

# Xuming Fang

## List of Publications by Year in descending order

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55  
papers

1,558  
citations

279798

23  
h-index

302126

39  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1581  
citing authors

#	ARTICLE	IF	CITATIONS
1	IEEE 802.11ay-Based mmWave WLANs: Design Challenges and Solutions. IEEE Communications Surveys and Tutorials, 2018, 20, 1654-1681.	39.4	147
2	IEEE 802.11be Wi-Fi 7: New Challenges and Opportunities. IEEE Communications Surveys and Tutorials, 2020, 22, 2136-2166.	39.4	111
3	Handover Scheme for 5G C/U Plane Split Heterogeneous Network in High-Speed Railway. IEEE Transactions on Vehicular Technology, 2014, 63, 4633-4646.	6.3	83
4	Deep Learning-Based Beam Management and Interference Coordination in Dense mmWave Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 592-603.	6.3	81
5	Decentralized Beam Pair Selection in Multi-Beam Millimeter-Wave Networks. IEEE Transactions on Communications, 2018, 66, 2722-2737.	7.8	79
6	Machine Learning-Based Handovers for Sub-6 GHz and mmWave Integrated Vehicular Networks. IEEE Transactions on Wireless Communications, 2019, 18, 4873-4885.	9.2	71
7	Millimeter-Wave Network Architectures for Future High-Speed Railway Communications: Challenges and Solutions. IEEE Wireless Communications, 2016, 23, 114-122.	9.0	63
8	Beamspace SU-MIMO for Future Millimeter Wave Wireless Communications. IEEE Journal on Selected Areas in Communications, 2017, 35, 1564-1575.	14.0	62
9	Beam Management and Self-Healing for mmWave UAV Mesh Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 1718-1732.	6.3	60
10	Efficient Multiple-Group Multiple-Antenna (MGMA) Scheme for High-Speed Railway Viaducts. IEEE Transactions on Vehicular Technology, 2013, 62, 2558-2569.	6.3	53
11	Hybrid Spatial Modulation Beamforming for mmWave Railway Communication Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 9597-9606.	6.3	53
12	Control and data signaling decoupled architecture for railway wireless networks. IEEE Wireless Communications, 2015, 22, 103-111.	9.0	42
13	Discrete Power Control and Transmission Duration Allocation for Self-Backhauling Dense mmWave Cellular Networks. IEEE Transactions on Communications, 2018, 66, 432-447.	7.8	42
14	Performance Analysis of Massive Spatial Modulation MIMO in High-Speed Railway. IEEE Transactions on Vehicular Technology, 2016, 65, 8925-8932.	6.3	41
15	Multiuser Millimeter Wave Communications With Nonorthogonal Beams. IEEE Transactions on Vehicular Technology, 2017, 66, 5675-5688.	6.3	41
16	Beam Management for Millimeter-Wave Beamspace MU-MIMO Systems. IEEE Transactions on Communications, 2019, 67, 205-217.	7.8	39
17	Optimal Nonuniform Steady mmWave Beamforming for High-Speed Railway. IEEE Transactions on Vehicular Technology, 2018, 67, 4350-4358.	6.3	37
18	Safeguard Network Slicing in 5G: A Learning Augmented Optimization Approach. IEEE Journal on Selected Areas in Communications, 2020, 38, 1600-1613.	14.0	36

#	ARTICLE	IF	CITATIONS
19	Enhanced Random Access and Beam Training for Millimeter Wave Wireless Local Networks With High User Density. IEEE Transactions on Wireless Communications, 2017, 16, 7760-7773.	9.2	35
20	A Novel Network Architecture for C/U-Plane Staggered Handover in 5G Decoupled Heterogeneous Railway Wireless Systems. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3350-3362.	8.0	32
21	Stable Beamforming With Low Overhead for C/U-Plane Decoupled HSR Wireless Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 6075-6086.	6.3	30
22	A Low-Latency Content Dissemination Scheme for mmWave Vehicular Networks. IEEE Internet of Things Journal, 2019, 6, 7921-7933.	8.7	28
23	An optimized handover trigger scheme in LTE systems for high-speed railway. , 2011, , .		25
24	A Machine Learning-Based Defensive Alerting System Against Reckless Driving in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 12227-12238.	6.3	24
25	A Fast Beam Alignment Scheme for Dual-Band HSR Wireless Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 3968-3979.	6.3	24
26	Reliability evaluation of 5G C/U-plane decoupled architecture for high-speed railway. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	2.4	22
27	Control/User Plane Decoupled Architecture Utilizing Unlicensed Bands in LTE Systems. IEEE Wireless Communications, 2017, 24, 132-142.	9.0	22
28	Mobility Management through Scalable C/U-Plane Decoupling in IoV Networks. IEEE Communications Magazine, 2019, 57, 122-129.	6.1	22
29	Feedback Enhances the Security of State-Dependent Degraded Broadcast Channels With Confidential Messages. IEEE Transactions on Information Forensics and Security, 2015, 10, 1529-1542.	6.9	16
30	Safety-Oriented Resource Allocation for Space-Ground Integrated Cloud Networks of High-Speed Railways. IEEE Journal on Selected Areas in Communications, 2020, 38, 2747-2759.	14.0	15
31	Multi-Beam Transmission and Dual-Band Cooperation for Control/Data Plane Decoupled WLANs. IEEE Transactions on Vehicular Technology, 2019, 68, 9806-9819.	6.3	13
32	A massive MIMO-based adaptive multi-stream beamforming scheme for high-speed railway. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	11
33	AI-Enabled Sub-6-GHz and mm-Wave Hybrid Communications: Considerations for Use With Future HSR Wireless Systems. IEEE Vehicular Technology Magazine, 2020, 15, 59-67.	3.4	11
34	Unlicensed Spectra Fusion and Interference Coordination for LTE Systems. IEEE Transactions on Mobile Computing, 2016, 15, 3171-3184.	5.8	10
35	Joint Transmission Reception Point Selection and Resource Allocation for Energy-Efficient Millimeter-Wave Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 412-428.	6.3	10
36	Augmenting Transmission Environments for Better Communications: Tunable Reflector Assisted MmWave WLANs. IEEE Transactions on Vehicular Technology, 2020, 69, 7416-7428.	6.3	9

#	ARTICLE	IF	CITATIONS
37	Throughput and robustness guaranteed beam tracking for mmWave wireless networks. , 2017, , .		7
38	BER Performance of Spatial Modulation Systems Under a Non-Stationary Massive MIMO Channel Model. IEEE Access, 2020, 8, 44547-44558.	4.2	7
39	Joint Radio Resource Allocation for Decoupled Control and Data Planes in Densely Deployed Coordinated WLANs. IEEE Transactions on Wireless Communications, 2021, 20, 3749-3759.	9.2	6
40	Resource Management for Maximizing the Secure Sum Rate in Dense Millimeter-Wave Networks. IEEE Access, 2020, 8, 158416-158431.	4.2	5
41	Cost-Reliability Tradeoff in Licensed and Unlicensed Spectra Interoperable Networks with Guaranteed User Data Rate Requirements. IEEE Journal on Selected Areas in Communications, 2016, , 1-1.	14.0	4
42	Performance Analysis of On-board Content Caching and Retrieval for High-Speed Railways. , 2019, , .		4
43	Cloud Based mmWave WLANs: Architectural Paradigms, Proposals and Perspectives. IEEE Wireless Communications, 2020, 27, 170-177.	9.0	4
44	Systematic Beam Management in mmWave Networks: Tradeoff Among Beam Coverage, Link Budget, and Interference Control. IEEE Transactions on Vehicular Technology, 2020, 69, 15325-15334.	6.3	4
45	Adaptive Scheduling for Joint Communication and Radar Detection: Tradeoff Among Throughput, Delay, and Detection Performance. IEEE Transactions on Vehicular Technology, 2022, 71, 670-680.	6.3	4
46	Intelligent hybrid automatic repeat request retransmission for multi-band Wi-Fi networks. IET Communications, 2021, 15, 1249-1258.	2.2	3
47	End-to-End Performance Optimization of Tandem Queuing for High-Speed Train Networks. , 2016, , .		2
48	Efficient Hierarchical Multiple Access for Ambient Backscatter Wireless Networks. , 2019, , .		2
49	Adaptive Scheduling for Joint CommRadar: Optimizing Tradeoff Among Data Throughput, Queueing Delay, and Detection Opportunities. , 2021, , .		2
50	KF-LSTM Based Beam Tracking for UAV-Assisted mmWave HSR Wireless Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 10796-10807.	6.3	2
51	Capacity Analysis and Call Admission Control Scheme with Imperfect Power Control in Multimedia CDMA Networks. , 2006, , .		1
52	Dynamic channel selections and performance analysis for High-Speed Train WiFi network. , 2015, , .		1
53	A Multi-MAC Based Multi-Channel OLSR for Wireless Ad Hoc Network. , 2007, , .		0
54	An energy-efficient cross-layer rate control method of WLAN. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
55	A long-term proportional fair dynamic bandwidth allocation scheme for EPON. , 2016, , .		0