

Gang Wu

List of Publications by Year in descending order

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154
papers

3,499
citations

279798
23
h-index

149698
56
g-index

154
all docs

154
docs citations

154
times ranked

3930
citing authors

#	ARTICLE	IF	CITATIONS
1	OFDM and Its Wireless Applications: A Survey. IEEE Transactions on Vehicular Technology, 2009, 58, 1673-1694.	6.3	738
2	4G/5G Multiple Antennas for Future Multi-Mode Smartphone Applications. IEEE Access, 2016, 4, 2981-2988.	4.2	325
3	Eight-Port Orthogonally Dual-Polarized Antenna Array for 5G Smartphone Applications. IEEE Transactions on Antennas and Propagation, 2016, 64, 3820-3830.	5.1	286
4	A Survey of Advanced Techniques for Spectrum Sharing in 5G Networks. IEEE Wireless Communications, 2017, 24, 44-51.	9.0	244
5	Performance Analysis and Optimization in Downlink NOMA Systems With Cooperative Full-Duplex Relaying. IEEE Journal on Selected Areas in Communications, 2017, 35, 2398-2412.	14.0	231
6	SIW Multibeam Array for 5G Mobile Devices. IEEE Access, 2016, 4, 2788-2796.	4.2	151
7	Robust microcapsules with polyurea/silica hybrid shell for one-part self-healing anticorrosion coatings. Journal of Materials Chemistry A, 2014, 2, 11614-11620.	10.3	137
8	A Versatile Approach towards Multifunctional Robust Microcapsules with Tunable, Restorable, and Solvent-Proof Superhydrophobicity for Self-Healing and Self-Cleaning Coatings. Advanced Functional Materials, 2014, 24, 6751-6761.	14.9	129
9	Efficient Scheduling and Power Allocation for D2D-Assisted Wireless Caching Networks. IEEE Transactions on Communications, 2016, 64, 2438-2452.	7.8	110
10	Recent advances in energy-efficient networks and their application in 5G systems. IEEE Wireless Communications, 2015, 22, 145-151.	9.0	107
11	Special focus on millimeter wave communications techniques and devices for 5G Editorial. Science China Information Sciences, 2017, 60, 1.	4.3	57
12	Energy-Efficient Cognitive Transmission With Imperfect Spectrum Sensing. IEEE Journal on Selected Areas in Communications, 2016, 34, 1320-1335.	14.0	50
13	Reconfigurable narrow-frame antenna for LTE/WWAN metal-rimmed smartphone applications. IET Microwaves, Antennas and Propagation, 2016, 10, 1092-1100.	1.4	44
14	On Designing Energy-Efficient Heterogeneous Cloud Radio Access Networks. IEEE Transactions on Green Communications and Networking, 2018, 2, 721-734.	5.5	43
15	Efficient Network Coding for Wireless Broadcasting. , 2010, , .		41
16	On Fixed-Point Implementation of Log-MPA for SCMA Signals. IEEE Wireless Communications Letters, 2016, 5, 324-327.	5.0	38
17	Preamble Design with ICI Cancellation for Channel Estimation in OFDM/OQAM System. IEICE Transactions on Communications, 2010, E93-B, 211-214.	0.7	28
18	Joint Power Allocation and User Scheduling for Device-to-Device-Enabled Heterogeneous Networks With Non-Orthogonal Multiple Access. IEEE Access, 2019, 7, 62657-62671.	4.2	28

#	ARTICLE	IF	CITATIONS
19	Nonlinearity Reduction by Tone Reservation with Null Subcarriers for WiMAX System. Wireless Personal Communications, 2010, 54, 289-305.	2.7	27
20	Leakage-based user scheduling in MU-MIMO broadcast channel. Science in China Series F: Information Sciences, 2009, 52, 2259-2268.	1.1	26
21	Dual-loop antenna with band-stop matching circuit for WWAN/LTE full metal-trimmed smartphone application. IET Microwaves, Antennas and Propagation, 2016, 10, 1715-1720.	1.4	26
22	Electrodeposition-based electrochromic devices with reversible three-state optical transformation by using titanium dioxide nanoparticle modified FTO electrode. RSC Advances, 2016, 6, 30769-30775.	3.6	26
23	Joint Resource Allocation and Trajectory Control for UAV-Enabled Vehicular Communications. IEEE Access, 2019, 7, 132806-132815.	4.2	24
24	Modeling, Analysis, and Optimization of Grant-Free NOMA in Massive MTC via Stochastic Geometry. IEEE Internet of Things Journal, 2021, 8, 4389-4402.	8.7	24
25	Dancing with light: Predictive in-frame rate selection for visible light networks. , 2015, , .		23
26	Concurrent Superhydrophobicity and Thermal Energy Storage of Microcapsule with Superior Thermal Stability and Durability. ACS Sustainable Chemistry and Engineering, 2017, 5, 7759-7767.	6.7	23
27	Joint User Pairing and Precoding in MU-MIMO Broadcast Channel with Limited Feedback. IEEE Communications Letters, 2010, 14, 1032-1034.	4.1	22
28	NFC Antenna With Nonuniform Meandering Line and Partial Coverage Ferrite Sheet for Metal Cover Smartphone Applications. IEEE Transactions on Antennas and Propagation, 2017, 65, 2827-2835.	5.1	22
29	Profit maximization in wireless powered communications with improved non-linear energy conversion and storage efficiencies. , 2017, , .		20
30	Proactive Cross-Channel Gain Estimation for Spectrum Sharing in Cognitive Radio. IEEE Journal on Selected Areas in Communications, 2016, 34, 2776-2790.	14.0	18
31	Optimal Power Allocation for CR Networks with Direct and Relay-Aided Transmissions. IEEE Transactions on Wireless Communications, 2013, 12, 1-11.	9.2	16
32	Power allocation for massive MIMO: impact of power amplifier efficiency. Science China Information Sciences, 2016, 59, 1-9.	4.3	16
33	Analysis of Tone Reservation Method for WiMAX System. , 2006, , .		15
34	SINR or SLNR: In Successive User Scheduling in MU-MIMO Broadcast Channel with Finite Rate Feedback. , 2010, , .		14
35	Energy Efficient Resource Allocation for Control Data Separated Heterogeneous-CRAN. , 2016, , .		14
36	Dynamic programming-based pico base station sleep mode control in heterogeneous networks. International Journal of Communication Systems, 2017, 30, e2967.	2.5	14

#	ARTICLE	IF	CITATIONS
37	Blind detection of uplink grant-free SCMA with unknown user sparsity. , 2017, , .		14
38	Millimeter Wave Wide-Angle Scanning Circularly Polarized Antenna Array With a Novel Polarizer. IEEE Transactions on Antennas and Propagation, 2022, 70, 1077-1086.	5.1	14
39	ICI mitigation by Doppler frequency shift estimation and pre-compensation in LTE-R systems. , 2012, , .		13
40	Active User Identification Based on Asynchronous Sparse Bayesian Learning With SVM. IEEE Access, 2019, 7, 108116-108124.	4.2	13
41	Joint cHANNEL-AND-dATA estimation for large-MIMO systems with low-precision ADCs. , 2015, , .		12
42	Primary Channel Gain Estimation for Spectrum Sharing in Cognitive Radio Networks. IEEE Transactions on Communications, 2017, , 1-1.	7.8	12
43	Directional Modulation With Cooperative Receivers. IEEE Access, 2018, 6, 34992-35000.	4.2	10
44	A Time-Domain PTS without Side Information in SC-FDMA Systems. , 2011, , .		9
45	Computing Resource Aware Energy Saving Scheme for Cloud Radio Access Networks. , 2016, , .		9
46	Decentralized Caching Schemes and Performance Limits in Two-Layer Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 12177-12192.	6.3	9
47	Arrival Rate-Based Average Energy-Efficient Resource Allocation for 5G Heterogeneous Cloud RAN. IEEE Access, 2019, 7, 136332-136342.	4.2	9
48	Effectiveness of Preamble Based Channel Estimation for OFDM/OQAM System. , 2009, , .		8
49	Performance analysis of FFH/BPSK system with partial band noise jamming and channel estimation error in high-mobility wireless communication scenarios. Science Bulletin, 2014, 59, 5011-5018.	1.7	8
50	A Subset-Based Coherent FFH System. IEEE Communications Letters, 2015, 19, 199-202.	4.1	8
51	Joint timing and frequency synchronization for IEEE 802.16 OFDM systems. , 2007, , .		7
52	Practical soft-SIC detection for MIMO SC-FDMA system with co-channel interference. , 2010, , .		7
53	Proactive channel gain estimation for coexistence between cognitive and primary users. , 2012, , .		7
54	Planar Dual-Polarization Bidirectional Multibeam Array Antenna for Millimeter-Wave Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 6420-6430.	5.1	7

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55	Performance Analysis of Sidelink Relay in SCMA-Based Multicasting for Platooning in V2X. , 2020, , .		7
56	Optimized non-unitary linear precoding for orthogonal space-time block codes. IEEE Communications Letters, 2009, 13, 414-416.	4.1	6
57	Utility-maximization resource allocation for device-to-device communication underlying cellular networks. , 2013, , .		6
58	HPA Nonlinearity Reduction by Joint Predistorter and Tone-Reservation with Null Subcarriers in WiMAX Systems. , 2008, , .		5
59	Power Spectral Density Comparison for the Clipped OFDM-Type Signals. , 2010, , .		5
60	Optimal power allocation for AF full-duplex relay in cognitive radio networks. , 2013, , .		5
61	On design of physical random access channel in high-speed railway LTE systems. Science Bulletin, 2014, 59, 5042-5050.	1.7	5
62	Achievable Degrees of Freedom of MIMO Y Channel With Delayed CSIT. IEEE Communications Letters, 2014, 18, 1583-1586.	4.1	5
63	Joint optimization of peak-to-average power ratio and spectral leakage in 5G multicarrier waveforms. China Communications, 2015, 12, 83-92.	3.2	5
64	Simple Clustering Methods for Multi-Hop Cooperative Device-to-Device Communication. , 2015, , .		5
65	Dual-Band Quad-Polarized Transmitarray for 5G Mm-Wave Application. IEEE Access, 2021, 9, 117520-117526.	4.2	5
66	Performance Analysis of Cooperative Networks with Random Decode-and-Forward Relaying. , 2008, , .		4
67	Dynamic Soft-Frequency Reuse with Inter-Cell Coordination in OFDMA Networks. , 2011, , .		4
68	Coordinated scheduling with adaptive feedback in cooperative multi-cell downlink system. , 2012, , .		4
69	Performance analysis of peak cancellation in OFDM systems. Science China Information Sciences, 2012, 55, 789-794.	4.3	4
70	Design of Low PAPR Fundamental Modulation Waveform for Transform Domain Communication System. Wireless Personal Communications, 2013, 71, 2215-2229.	2.7	4
71	Cross-channel gain estimation with amplify-and-forward relaying in cognitive radio. , 2013, , .		4
72	Low-Complexity Energy-Efficient Resource Allocation for Uplink OFDMA Systems. , 2013, , .		4

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73	Parallel-implemented message passing algorithm for SCMA decoder based on GPGPU. , 2017, , .		4
74	Outage Probability of Space-Time Coded Decouple-and-Forward Relaying over Nakagami-m Fading Channels. , 2009, , .		3
75	A low-complexity multiple signal representation scheme in downlink OFDM-CDMA. Science in China Series F: Information Sciences, 2009, 52, 2433-2444.	1.1	3
76	Capacity bounds of transmit beamforming over MISO time-varying channels with imperfect feedback. Science China Information Sciences, 2010, 53, 1417-1430.	4.3	3
77	Block diagonalization eigenvalue based beamforming precoding design for downlink capacity improvement in multiuser MIMO channel. , 2010, , .		3
78	Energy efficient pico base station switching-on/off in heterogeneous cellular network with minimum rate requirement. , 2014, , .		3
79	Retrospective Network Coding Alignment Over -User MIMO Y Channel. IEEE Communications Letters, 2016, 20, 502-505.	4.1	3
80	Directional modulation with distributed receiver selection for secure wireless communications. Science China Information Sciences, 2021, 64, 1.	4.3	3
81	Polarized spatial and directional modulation toward secure wireless transmission. Science China Information Sciences, 2022, 65, .	4.3	3
82	Effectiveness of tone-reservation using null subcarriers (TR-NS) in WiMAX systems. , 2007, , .		2
83	BS scheduling and iterative power allocation for the multi-cell downlink MIMO systems. , 2009, , .		2
84	Data-aided joint symbol timing and CFO estimation for OFDM/OQAM systems. , 2011, , .		2
85	A novel transmit beamforming scheme for BER improvement in EIRP constrained UWB systems. , 2011, , .		2
86	A Novel Decoding Method for Rateless Codes Basing on Packet Combing. , 2012, , .		2
87	Low-complexity energy-efficient resource allocation in OFDMA networks. , 2012, , .		2
88	Leakage-based power allocation for relaxed SLNR beamforming in multi-cell MU-MIMO systems. , 2014, , .		2
89	Adaptive Jamming Suppression in Coherent FFH System Using Weighted Equal Gain Combining Receiver over Fading Channels with Imperfect CSI. Journal of Electrical and Computer Engineering, 2015, 2015, 1-8.	0.9	2
90	Low complexity time-frequency synchronization for transform domain communications systems. , 2015, , .		2

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91	Achievable degrees of freedom of MIMO two-way X relay channel with delayed CSIT. Science China Information Sciences, 2016, 59, 1.	4.3	2
92	Performance analysis of a subset-based coherent FFH system with spatial modulation in Rayleigh fading channels with multitone jamming. IET Communications, 2016, 10, 2199-2205.	2.2	2
93	Energy-efficient transmission with imperfect spectrum sensing in cognitive radio. , 2016, , .		2
94	Power control in full duplex networks: Area spectrum efficiency and energy efficiency. , 2017, , .		2
95	Fading characteristics and capacity of deterministic downlink mimo fading channel simulation model with non-isotropic scattering. , 0, , .		1
96	A Performance Comparison of DS-CDMA and MC-CDMA with Per-User MMSE Frequency Domain Equalization. , 2007, , .		1
97	A novel MMSE detection technique for DS-CDMA. , 2007, , .		1
98	Covariance-based follower jamming blocking algorithm for slow FH-BFSK systems. , 2009, , .		1
99	Improved codebook design for precoding of OSTBCs in correlated MIMO channels with finite rate feedback. , 2009, , .		1
100	Distributed transceiver design in cooperative multi-cell MIMO downlink. , 2010, , .		1
101	Joint power control and resource allocation for interference mitigation in LTE uplink systems. , 2011, , .		1
102	Blind signal separation in distributed space-time coding systems using the FastICA algorithm. , 2011, , .		1
103	Performance Analysis of Uplink IFDMA in the Presence of Carrier Frequency Offsets. , 2011, , .		1
104	A novel coordinated beamforming scheme based on local feedback and quantization based combining in downlink CoMP system. , 2011, , .		1
105	A data-aided OFDM/OQAM synchronization algorithm using maximum posterior probability criterion. , 2011, , .		1
106	The interference of MIMO transmission modes in downlink LTE systems. , 2012, , .		1
107	Relay-Assisted Proactive Channel Gain Estimation in Cognitive Radio. , 2013, , .		1
108	Biomimetics: A Versatile Approach towards Multifunctional Robust Microcapsules with Tunable, Restorable, and Solvent-Proof Superhydrophobicity for Self-Healing and Self-Cleaning Coatings (Adv.) Tj ETQq0 0 0 1gBT /Overclock 10 Tf		

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109	Performance analysis of coherently detected FFH/BPSK with maximal ratio combining receiver over Rayleigh fading channel with multitone jamming and imperfect channel estimation. , 2014, , .		1
110	On designing quasi-ZCZ sequences under spectral constraints and its applications for cognitive radio networks. , 2014, , .		1
111	Partial band noise jamming rejection with S-CFFH/16-QAM optimum and suboptimum maximum-likelihood receivers over rayleigh fading channels with imperfect CSI. , 2015, , .		1
112	Order-optimal caching in hierarchical networks. , 2016, , .		1
113	Waveform optimization of BFDm for massive connections support over dispersive channels. , 2016, , .		1
114	Degrees of freedom of MIMO Y channel with three semi-blind users. , 2016, , .		1
115	Proactive Cross-Channel Gain Estimation for Spectrum Sharing in Cognitive Radio Networks. , 2017, , .		1
116	Estimating the distance between macro base station and users in heterogeneous networks. , 2017, , .		1
117	Large-scale antenna-assisted grant-free non-orthogonal multiple access via compressed sensing. , 2017, , .		1
118	Resource Allocation for Cooperative D2D-Enabled Wireless Caching Networks. , 2018, , .		1
119	Dual-Polarized Two-Dimensional Multibeam Antenna Array With Hybrid Beamforming and its Planarization. IEEE Access, 2021, 9, 54951-54961.	4.2	1
120	Performance comparison between channel estimation algorithms for TD-SCDMA parallel-interference-cancellation receiver. , 0, , .		0
121	<title>Deterministic MIMO channel simulation model for wireless multicarrier communications</title>. , 2002, 4911, 323.		0
122	New space-time-frequency codes for MIMO-OFDM systems in fast fading channel. , 2003, , .		0
123	Spatial Precoding and Loading for Multi-User Mutiple-Antenna OFDM Systems. , 2006, , .		0
124	An Improved Approach of Reducing Feedback for Precoded MIMO-OFDM System. , 2007, , .		0
125	A Time Domain Tracking Method for Limited-Rate Feedback Precoding in MIMO Systems. , 2007, , .		0
126	BER Criterion for Transmit Beamforming in MISO-OFDM with Limited Feedback. , 2007, , .		0

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127	On the Capacity Bounds of Beamforming over MISO Time-Selective Channels with Estimation Errors and Feedback Delay. , 2008, , .		0
128	Iterative channel estimation for short preamble based OFDM/OQAM system. , 2009, , .		0
129	A New Two-User Cooperative Transmission Scheme with Low-Complexity FDE in SC-FDMA Systems. , 2009, , .		0
130	A new two-user cooperative transmission scheme with low-complexity FDE in DFDMA systems. , 2009, , .		0
131	Improved single-carrier frequency domain equalization systems. , 2009, , .		0
132	Dual codebook based multi-user MIMO precoding and scheduling scheme with limited feedback. , 2009, , .		0
133	A Linear Transceiver Design for MU-MIMO Broadcast Channel. , 2009, , .		0
134	SER performance analysis and optimal relay location of cooperative communications with distributed Alamouti code. , 2009, , .		0
135	Coordinated scheduling and precoding in multicell MIMO system. , 2010, , .		0
136	An optimized non-unitary linear precoding design for OSTBCs. Science China Information Sciences, 2010, 53, 335-343.	4.3	0
137	A Novel Method to Estimate the End to Multi-End Capacity Bounds in MU-MIMO-Relay Broadcast Channel. , 2010, , .		0
138	An adaptive approach to reduce complexity of EBB in LTE downlink TDD systems. , 2010, , .		0
139	A Joint Soft Sparse Encoding Scheme for Relay System. , 2011, , .		0
140	A low-complexity CFO compensation scheme for uplink interleaved OFDMA. , 2011, , .		0
141	A LDPC-based IR scheme for cooperative relay system. , 2011, , .		0
142	CM reduction of uplink RS for aggregated carriers in LTE-advanced. , 2011, , .		0
143	Low-complexity zero-forcing coordinated beamforming by adaptive-perturbation for multi-cell MIMO networks. , 2012, , .		0
144	Optimal power allocation for CR networks with direct and relay-aided transmissions. , 2013, , .		0

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145	TDCS Waveform Design for MUI-Free Cognitive Radio Networks. , 2013, , .		0
146	Interference-free proactive channel gain estimation in cognitive radio. , 2014, , .		0
147	Power allocation for massive MIMO: Impact of power amplifier efficiency. , 2015, , .		0
148	ICI-Resilient Cognitive Radio Sequences for Transform Domain Communication Systems. , 2015, , .		0
149	Rejection of PBNJ with S-CFFH/BPSK ML receiver over frequency selective Rayleigh fading channels with imperfect CSI. , 2015, , .		0
150	Achievable degrees of freedom of MIMO two-way relay interference channel with delayed CSIT. , 2016, , .		0
151	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.	2.2	0
152	Primary Channel Gain Estimation for Spectrum Sharing in Cognitive Radio Networks. , 2017, , .		0
153	Outage Probability Analysis and Optimization in Downlink NOMA Systems with Cooperative Full-Duplex Relaying. , 2017, , .		0
154	Load Balancing Relay for Two-Tier MTC Uplink. IEEE Wireless Communications Letters, 2020, 9, 2073-2077.	5.0	0