

# Gang Wu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94  
papers

2,403  
citations

18  
h-index

48  
g-index

154  
ext. papers

3,070  
ext. citations

5.1  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
94	OFDM and Its Wireless Applications: A Survey. <i>IEEE Transactions on Vehicular Technology</i> , <b>2009</b> , 58, 1673-1694	4.694	476
93	4G/5G Multiple Antennas for Future Multi-Mode Smartphone Applications. <i>IEEE Access</i> , <b>2016</b> , 4, 2981-2988	3.9	215
92	Eight-Port Orthogonally Dual-Polarized Antenna Array for 5G Smartphone Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 3820-3830	4.9	201
91	Performance Analysis and Optimization in Downlink NOMA Systems With Cooperative Full-Duplex Relaying. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2017</b> , 35, 2398-2412	14.2	187
90	A Survey of Advanced Techniques for Spectrum Sharing in 5G Networks. <i>IEEE Wireless Communications</i> , <b>2017</b> , 24, 44-51	13.4	169
89	A Versatile Approach towards Multifunctional Robust Microcapsules with Tunable, Restorable, and Solvent-Proof Superhydrophobicity for Self-Healing and Self-Cleaning Coatings. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 6751-6761	15.6	116
88	Robust microcapsules with polyurea/silica hybrid shell for one-part self-healing anticorrosion coatings. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11614-11620	13	116
87	SIW Multibeam Array for 5G Mobile Devices. <i>IEEE Access</i> , <b>2016</b> , 4, 2788-2796	3.5	90
86	Efficient Scheduling and Power Allocation for D2D-Assisted Wireless Caching Networks. <i>IEEE Transactions on Communications</i> , <b>2016</b> , 64, 2438-2452	6.9	82
85	Recent advances in energy-efficient networks and their application in 5G systems. <i>IEEE Wireless Communications</i> , <b>2015</b> , 22, 145-151	13.4	76
84	Energy-Efficient Cognitive Transmission With Imperfect Spectrum Sensing. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2016</b> , 34, 1320-1335	14.2	44
83	Efficient Network Coding for Wireless Broadcasting <b>2010</b> ,		34
82	Reconfigurable narrow-frame antenna for LTE/WWAN metal-rimmed smartphone applications. <i>IET Microwaves, Antennas and Propagation</i> , <b>2016</b> , 10, 1092-1100	1.6	34
81	On Fixed-Point Implementation of Log-MPA for SCMA Signals. <i>IEEE Wireless Communications Letters</i> , <b>2016</b> , 5, 324-327	5.9	27
80	On Designing Energy-Efficient Heterogeneous Cloud Radio Access Networks. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2018</b> , 2, 721-734	4	26
79	Preamble Design with ICI Cancellation for Channel Estimation in OFDM/OQAM System. <i>IEICE Transactions on Communications</i> , <b>2010</b> , E93-B, 211-214	0.5	21
78	Dancing with light: Predictive in-frame rate selection for visible light networks <b>2015</b> ,		20

77	Joint Power Allocation and User Scheduling for Device-to-Device-Enabled Heterogeneous Networks With Non-Orthogonal Multiple Access. <i>IEEE Access</i> , <b>2019</b> , 7, 62657-62671	3.5	18
76	Concurrent Superhydrophobicity and Thermal Energy Storage of Microcapsule with Superior Thermal Stability and Durability. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7759-7767	8.3	18
75	Dual-loop antenna with band-stop matching circuit for WWAN/LTE full metal-rimmed smartphone application. <i>IET Microwaves, Antennas and Propagation</i> , <b>2016</b> , 10, 1715-1720	1.6	18
74	NFC Antenna With Nonuniform Meandering Line and Partial Coverage Ferrite Sheet for Metal Cover Smartphone Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 2827-2835	4.9	17
73	Joint Resource Allocation and Trajectory Control for UAV-Enabled Vehicular Communications. <i>IEEE Access</i> , <b>2019</b> , 7, 132806-132815	3.5	17
72	Electrodeposition-based electrochromic devices with reversible three-state optical transformation by using titanium dioxide nanoparticle modified FTO electrode. <i>RSC Advances</i> , <b>2016</b> , 6, 30769-30775	3.7	17
71	Profit maximization in wireless powered communications with improved non-linear energy conversion and storage efficiencies <b>2017</b> ,		17
70	Leakage-based user scheduling in MU-MIMO broadcast channel. <i>Science in China Series F: Information Sciences</i> , <b>2009</b> , 52, 2259-2268		17
69	Proactive Cross-Channel Gain Estimation for Spectrum Sharing in Cognitive Radio. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2016</b> , 34, 2776-2790	14.2	16
68	Nonlinearity Reduction by Tone Reservation with Null Subcarriers for WiMAX System. <i>Wireless Personal Communications</i> , <b>2010</b> , 54, 289-305	1.9	15
67	Joint User Pairing and Precoding in MU-MIMO Broadcast Channel with Limited Feedback. <i>IEEE Communications Letters</i> , <b>2010</b> , 14, 1032-1034	3.8	14
66	Optimal Power Allocation for CR Networks with Direct and Relay-Aided Transmissions. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 1-11	9.6	13
65	Energy Efficient Resource Allocation for Control Data Separated Heterogeneous-CRAN <b>2016</b> ,		13
64	Dynamic programming-based pico base station sleep mode control in heterogeneous networks. <i>International Journal of Communication Systems</i> , <b>2017</b> , 30, e2967	1.7	11
63	Analysis of Tone Reservation Method for WiMAX System <b>2006</b> ,		11
62	Primary Channel Gain Estimation for Spectrum Sharing in Cognitive Radio Networks. <i>IEEE Transactions on Communications</i> , <b>2017</b> , 1-1	6.9	10
61	Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 4389-4402	10.7	10
60	Joint CHANNEL-AND-dATA estimation for large-MIMO systems with low-precision ADCs <b>2015</b> ,		9

59	Computing Resource Aware Energy Saving Scheme for Cloud Radio Access Networks <b>2016</b> ,		9
58	Blind detection of uplink grant-free SCMA with unknown user sparsity <b>2017</b> ,		9
57	ICI mitigation by Doppler frequency shift estimation and pre-compensation in LTE-R systems <b>2012</b> ,		9
56	Power allocation for massive MIMO: impact of power amplifier efficiency. <i>Science China Information Sciences</i> , <b>2016</b> , 59, 1-9	3.4	8
55	SINR or SLNR: In Successive User Scheduling in MU-MIMO Broadcast Channel with Finite Rate Feedback <b>2010</b> ,		8
54	Millimeter Wave Wide-Angle Scanning Circularly Polarized Antenna Array with a Novel Polarizer. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	8
53	Active User Identification Based on Asynchronous Sparse Bayesian Learning With SVM. <i>IEEE Access</i> , <b>2019</b> , 7, 108116-108124	3.5	7
52	A Time-Domain PTS without Side Information in SC-FDMA Systems <b>2011</b> ,		6
51	Decentralized Caching Schemes and Performance Limits in Two-Layer Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 12177-12192	6.8	6
50	A Subset-Based Coherent FFH System. <i>IEEE Communications Letters</i> , <b>2015</b> , 19, 199-202	3.8	5
49	Simple Clustering Methods for Multi-Hop Cooperative Device-to-Device Communication <b>2015</b> ,		5
48	Directional Modulation With Cooperative Receivers. <i>IEEE Access</i> , <b>2018</b> , 6, 34992-35000	3.5	5
47	Practical soft-SIC detection for MIMO SC-FDMA system with co-channel interference <b>2010</b> ,		5
46	Parallel-implemented message passing algorithm for SCMA decoder based on GPGPU <b>2017</b> ,		4
45	Performance analysis of FFH/BPSK system with partial band noise jamming and channel estimation error in high-mobility wireless communication scenarios. <i>Science Bulletin</i> , <b>2014</b> , 59, 5011-5018		4
44	Power Spectral Density Comparison for the Clipped OFDM-Type Signals <b>2010</b> ,		4
43	Effectiveness of Preamble Based Channel Estimation for OFDM/OQAM System <b>2009</b> ,		4
42	Joint timing and frequency synchronization for IEEE 802.16 OFDM systems <b>2007</b> ,		4

41	Arrival Rate-Based Average Energy-Efficient Resource Allocation for 5G Heterogeneous Cloud RAN. <i>IEEE Access</i> , <b>2019</b> , 7, 136332-136342	3.5	3
40	Achievable Degrees of Freedom of MIMO Y Channel With Delayed CSIT. <i>IEEE Communications Letters</i> , <b>2014</b> , 18, 1583-1586	3.8	3
39	Optimal power allocation for AF full-duplex relay in cognitive radio networks <b>2013</b> ,		3
38	Utility-maximization resource allocation for device-to-device communication underlying cellular networks <b>2013</b> ,		3
37	Energy efficient pico base station switching-on/off in heterogeneous cellular network with minimum rate requirement <b>2014</b> ,		3
36	On design of physical random access channel in high-speed railway LTE systems. <i>Science Bulletin</i> , <b>2014</b> , 59, 5042-5050		3
35	Performance analysis of peak cancellation in OFDM systems. <i>Science China Information Sciences</i> , <b>2012</b> , 55, 789-794	3.4	3
34	A low-complexity multiple signal representation scheme in downlink OFDM-CDMA. <i>Science in China Series F: Information Sciences</i> , <b>2009</b> , 52, 2433-2444		3
33	Capacity bounds of transmit beamforming over MISO time-varying channels with imperfect feedback. <i>Science China Information Sciences</i> , <b>2010</b> , 53, 1417-1430	3.4	3
32	HPA Nonlinearity Reduction by Joint Predistorter and Tone-Reservation with Null Subcarriers in WiMAX Systems <b>2008</b> ,		3
31	Retrospective Network Coding Alignment Over $\mathbb{K}\mathbb{K}$ -User MIMO Y Channel. <i>IEEE Communications Letters</i> , <b>2016</b> , 20, 502-505	3.8	2
30	Design of Low PAPR Fundamental Modulation Waveform for Transform Domain Communication System. <i>Wireless Personal Communications</i> , <b>2013</b> , 71, 2215-2229	1.9	2
29	Joint optimization of peak-to-average power ratio and spectral leakage in 5G multicarrier waveforms. <i>China Communications</i> , <b>2015</b> , 12, 83-92	3	2
28	Leakage-based power allocation for relaxed SLNR beamforming in multi-cell MU-MIMO systems <b>2014</b> ,		2
27	Low-Complexity Energy-Efficient Resource Allocation for Uplink OFDMA Systems <b>2013</b> ,		2
26	Proactive channel gain estimation for coexistence between cognitive and primary users <b>2012</b> ,		2
25	Optimized non-unitary linear precoding for orthogonal space-time block codes. <i>IEEE Communications Letters</i> , <b>2009</b> , 13, 414-416	3.8	2
24	Performance Analysis of Cooperative Networks with Random Decode-and-Forward Relaying <b>2008</b> ,		2

23	Large-scale antenna-assisted grant-free non-orthogonal multiple access via compressed sensing <b>2017,</b>		1
22	Low complexity time-frequency synchronization for transform domain communications systems <b>2015,</b>		1
21	Biomimetics: A Versatile Approach towards Multifunctional Robust Microcapsules with Tunable, Restorable, and Solvent-Proof Superhydrophobicity for Self-Healing and Self-Cleaning Coatings (Adv. Funct. Mater. 43/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 6734-6734	15.6	1
20	Relay-Assisted Proactive Channel Gain Estimation in Cognitive Radio <b>2013,</b>		1
19	Data-aided joint symbol timing and CFO estimation for OFDM/OQAM systems <b>2011,</b>		1
18	Covariance-based follower jamming blocking algorithm for slow FH-BFSK systems <b>2009,</b>		1
17	A novel transmit beamforming scheme for BER improvement in EIRP constrained UWB systems <b>2011,</b>		1
16	Performance Analysis of Uplink IFDMA in the Presence of Carrier Frequency Offsets <b>2011,</b>		1
15	The interference of MIMO transmission modes in downlink LTE systems <b>2012,</b>		1
14	A Novel Decoding Method for Rateless Codes Basing on Packet Combining <b>2012,</b>		1
13	Improved codebook design for precoding of OSTBCs in correlated MIMO channels with finite rate feedback <b>2009,</b>		1
12	Effectiveness of tone-reservation using null subcarriers (TR-NS) in WiMAX systems <b>2007,</b>		1
11	Order-optimal caching in hierarchical networks <b>2016,</b>		1
10	Achievable degrees of freedom of MIMO two-way X relay channel with delayed CSIT. <i>Science China Information Sciences</i> , <b>2016</b> , 59, 1	3.4	1
9	Performance analysis of a subset-based coherent FFH system with spatial modulation in Rayleigh fading channels with multitone jamming. <i>IET Communications</i> , <b>2016</b> , 10, 2199-2205	1.3	1
8	Dual-Band Quad-Polarized Transmitarray for 5G Mm-Wave Application. <i>IEEE Access</i> , <b>2021</b> , 9, 117520-117526	3.5	1
7	Dual-Polarized Two-Dimensional Multibeam Antenna Array With Hybrid Beamforming and its Planarization. <i>IEEE Access</i> , <b>2021</b> , 9, 54951-54961	3.5	1
6	Adaptive Jamming Suppression in Coherent FFH System Using Weighted Equal Gain Combining Receiver over Fading Channels with Imperfect CSI. <i>Journal of Electrical and Computer Engineering</i> , <b>2015</b> , 2015, 1-8	1.9	0

- 5 Directional modulation with distributed receiver selection for secure wireless communications. *Science China Information Sciences*, **2021**, 64, 1 3.4 ○
- 4 Planar Dual-Polarization Bidirectional Multibeam Array Antenna for Millimeter-Wave Applications. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1 4.9 ○
- 3 An optimized non-unitary linear precoding design for OSTBCs. *Science China Information Sciences*, **2010**, 53, 335-343 3.4
- 2 Load Balancing Relay for Two-Tier MTC Uplink. *IEEE Wireless Communications Letters*, **2020**, 9, 2073-2077 5.9
- 1 Poly(ethylene imine)-Triggered Morphological Change of Anisotropic Micelles from Direct Aqueous Self-Assembly of an Amphiphilic Diblock Copolymer. *Macromolecular Chemistry and Physics*, **2016**, 217, 2165-2171 2.6