

# Kai Yang

## List of Publications by Year in descending order

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58  
papers

1,567  
citations

361413

20  
h-index

345221

36  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1861  
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving Sustainable Ultra-Dense Heterogeneous Networks for 5G. , 2017, 55, 84-90.		203
2	Non-Orthogonal Multiple Access: Achieving Sustainable Future Radio Access. IEEE Communications Magazine, 2019, 57, 116-121.	6.1	182
3	Optimal Node Placement and Resource Allocation for UAV Relaying Network. IEEE Communications Letters, 2018, 22, 808-811.	4.1	144
4	Energy-Efficient Power Control for Device-to-Device Communications. IEEE Journal on Selected Areas in Communications, 2016, 34, 3208-3220.	14.0	106
5	Auction-Based Time Scheduling for Backscatter-Aided RF-Powered Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1684-1697.	9.2	104
6	Energy-Efficient Downlink Resource Allocation in Heterogeneous OFDMA Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 5086-5098.	6.3	61
7	Hybrid Beamforming for Terahertz Multi-Carrier Systems Over Frequency Selective Fading. IEEE Transactions on Communications, 2020, 68, 6186-6199.	7.8	60
8	Low Complexity Hybrid Precoding for Multiuser Millimeter Wave Systems Over Frequency Selective Channels. IEEE Transactions on Vehicular Technology, 2019, 68, 983-987.	6.3	47
9	Green Large-Scale Fog Computing Resource Allocation Using Joint Benders Decomposition, Dinkelbach Algorithm, ADMM, and Branch-and-Bound. IEEE Internet of Things Journal, 2019, 6, 4106-4117.	8.7	47
10	Uplink Sensing in Perceptive Mobile Networks With Asynchronous Transceivers. IEEE Transactions on Signal Processing, 2021, 69, 1287-1300.	5.3	46
11	Compressive Sensing Based Channel Estimation for Millimeter-Wave Full-Dimensional MIMO With Lens-Array. IEEE Transactions on Vehicular Technology, 2020, 69, 2337-2342.	6.3	42
12	Adaptive Bitrate Streaming in Wireless Networks With Transcoding at Network Edge Using Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2020, 69, 3879-3892.	6.3	41
13	Decoupled Heterogeneous Networks With Millimeter Wave Small Cells. IEEE Transactions on Wireless Communications, 2018, 17, 5871-5884.	9.2	39
14	Coverage Analysis of Integrated Sub-6GHz-mmWave Cellular Networks With Hotspots. IEEE Transactions on Communications, 2019, 67, 8151-8164.	7.8	38
15	Energy-Efficient Base Station Association and Beamforming for Multi-Cell Multiuser Systems. IEEE Transactions on Wireless Communications, 2020, 19, 2841-2854.	9.2	38
16	Contract Design for Time Resource Assignment and Pricing in Backscatter-Assisted RF-Powered Networks. IEEE Wireless Communications Letters, 2020, 9, 42-46.	5.0	35
17	Dynamic Access Point and Service Selection in Backscatter-Assisted RF-Powered Cognitive Networks. IEEE Internet of Things Journal, 2019, 6, 8270-8283.	8.7	24
18	Buffer-Aware Streaming in Small-Scale Wireless Networks: A Deep Reinforcement Learning Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 6891-6902.	6.3	24

#	ARTICLE	IF	CITATIONS
19	Hybrid Beamforming for MIMO-OFDM Terahertz Wireless Systems over Frequency Selective Channels. , 2018, , .		21
20	Energy-Efficient User Scheduling and Power Control for Multi-Cell OFDMA Networks Based on Channel Distribution Information. IEEE Transactions on Signal Processing, 2018, 66, 5848-5861.	5.3	21
21	UAV-Aided Low Latency Mobile Edge Computing with mmWave Backhaul. , 2019, , .		21
22	Multi-Metric Waveform Optimization for Multiple-Input Single-Output Joint Communication and Radar Sensing. IEEE Transactions on Communications, 2022, 70, 1276-1289.	7.8	21
23	Network Function Virtualization Resource Allocation Based on Joint Benders Decomposition and ADMM. IEEE Transactions on Vehicular Technology, 2020, 69, 1706-1718.	6.3	20
24	UAV-Aided Low Latency Multi-Access < ?brk?>Edge Computing. IEEE Transactions on Vehicular Technology, 2021, 70, 4955-4967.	6.3	20
25	Cooperative Scheme for Backscatter-Aided Passive Relay Communications in Wireless-Powered D2D Networks. IEEE Internet of Things Journal, 2022, 9, 152-164.	8.7	20
26	Rate-Energy Tradeoff in Simultaneous Wireless Information and Power Transfer Over Fading Channels With Uncertain Distribution. IEEE Transactions on Vehicular Technology, 2018, 67, 3663-3668.	6.3	16
27	Cluster-Based Multi-Carrier Hybrid Beamforming for Massive Device Terahertz Communications. IEEE Transactions on Communications, 2022, 70, 3407-3420.	7.8	12
28	Energy-Efficient Power Control for Device-to-Device Communications with Max-Min Fairness. , 2016, , .		10
29	Enabling Massive Connections Using Hybrid Beamforming in Terahertz Micro-Scale Networks. , 2020, , .		10
30	Parameter Estimation and Signal Optimization for Joint Communication and Radar Sensing. , 2020, , .		10
31	Design, Simulation, and Implementation of a CMOS Analog Decoder for (480,240) Low-Density Parity-Check Code. IEEE Access, 2017, 5, 17381-17391.	4.2	9
32	Meta Distribution of the SINR for mmWave Cellular Networks With Clusters. IEEE Transactions on Communications, 2021, 69, 6956-6970.	7.8	9
33	Low-Density Parity-Check Coded Direct Sequence Spread Spectrum Receiver Based on Analog Probabilistic Processing. IEEE Transactions on Vehicular Technology, 2021, 70, 6355-6370.	6.3	9
34	Energy-Efficient Resource Allocation and Power Control for Downlink Multi-Cell OFDMA Networks. , 2017, , .		8
35	Green Fog Computing Resource Allocation Using Joint Benders Decomposition, Dinkelbach Algorithm, and Modified Distributed Inner Convex Approximation. , 2018, , .		8
36	Estimation of Multiple Angle-of-Arrivals With Localized Hybrid Subarrays for Millimeter Wave Systems. IEEE Transactions on Communications, 2020, 68, 1897-1910.	7.8	7

#	ARTICLE	IF	CITATIONS
37	Dynamic Spectrum Leasing With Two Sellers. IEEE Transactions on Vehicular Technology, 2018, 67, 4852-4866.	6.3	6
38	Cooperative decode-and-forward relaying with orthogonal space-time block code over doubly correlated Nakagami- $m$ fading channels. IET Communications, 2013, 7, 501-511.	2.2	4
39	LTE uplink interference aware resource allocation. Computer Communications, 2015, 66, 45-53.	5.1	4
40	Hybrid precoding for cluster-based multi-carrier beam division multiple access in terahertz wireless communications. China Communications, 2021, 18, 81-92.	3.2	4
41	Hybrid Precoder Design With Minimum-Subspace-Distortion Quantization in Multiuser mmWave Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 11055-11065.	6.3	3
42	Resource Allocation Robust to Traffic and Channel Variations in Multihop Wireless Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 7861-7866.	6.3	2
43	Energy Efficient Mobile Edge Computing using Joint Benders Decomposition and Distributed Dinkelbach Algorithm. , 2018, , .		2
44	Spatially Asymptotic Behavior of Structured Covariance Matrix Estimation for Massive MIMO. IEEE Communications Letters, 2021, 25, 2594-2598.	4.1	2
45	Fairness-aware energy-efficient power control scheme for D2D communications underlying cellular networks. , 2017, , .		1
46	An Auction-Based Time Scheduling Mechanism for Backscatter-Aided RF-Powered Cognitive Radio Networks. , 2018, , .		1
47	A Coalition Game for Backscatter-Aided Passive Relay Communications in Wireless-Powered D2D Networks. , 2020, , .		1
48	Low-complexity Subarray-based RF Precoding for Wideband Multiuser Millimeter Wave Systems. IEEE Transactions on Vehicular Technology, 2020, , 1-1.	6.3	1
49	Energy-Efficient Channel Estimation. IEEE Access, 2020, 8, 9702-9714.	4.2	1
50	Frequency-Hopping Based Joint Automotive Radar-Communication Systems Using A Single Device. , 2022, , .		1
51	A game theoretical model for signature selection in non-cooperative IrLDS-OFDMA system. , 2017, , .		0
52	Codebook Based Minimum Subspace Distortion Hybrid Precoding for Millimeter Wave Systems. , 2018, , .		0
53	Achieving Sustainable 5G. Wireless Communications and Mobile Computing, 2018, 2018, 1-2.	1.2	0
54	A Compressive Sensing-Based Dynamic Estimation Algorithm in Unified Laser TTC System. IEEE Access, 2019, 7, 29963-29972.	4.2	0

#	ARTICLE	IF	CITATIONS
55	Dynamic Service Selection in Backscatter-Assisted RF-Powered Cognitive Networks: An Evolutionary Game Approach. , 2019, , .		0
56	Hybrid Precoding for Narrowband Multiuser mmWave Systems. , 2022, , 111-132.		0
57	Fine-Grained Analysis of mmWave Hotspots. , 2022, , 55-82.		0
58	Asynchronous Uplink Sensors Fused in Perceptive Mobile Networks. , 2022, , .		0