

# Gang Wu

## List of Publications by Year in Descending Order

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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	Directional modulation with distributed receiver selection for secure wireless communications. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	0
93	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
92	Dual-Band Quad-Polarized Transmitarray for 5G Mm-Wave Application. <i>IEEE Access</i> , <b>2021</b> , 9, 117520-117526	3.5	1
91	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
90	Planar Dual-Polarization Bidirectional Multibeam Array Antenna for Millimeter-Wave Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 1-1	4.9	0
89	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
88	Load Balancing Relay for Two-Tier MTC Uplink. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 9, 2073-2077	5.9	
87	Active User Identification Based on Asynchronous Sparse Bayesian Learning With SVM. <i>IEEE Access</i> , <b>2019</b> , 7, 108116-108124	3.5	7
86	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
85	Joint Resource Allocation and Trajectory Control for UAV-Enabled Vehicular Communications. <i>IEEE Access</i> , <b>2019</b> , 7, 132806-132815	3.5	17
84	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
83	Directional Modulation With Cooperative Receivers. <i>IEEE Access</i> , <b>2018</b> , 6, 34992-35000	3.5	5
82	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
81	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
80	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
79	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
78	Large-scale antenna-assisted grant-free non-orthogonal multiple access via compressed sensing <b>2017</b> ,		1

77	Blind detection of uplink grant-free SCMA with unknown user sparsity <b>2017</b> ,		9
76	Profit maximization in wireless powered communications with improved non-linear energy conversion and storage efficiencies <b>2017</b> ,		17
75	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
74	Parallel-implemented message passing algorithm for SCMA decoder based on GPGPU <b>2017</b> ,		4
73	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
72	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
71	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
70	Computing Resource Aware Energy Saving Scheme for Cloud Radio Access Networks <b>2016</b> ,		9
69	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
68	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
67	4G/5G Multiple Antennas for Future Multi-Mode Smartphone Applications. <i>IEEE Access</i> , <b>2016</b> , 4, 2981-2988	3.8	215
66	Retrospective Network Coding Alignment Over $K \times K$ -User MIMO Channel. <i>IEEE Communications Letters</i> , <b>2016</b> , 20, 502-505	3.8	2
65	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
64	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
63	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
62	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
61	SIW Multibeam Array for 5G Mobile Devices. <i>IEEE Access</i> , <b>2016</b> , 4, 2788-2796	3.5	90
60	Energy Efficient Resource Allocation for Control Data Separated Heterogeneous-CRAN <b>2016</b> ,		13

59	Order-optimal caching in hierarchical networks <b>2016</b> ,		1
58	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
57	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
56	Poly(ethylene imine)-Triggered Morphological Change of Anisotropic Micelles from Direct Aqueous Self-Assembly of an Amphiphilic Diblock Copolymer. <i>Macromolecular Chemistry and Physics</i> , <b>2016</b> , 217, 2165-2171	2.6	
55	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
54	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
53	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
52	A Subset-Based Coherent FFH System. <i>IEEE Communications Letters</i> , <b>2015</b> , 19, 199-202	3.8	5
51	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
50	Simple Clustering Methods for Multi-Hop Cooperative Device-to-Device Communication <b>2015</b> ,		5
49	Joint cCHANNEL-AND-dATA estimation for large-MIMO systems with low-precision ADCs <b>2015</b> ,		9
48	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
47	Low complexity time-frequency synchronization for transform domain communications systems <b>2015</b> ,		1
46	Dancing with light: Predictive in-frame rate selection for visible light networks <b>2015</b> ,		20
45	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
44	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
43	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
42	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

41	Energy efficient pico base station switching-on/off in heterogeneous cellular network with minimum rate requirement <b>2014</b> ,		3
40	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
39	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
38	Leakage-based power allocation for relaxed SLNR beamforming in multi-cell MU-MIMO systems <b>2014</b> ,		2
37	On design of physical random access channel in high-speed railway LTE systems. <i>Science Bulletin</i> , <b>2014</b> , 59, 5042-5050		3
36	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
35	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
34	Optimal power allocation for AF full-duplex relay in cognitive radio networks <b>2013</b> ,		3
33	Utility-maximization resource allocation for device-to-device communication underlying cellular networks <b>2013</b> ,		3
32	Relay-Assisted Proactive Channel Gain Estimation in Cognitive Radio <b>2013</b> ,		1
31	Low-Complexity Energy-Efficient Resource Allocation for Uplink OFDMA Systems <b>2013</b> ,		2
30	Performance analysis of peak cancellation in OFDM systems. <i>Science China Information Sciences</i> , <b>2012</b> , 55, 789-794	3.4	3
29	ICI mitigation by Doppler frequency shift estimation and pre-compensation in LTE-R systems <b>2012</b> ,		9
28	Proactive channel gain estimation for coexistence between cognitive and primary users <b>2012</b> ,		2
27	The interference of MIMO transmission modes in downlink LTE systems <b>2012</b> ,		1
26	A Novel Decoding Method for Rateless Codes Basing on Packet Combing <b>2012</b> ,		1
25	Data-aided joint symbol timing and CFO estimation for OFDM/OQAM systems <b>2011</b> ,		1
24	A Time-Domain PTS without Side Information in SC-FDMA Systems <b>2011</b> ,		6

23	A novel transmit beamforming scheme for BER improvement in EIRP constrained UWB systems <b>2011</b> ,		1
22	Performance Analysis of Uplink IFDMA in the Presence of Carrier Frequency Offsets <b>2011</b> ,		1
21	Power Spectral Density Comparison for the Clipped OFDM-Type Signals <b>2010</b> ,		4
20	Efficient Network Coding for Wireless Broadcasting <b>2010</b> ,		34
19	SINR or SLNR: In Successive User Scheduling in MU-MIMO Broadcast Channel with Finite Rate Feedback <b>2010</b> ,		8
18	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
17	Practical soft-SIC detection for MIMO SC-FDMA system with co-channel interference <b>2010</b> ,		5
16	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
15	An optimized non-unitary linear precoding design for OSTBCs. <i>Science China Information Sciences</i> , <b>2010</b> , 53, 335-343	3.4	
14	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
13	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
12	Covariance-based follower jamming blocking algorithm for slow FH-BFSK systems <b>2009</b> ,		1
11	Effectiveness of Preamble Based Channel Estimation for OFDM/OQAM System <b>2009</b> ,		4
10	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
9	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
8	OFDM and Its Wireless Applications: A Survey. <i>IEEE Transactions on Vehicular Technology</i> , <b>2009</b> , 58, 1673-1694	4.894	476
7	Improved codebook design for precoding of OSTBCs in correlated MIMO channels with finite rate feedback <b>2009</b> ,		1
6	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

5	HPA Nonlinearity Reduction by Joint Predistorter and Tone-Reservation with Null Subcarriers in WiMAX Systems <b>2008</b> ,	3
4	Performance Analysis of Cooperative Networks with Random Decode-and-Forward Relaying <b>2008</b> ,	2
3	Effectiveness of tone-reservation using null subcarriers (TR-NS) in WiMAX systems <b>2007</b> ,	1
2	Joint timing and frequency synchronization for IEEE 802.16 OFDM systems <b>2007</b> ,	4
1	Analysis of Tone Reservation Method for WiMAX System <b>2006</b> ,	11