coexistence Mechanism Between eMBB and uRLLC in 5G Wireless Networks. IEEE Transactions on Communications, 2021, 69, 1736-1749.	7.8	82
111	A Distributed Relay-Assignment Algorithm for Cooperative Communications in Wireless Networks. , 2006, , .		81
112	A noncooperative game for double auction-based energy trading between PHEVs and distribution grids. , 2011, , .		81
113	Resource allocation in wireless networks with RF energy harvesting and transfer. IEEE Network, 2015, 29, 68-75.	6.9	81
114	Mobile Charging in Wireless-Powered Sensor Networks: Optimal Scheduling and Experimental Implementation. IEEE Transactions on Vehicular Technology, 2017, 66, 7400-7410.	6.3	81
115	MetaLocalization: Reconfigurable Intelligent Surface Aided Multi-User Wireless Indoor Localization. IEEE Transactions on Wireless Communications, 2021, 20, 7743-7757.	9.2	81
116	An Incentive Mechanism for Federated Learning in Wireless Cellular Networks: An Auction Approach. IEEE Transactions on Wireless Communications, 2021, 20, 4874-4887.	9.2	81
117	Matching and Cheating in Device to Device Communications Underlying Cellular Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2156-2166.	14.0	80
118	CatchIt: Detect Malicious Nodes in Collaborative Spectrum Sensing. , 2009, , .		79
119	Age of Information in a Cellular Internet of UAVs: Sensing and Communication Trade-Off Design. IEEE Transactions on Wireless Communications, 2020, 19, 6578-6592.	9.2	78
120	Architectural Design Alternatives Based on Cloud/Edge/Fog Computing for Connected Vehicles. IEEE Communications Surveys and Tutorials, 2020, 22, 2349-2377.	39.4	78
121	Noncooperative power-control game and throughput game over wireless networks. IEEE Transactions on Communications, 2005, 53, 1625-1629.	7.8	76
122	A Prediction-Based Charging Policy and Interference Mitigation Approach in the Wireless Powered Internet of Things. IEEE Journal on Selected Areas in Communications, 2019, 37, 439-451.	14.0	76
123	Energy Efficiency in Secure IRS-Aided SWIPT. IEEE Wireless Communications Letters, 2020, 9, 1884-1888.	5.0	76
124	Spectral Efficiency Optimization for Next Generation NOMA-Enabled IoT Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 15284-15297.	6.3	76
125	Eavesdropping and jamming in next-generation wireless networks: A game-theoretic approach. , 2011, , .		75
126	A Multi-Leader Multi-Follower Stackelberg Game for Resource Management in LTE Unlicensed. IEEE Transactions on Wireless Communications, 2017, 16, 348-361.	9.2	75

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127	Joint Optimization Strategy of Computation Offloading and Resource Allocation in Multi-Access Edge Computing Environment. IEEE Transactions on Vehicular Technology, 2020, 69, 10214-10226.	6.3	75
128	Reconfigurable Intelligent Surface Assisted Device-to-Device Communications. IEEE Transactions on Wireless Communications, 2021, 20, 2792-2804.	9.2	75
129	A Survey of Contract Theory-Based Incentive Mechanism Design in Wireless Networks. IEEE Wireless Communications, 2017, 24, 80-85.	9.0	74
130	Smart data pricing models for the internet of things: a bundling strategy approach. IEEE Network, 2016, 30, 18-25.	6.9	73
131	Resource Allocation in Space Multiaccess Systems. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 598-618.	4.7	73
132	Energy-Efficient Resource Allocation for Wireless Powered Massive MIMO System With Imperfect CSI. IEEE Transactions on Green Communications and Networking, 2017, 1, 121-130.	5.5	73
133	Stochastic Optimization-Aided Energy-Efficient Information Collection in Internet of Underwater Things Networks. IEEE Internet of Things Journal, 2022, 9, 1775-1789.	8.7	73
134	Joint HAP Access and LEO Satellite Backhaul in 6G: Matching Game-Based Approaches. IEEE Journal on Selected Areas in Communications, 2021, 39, 1147-1159.	14.0	71
135	Intelligent Omni-Surfaces: Ubiquitous Wireless Transmission by Reflective-Refractive Metasurfaces. IEEE Transactions on Wireless Communications, 2022, 21, 219-233.	9.2	71
136	Joint scheduling and resource allocation for device-to-device underlay communication. , 2013, , .		70
137	Distributed resource allocation for device-to-device communications underlying cellular networks. , 2013, , .		70
138	Completion Time Minimization With Path Planning for Fixed-Wing UAV Communications. IEEE Transactions on Wireless Communications, 2019, 18, 3485-3499.	9.2	70
139	Reconfigurable Intelligent Surfaces in 6G: Reflective, Transmissive, or Both?. IEEE Communications Letters, 2021, 25, 2063-2067.	4.1	70
140	Dynamic Spectrum Leasing and Service Selection in Spectrum Secondary Market of Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2012, 11, 1136-1145.	9.2	68
141	Physical-Layer Security in Distributed Wireless Networks Using Matching Theory. IEEE Transactions on Information Forensics and Security, 2013, 8, 717-732.	6.9	68
142	Social Data Offloading in D2D-Enhanced Cellular Networks by Network Formation Games. IEEE Transactions on Wireless Communications, 2015, 14, 7004-7015.	9.2	68
143	Market model and optimal pricing scheme of big data and Internet of Things (IoT). , 2016, , .		68
144	Intelligent Omni-Surfaces for Full-Dimensional Wireless Communications: Principles, Technology, and Implementation. IEEE Communications Magazine, 2022, 60, 39-45.	6.1	67

#	ARTICLE	IF	CITATIONS
145	Design and Optimization on Training Sequence for mmWave Communications: A New Approach for Sparse Channel Estimation in Massive MIMO. IEEE Journal on Selected Areas in Communications, 2017, 35, 1486-1497.	14.0	66
146	Physical Layer Security in Wireless Ad Hoc Networks Under A Hybrid Full-/Half-Duplex Receiver Deployment Strategy. IEEE Transactions on Wireless Communications, 2017, 16, 3827-3839.	9.2	66
147	Trust-Based Social Networks with Computing, Caching and Communications: A Deep Reinforcement Learning Approach. IEEE Transactions on Network Science and Engineering, 2020, 7, 66-79.	6.4	66
148	Reinforcement Learning for a Cellular Internet of UAVs: Protocol Design, Trajectory Control, and Resource Management. IEEE Wireless Communications, 2020, 27, 116-123.	9.0	66
149	A Survey on Applications of Model-Free Strategy Learning in Cognitive Wireless Networks. IEEE Communications Surveys and Tutorials, 2016, 18, 1717-1757.	39.4	65
150	Peer-to-Peer Energy Trading and Energy Conversion in Interconnected Multi-Energy Microgrids Using Multi-Agent Deep Reinforcement Learning. IEEE Transactions on Smart Grid, 2022, 13, 715-727.	9.0	65
151	On Identifying Primary User Emulation Attacks in Cognitive Radio Systems Using Nonparametric Bayesian Classification. IEEE Transactions on Signal Processing, 2012, 60, 1432-1445.	5.3	64
152	Self-Interest-Driven incentives for ad dissemination in autonomous mobile social networks. , 2013, , .		64
153	Radio Resource Allocation for Device-to-Device Underlay Communication Using Hypergraph Theory. IEEE Transactions on Wireless Communications, 2016, , 1-1.	9.2	63
154	Cooperative jamming for wireless physical layer security. , 2009, , .		62
155	A Bayesian Overlapping Coalition Formation Game for Device-to-Device Spectrum Sharing in Cellular Networks. IEEE Transactions on Wireless Communications, 2015, 14, 4034-4051.	9.2	62
156	Joint Cloud and Wireless Networks Operations in Mobile Cloud Computing Environments With Telecom Operator Cloud. IEEE Transactions on Wireless Communications, 2015, 14, 4020-4033.	9.2	62
157	Listen-and-Talk: Protocol Design and Analysis for Full-duplex Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	62
158	Achieving High Energy Efficiency and Physical-Layer Security in AF Relaying. IEEE Transactions on Wireless Communications, 2016, 15, 740-752.	9.2	62
159	Incentive Mechanism for Mobile Crowdsourcing Using an Optimized Tournament Model. IEEE Journal on Selected Areas in Communications, 2017, 35, 880-892.	14.0	62
160	Performance Analysis and Application of Mobile Blockchain. , 2018, , .		62
161	Response Delay Optimization in Mobile Edge Computing Enabled UAV Swarm. IEEE Transactions on Vehicular Technology, 2020, 69, 3280-3295.	6.3	62
162	Power minimization for multi-cell OFDM networks using distributed non-cooperative game approach. , 2004, , .		61

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163	Amplify-and-forward based cooperation for secure wireless communications. , 2009, , .		61
164	Hierarchical Deep Reinforcement Learning for Backscattering Data Collection With Multiple UAVs. IEEE Internet of Things Journal, 2021, 8, 3786-3800.	8.7	61
165	Asymptotic optimality for distributed spectrum sharing using bargaining solutions. IEEE Transactions on Wireless Communications, 2009, 8, 5225-5237.	9.2	60
166	Radio resource allocation for physical-layer security in D2D underlay communications. , 2014, , .		60
167	Fog computing in multi-tier data center networks: A hierarchical game approach. , 2016, , .		60
168	Offloading in HetNet: A Coordination of Interference Mitigation, User Association, and Resource Allocation. IEEE Transactions on Mobile Computing, 2017, 16, 2276-2291.	5.8	60
169	Multi-Agent Reinforcement Learning Aided Intelligent UAV Swarm for Target Tracking. IEEE Transactions on Vehicular Technology, 2022, 71, 931-945.	6.3	60
170	Blockchain Assisted Decentralized Federated Learning (BLADE-FL): Performance Analysis and Resource Allocation. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 2401-2415.	5.6	60
171	Physical Layer Security in MIMO Backscatter Wireless Systems. IEEE Transactions on Wireless Communications, 2016, 15, 7547-7560.	9.2	59
172	Smartphone App Usage Analysis: Datasets, Methods, and Applications. IEEE Communications Surveys and Tutorials, 2022, 24, 937-966.	39.4	59
173	Physical Layer Security for Two Way Relay Communications with Friendly Jammers. , 2010, , .		58
174	Energy-efficient radio resource and power allocation for device-to-device communication underlying cellular networks. , 2012, , .		58
175	QoE-Driven Channel Allocation and Handoff Management for Seamless Multimedia in Cognitive 5G Cellular Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 6569-6585.	6.3	58
176	Incentive Mechanism Design for Integrated Microgrids in Peak Ramp Minimization Problem. IEEE Transactions on Smart Grid, 2018, 9, 5774-5785.	9.0	58
177	Design of Contract-Based Trading Mechanism for a Small-Cell Caching System. IEEE Transactions on Wireless Communications, 2017, 16, 6602-6617.	9.2	57
178	Resource Allocation for 5G Heterogeneous Cloud Radio Access Networks With D2D Communication: A Matching and Coalition Approach. IEEE Transactions on Vehicular Technology, 2018, 67, 5883-5894.	6.3	57
179	A Stackelberg Game Approach to Proactive Caching in Large-Scale Mobile Edge Networks. IEEE Transactions on Wireless Communications, 2018, 17, 5198-5211.	9.2	57
180	Towards Ubiquitous Positioning by Leveraging Reconfigurable Intelligent Surface. IEEE Communications Letters, 2021, 25, 284-288.	4.1	57

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181	Reconfigurable Intelligent Surface-Assisted Aerial-Terrestrial Communications via Multi-Task Learning. IEEE Journal on Selected Areas in Communications, 2021, 39, 3035-3050.	14.0	57
182	Joint User Pairing, Subchannel, and Power Allocation in Full-Duplex Multi-User OFDMA Networks. IEEE Transactions on Wireless Communications, 2016, 15, 8260-8272.	9.2	56
183	A Contract Game for Direct Energy Trading in Smart Grid. IEEE Transactions on Smart Grid, 2018, 9, 2873-2884.	9.0	56
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