

Robert W Heath Jr

List of Publications by Year in descending order

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733
papers

57,032
citations

1883

102
h-index

1745

212
g-index

753
all docs

753
docs citations

753
times ranked

16798
citing authors

#	ARTICLE	IF	CITATIONS
1	Achievable Rate With Antenna Size Constraint: Shannon Meets Chu and Bode. IEEE Transactions on Communications, 2022, 70, 2010-2024.	4.9	5
2	InFocus: A Spatial Coding Technique to Mitigate Misfocus in Near-Field LoS Beamforming. IEEE Transactions on Wireless Communications, 2022, 21, 2193-2209.	6.1	15
3	Single Channel Equivalent Point Processes of Poisson Networks With Multiple Channel Laws. IEEE Communications Letters, 2022, 26, 711-715.	2.5	3
4	Optimizing the Mutual Information of Frequency-Selective Multi-Port Antenna Arrays in the Presence of Mutual Coupling. IEEE Transactions on Communications, 2022, 70, 2072-2084.	4.9	3
5	Massive MIMO Precoding and Spectral Shaping With Low Resolution Phase-Only DACs and Active Constellation Extension. IEEE Transactions on Wireless Communications, 2022, 21, 5265-5278.	6.1	7
6	Editorial Issue on "Information Theoretic Foundations of Future Communication Systems" IEEE Journal on Selected Areas in Information Theory, 2022, 3, 2-4.	1.9	0
7	Artificial Intelligence for Physical-Layer Design of MIMO Communications with One-Bit ADCs. IEEE Communications Magazine, 2022, 60, 76-81.	4.9	3
8	A Lower-Bound for Variable-Length Source Coding in Linear-Quadratic-Gaussian Control With Shared Randomness. , 2022, 6, 2918-2923.		2
9	Scheduling Observers Over a Shared Channel With Hard Delivery Deadlines. IEEE Transactions on Communications, 2021, 69, 133-148.	4.9	3
10	Signal Conditioning for Selective OFDM SWIPT Systems. IEEE Open Journal of the Communications Society, 2021, 2, 1886-1900.	4.4	1
11	Power Scalable Angle of Arrival Estimation Using Pilot Design With Orthogonal Subsequences. IEEE Open Journal of the Communications Society, 2021, 2, 1690-1709.	4.4	1
12	An Overview of Signal Processing Techniques for Joint Communication and Radar Sensing. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1295-1315.	7.3	309
13	Line-of-Sight Probability for mmWave-Based UAV Communications in 3D Urban Grid Deployments. IEEE Transactions on Wireless Communications, 2021, 20, 6566-6579.	6.1	37
14	JCR70: A Low-Complexity Millimeter-Wave Proof-of-Concept Platform for a Fully-Digital SIMO Joint Communication-Radar. IEEE Open Journal of Vehicular Technology, 2021, 2, 218-234.	3.4	24
15	DeepWiPHY: Deep Learning-Based Receiver Design and Dataset for IEEE 802.11ax Systems. IEEE Transactions on Wireless Communications, 2021, 20, 1596-1611.	6.1	20
16	System and Design for Selective OFDM SWIPT Transmission. IEEE Transactions on Green Communications and Networking, 2021, 5, 335-347.	3.5	9
17	Site-Specific Online Compressive Beam Codebook Learning in mmWave Vehicular Communication. IEEE Transactions on Wireless Communications, 2021, 20, 3122-3136.	6.1	11
18	Towards mmWave V2X in 5G and Beyond to Support Automated Driving. IEICE Transactions on Communications, 2021, E104.B, 587-603.	0.4	27

#	ARTICLE	IF	CITATIONS
19	Perceptive Mobile Networks: Cellular Networks With Radio Vision via Joint Communication and Radar Sensing. IEEE Vehicular Technology Magazine, 2021, 16, 20-30.	2.8	85
20	Optimizing Coverage and Capacity in Cellular Networks using Machine Learning. , 2021, , .		33
21	Adaptive and Fast Combined Waveform-Beamforming Design for MMWave Automotive Joint Communication-Radar. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 996-1012.	7.3	36
22	Deep Learning Based Range and Doa Estimation using low Resolution FMCW Radars. , 2021, , .		2
23	MmWave Codebook Selection in Rapidly-Varying Channels via Multinomial Thompson Sampling. , 2021, , .		5
24	Signal Conditioning and Prototyping for Selective OFDM Systems with Simultaneous Wireless Information and Power Transfer. , 2021, , .		1
25	A Novel Antenna Matching Technique for Joint Wireless Communication and Energy Harvesting. , 2021, , .		0
26	Improved CRB for Millimeter-Wave Radar With 1-Bit ADCs. IEEE Open Journal of Signal Processing, 2021, 2, 318-335.	2.3	2
27	Quantum Codes in Classical Communication: A Space-Time Block Code From Quantum Error Correction. IEEE Open Journal of the Communications Society, 2021, 2, 2383-2412.	4.4	0
28	Capacity of Terahertz Line-of-Sight UCA-MIMO Channels with One-Bit Transceivers. , 2021, , .		0
29	Multi-user Downlink Beamforming using Uplink Downlink Duality with 1-bit Converters. , 2021, , .		3
30	Editorial: Introduction to the Issue on Joint Communication and Radar Sensing for Emerging Applications. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1290-1294.	7.3	1
31	Leveraging Waveform Structure to Develop a Power Scalable AoA Estimation. IEEE Open Journal of the Communications Society, 2021, 2, 2739-2759.	4.4	0
32	MIMO Communication with Polarization Reconfigurable Antennas. , 2021, , .		0
33	Optimization of a Millimeter-Wave UAV-to-Ground Network in Urban Deployments. , 2021, , .		2
34	Challenges and Opportunities of Future Rural Wireless Communications. IEEE Communications Magazine, 2021, 59, 16-22.	4.9	20
35	Spatial Channel Covariance Estimation for Hybrid Architectures Based on Tensor Decompositions. IEEE Transactions on Wireless Communications, 2020, 19, 1084-1097.	6.1	15
36	Adaptive Virtual Waveform Design for Millimeter-Wave Joint Communication&radar. IEEE Transactions on Signal Processing, 2020, 68, 715-730.	3.2	105

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37	Double-Sequence Frequency Synchronization for Wideband Millimeter-Wave Systems With Few-Bit ADCs. IEEE Transactions on Wireless Communications, 2020, 19, 1357-1372.	6.1	7
38	A Quaternion-Based Approach to Construct Quaternary Periodic Complementary Pairs. IEEE Communications Letters, 2020, 24, 2010-2014.	2.5	1
39	Collision-Free UAV Navigation with a Monocular Camera Using Deep Reinforcement Learning. , 2020, , .		11
40	Deep Learning-based Carrier Frequency Offset Estimation with One-Bit ADCs. , 2020, , .		18
41	Communications and Sensing: An Opportunity for Automotive Systems [From the Editor]. IEEE Signal Processing Magazine, 2020, 37, 3-13.	4.6	9
42	Hover or Perch: Comparing Capacity of Airborne and Landed Millimeter-Wave UAV Cells. IEEE Wireless Communications Letters, 2020, 9, 2059-2063.	3.2	12
43	Accurate Channel Estimation for Frequency-Hopping Dual-Function Radar Communications. , 2020, , .		11
44	Non-Stationarities in Extra-Large-Scale Massive MIMO. IEEE Wireless Communications, 2020, 27, 74-80.	6.6	97
45	Reflections on Tutorials and Surveys [From the Editor]. IEEE Signal Processing Magazine, 2020, 37, 3-4.	4.6	0
46	Leveraging Sensing at the Infrastructure for mmWave Communication. IEEE Communications Magazine, 2020, 58, 84-89.	4.9	59
47	Signing Off as Editor-in-Chief [From the Editor]. IEEE Signal Processing Magazine, 2020, 37, 3-4.	4.6	2
48	Linear CE and 1-bit Quantized Precoding With Optimized Dithering. IEEE Open Journal of Signal Processing, 2020, 1, 310-325.	2.3	8
49	Deep Learning-Based Beam Alignment in Mmwave Vehicular Networks. , 2020, , .		10
50	Submitting Columns and Forums to SPM [From the Editor]. IEEE Signal Processing Magazine, 2020, 37, 3-4.	4.6	0
51	Message Passing-Based Link Configuration in Short Range Millimeter Wave Systems. IEEE Transactions on Communications, 2020, 68, 3465-3479.	4.9	7
52	Framework for a Perceptive Mobile Network Using Joint Communication and Radar Sensing. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1926-1941.	2.6	113
53	What Does an Editor-in-Chief of IEEE Signal Processing Magazine Do, Anyway? [From the Editor]. IEEE Signal Processing Magazine, 2020, 37, 3-4.	4.6	0
54	Low-Rank MMWAVE MIMO Channel Estimation in One-Bit Receivers. , 2020, , .		10

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55	Revisiting Research on Signal Processing for Communications in a Pandemic [From the Editor]. IEEE Signal Processing Magazine, 2020, 37, 3-5.	4.6	3
56	A Low-Resolution ADC Proof-of-Concept Development for a Fully-Digital Millimeter-wave Joint Communication-Radar. , 2020, , .		9
57	Waveform Design and Accurate Channel Estimation for Frequency-Hopping MIMO Radar-Based Communications. IEEE Transactions on Communications, 2020, , 1-1.	4.9	44
58	A MIMO Joint Communication-Radar Measurement Platform at the Millimeter-Wave Band : (Invited) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		1
59	Automotive Radar Interference Characterization and Reduction by Partial Coordination. , 2020, , .		7
60	Beamforming optimization of wideband MISO systems in the presence of mutual coupling. , 2020, , .		2
61	Frequency Synchronization for Low Resolution Millimeter-Wave. , 2020, , .		0
62	Spatial Covariance Estimation for Millimeter Wave Hybrid Systems Using Out-of-Band Information. IEEE Transactions on Wireless Communications, 2019, 18, 5471-5485.	6.1	33
63	A Noncoherent Space-Time Code from Quantum Error Correction. , 2019, , .		5
64	MmWave Vehicular Beam Selection With Situational Awareness Using Machine Learning. IEEE Access, 2019, 7, 87479-87493.	2.6	67
65	On the Violation of Hard Deadlines in Networked Control Systems. , 2019, , .		0
66	Channel Estimation for Orthogonal Time Frequency Space (OTFS) Massive MIMO. IEEE Transactions on Signal Processing, 2019, 67, 4204-4217.	3.2	198
67	A Geometry-aided Message Passing Method for AoA-Based Short Range MIMO Channel Estimation. , 2019, , .		3
68	MIMO Beampattern and Waveform Design with Low Resolution DACs. , 2019, , .		2
69	Capacity Based Optimization of Compact Wideband Antennas. , 2019, , .		5
70	Organizing a Special Issue of IEEE SPM [From the Editor]. IEEE Signal Processing Magazine, 2019, 36, 3-4.	4.6	3
71	Making a Good Feature Article Submission [From the Editor]. IEEE Signal Processing Magazine, 2019, 36, 3-4.	4.6	4
72	Joint Channel-Estimation/Decoding With Frequency-Selective Channels and Few-Bit ADCs. IEEE Transactions on Signal Processing, 2019, 67, 899-914.	3.2	13

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73	Directional Frame Timing Synchronization in Wideband Millimeter-Wave Systems With Low-Resolution ADCs. IEEE Transactions on Wireless Communications, 2019, 18, 5350-5366.	6.1	8
74	Channel Estimation for Orthogonal Time Frequency Space (OTFS) Massive MIMO. , 2019, , .		13
75	Feedback from the IEEE Signal Processing Magazine Board Meeting in 2019 [From the Editor]. IEEE Signal Processing Magazine, 2019, 36, 3-4.	4.6	0
76	Optimal Frequency-Flat Precoding for Frequency-Selective Millimeter Wave Channels. IEEE Transactions on Wireless Communications, 2019, 18, 5098-5112.	6.1	23
77	Side-information-aided Noncoherent Beam Alignment Design for Millimeter Wave Systems. , 2019, , .		6
78	Asymptotic Performance of Downlink Massive MIMO with 1-bit Quantized Zero-Forcing Precoding. , 2019, , .		2
79	Position and LIDAR-Aided mmWave Beam Selection using Deep Learning. , 2019, , .		37
80	Connectivity and Blockage Effects in Millimeter-Wave Air-To-Everything Networks. IEEE Wireless Communications Letters, 2019, 8, 388-391.	3.2	13
81	Outage of Periodic Downlink Wireless Networks With Hard Deadlines. IEEE Transactions on Communications, 2019, 67, 1238-1253.	4.9	13
82	Vehicular Applications of Signal Processing [From the Editor]. IEEE Signal Processing Magazine, 2019, 36, 3-6.	4.6	1
83	Going Toward 6G [From the Editor]. IEEE Signal Processing Magazine, 2019, 36, 3-4.	4.6	20
84	Deep Learning Propagation Models over Irregular Terrain. , 2019, , .		17
85	Message Passing-Based Joint CFO and Channel Estimation in mmWave Systems With One-Bit ADCs. IEEE Transactions on Wireless Communications, 2019, 18, 3064-3077.	6.1	27
86	Localized Random Sampling for Robust Compressive Beam Alignment. , 2019, , .		2
87	Tensor-based Estimation of mmWave MIMO Channels with Carrier Frequency Offset. , 2019, , .		8
88	Guest Editorial Ultra-Reliable Low-Latency Communications in Wireless Networks. IEEE Journal on Selected Areas in Communications, 2019, 37, 701-704.	9.7	11
89	IEEE Signal Processing Magazine and University Rankings [From the Editor]. IEEE Signal Processing Magazine, 2019, 36, 3-4.	4.6	7
90	Online Learning for Position-Aided Millimeter Wave Beam Training. IEEE Access, 2019, 7, 30507-30526.	2.6	81

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91	Linear Receivers in Non-Stationary Massive MIMO Channels With Visibility Regions. IEEE Wireless Communications Letters, 2019, 8, 885-888.	3.2	38
92	LIDAR Data for Deep Learning-Based mmWave Beam-Selection. IEEE Wireless Communications Letters, 2019, 8, 909-912.	3.2	94
93	Selective OFDM Transmission for Simultaneous Wireless Information and Power Transfer. , 2019, , .		3
94	Linear Transmit Precoding with Optimized Dithering. , 2019, , .		1
95	A Combined Waveform-Beamforming Design for Millimeter-Wave Joint Communication-Radar. , 2019, , .		6
96	Short Range 3D MIMO mmWave Channel Reconstruction via Geometry-aided AoA Estimation. , 2019, , .		3
97	Capacity Based Analysis of a Wideband SIMO System in the Presence of Mutual Coupling. , 2019, , .		5
98	Analysis of Intelligent Vehicular Relaying in Urban 5G+ Millimeter-Wave Cellular Deployments. , 2019, , .		13
99	Modeling and Analysis of MmWave V2X Networks With Vehicular Platoon Systems. IEEE Journal on Selected Areas in Communications, 2019, 37, 2851-2866.	9.7	42
100	FALP: Fast Beam Alignment in mmWave Systems With Low-Resolution Phase Shifters. IEEE Transactions on Communications, 2019, 67, 8739-8753.	4.9	20
101	MIMO Channel Estimation with Non-Ideal ADCs: Deep Learning Versus GAMP. , 2019, , .		10
102	Swift-Link: A Compressive Beam Alignment Algorithm for Practical mmWave Radios. IEEE Transactions on Signal Processing, 2019, 67, 1104-1119.	3.2	23
103	Multibeam for Joint Communication and Radar Sensing Using Steerable Analog Antenna Arrays. IEEE Transactions on Vehicular Technology, 2019, 68, 671-685.	3.9	143
104	IEEE 802.11ad-Based Radar: An Approach to Joint Vehicular Communication-Radar System. IEEE Transactions on Vehicular Technology, 2018, 67, 3012-3027.	3.9	395
105	Frequency-Domain Compressive Channel Estimation for Frequency-Selective Hybrid Millimeter Wave MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 2946-2960.	6.1	186
106	Out-of-Band Radiation from Large Antenna Arrays. IEEE Communications Magazine, 2018, 56, 196-203.	4.9	42
107	Channel Estimation and Hybrid Precoding for Frequency Selective Multiuser mmWave MIMO Systems. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 353-367.	7.3	122
108	Forward Collision Vehicular Radar With IEEE 802.11: Feasibility Demonstration Through Measurements. IEEE Transactions on Vehicular Technology, 2018, 67, 1404-1416.	3.9	56

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109	Inverse Multipath Fingerprinting for Millimeter Wave V2I Beam Alignment. IEEE Transactions on Vehicular Technology, 2018, 67, 4042-4058.	3.9	134
110	Millimeter Wave Beam-Selection Using Out-of-Band Spatial Information. IEEE Transactions on Wireless Communications, 2018, 17, 1038-1052.	6.1	169
111	Ergodic Rate of Millimeter Wave Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2018, 17, 914-926.	6.1	12
112	Macrodiversity in Cellular Networks With Random Blockages. IEEE Transactions on Wireless Communications, 2018, 17, 996-1010.	6.1	60
113	Channel Estimation in Broadband Millimeter Wave MIMO Systems With Few-Bit ADCs. IEEE Transactions on Signal Processing, 2018, 66, 1141-1154.	3.2	235
114	Taking the Next Step for IEEE Signal Processing Magazine [From the Editor]. IEEE Signal Processing Magazine, 2018, 35, 4-171.	4.6	1
115	Compressive Sensing for Millimeter Wave Antenna Array Diagnosis. IEEE Transactions on Communications, 2018, 66, 2708-2721.	4.9	45
116	One-Bit Sphere Decoding for Uplink Massive MIMO Systems With One-Bit ADCs. IEEE Transactions on Wireless Communications, 2018, 17, 4509-4521.	6.1	86
117	MmWave Vehicle-to-Infrastructure Communication: Analysis of Urban Microcellular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 7086-7100.	3.9	77
118	Modeling Infrastructure Sharing in mmWave Networks With Shared Spectrum Licenses. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 328-343.	4.9	26
119	Limited Feedback in Single and Multi-User MIMO Systems With Finite-Bit ADCs. IEEE Transactions on Wireless Communications, 2018, 17, 3284-3297.	6.1	25
120	Inter-Operator Base Station Coordination in Spectrum-Shared Millimeter Wave Cellular Networks. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 513-528.	4.9	23
121	Beamforming in Millimeter Wave Systems: Prototyping and Measurement Results. , 2018, , .		5
122	Vehicle-to-Vehicle Communication for Autonomous Vehicles: Safety and Maneuver Planning. , 2018, , .		4
123	Low Resolution Millimeter Wave Radar: Bounds and Performance. , 2018, , .		5
124	Extremely Large Aperture Massive MIMO: Low Complexity Receiver Architectures. , 2018, , .		74
125	Making Papers, Code, and Data Accessible [From the Editor]. IEEE Signal Processing Magazine, 2018, 35, 3-4.	4.6	1
126	Towards Robustness: Machine Learning for MmWave V2X with Situational Awareness. , 2018, , .		8

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127	MmWave Vehicular Beam Training with Situational Awareness by Machine Learning. , 2018, , .		18
128	Geometric Tracking of Vehicular mmWave Channels to Enable Machine Learning of Onboard Sensors. , 2018, , .		5
129	Virtual Pulse Design for IEEE 802.11AD-Based Joint Communication-Radar. , 2018, , .		9
130	SPATIAL CHANNEL COVARIANCE ESTIMATION FOR THE HYBRID ARCHITECTURE AT A BASE STATION: A TENSOR-DECOMPOSITION-BASED APPROACH. , 2018, , .		4
131	Millimeter Wave V2X Communications: Use Cases and Design Considerations of Beam Management. , 2018, , .		28
132	Detection and Channel Equalization with Deep Learning for Low Resolution MIMO Systems. , 2018, , .		20
133	Spatial Zadoff-Chu Modulation for Rapid Beam Alignment in mmWave Phased Arrays. , 2018, , .		7
134	Highlights from the IEEE SPM's Editorial Board Meeting [From the Editor]. IEEE Signal Processing Magazine, 2018, 35, 3-4.	4.6	1
135	Introducing the New Editorial Team of IEEE Signaling Processing Magazine [From the Editor]. IEEE Signal Processing Magazine, 2018, 35, 4-5.	4.6	2
136	The Information and Wave-Theoretic Limits of Analog Beamforming. , 2018, , .		1
137	GlobalSIP and Beyond [From the Editor]. IEEE Signal Processing Magazine, 2018, 35, 3-15.	4.6	2
138	5G MIMO Data for Machine Learning: Application to Beam-Selection Using Deep Learning. , 2018, , .		144
139	A primer on information theory and MMSE estimation. , 2018, , 3-56.		0
140	A signal processing perspective. , 2018, , 57-130.		1
141	Channel modeling. , 2018, , 131-208.		0
142	Single-user SISO. , 2018, , 209-294.		0
143	SU-MIMO with optimum receivers. , 2018, , 297-385.		0
144	SU-MIMO with linear receivers. , 2018, , 386-412.		0

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145	Multiuser communication prelude. , 2018, , 415-435.		0
146	MU-MIMO with optimum transceivers. , 2018, , 436-496.		0
147	MU-MIMO with linear transceivers. , 2018, , 497-577.		0
148	Massive MIMO. , 2018, , 578-642.		0
149	Analysis of Blockage Sensing by Radars in Random Cellular Networks. IEEE Signal Processing Letters, 2018, 25, 1620-1624.	2.1	14
150	Low-Overhead Receiver-Side Channel Tracking for Mmwave Mimo. , 2018, , .		2
151	MmWave MU-MIMO for Aerial Networks. , 2018, , .		23
152	Spatial Channel Covariance Estimation for the Hybrid MIMO Architecture: A Compressive Sensing-Based Approach. IEEE Transactions on Wireless Communications, 2018, 17, 8047-8062.	6.1	50
153	Convolved [Humor]. IEEE Signal Processing Magazine, 2018, 35, 186-186.	4.6	1
154	MmWave Beam Prediction with Situational Awareness: A Machine Learning Approach. , 2018, , .		65
155	Low Resolution Sampling for Joint Millimeter-Wave MIMO Communication-Radar. , 2018, , .		13
156	Feedback Design for Multi-Antenna \mathcal{K} -Tier Heterogeneous Downlink Cellular Networks. IEEE Transactions on Wireless Communications, 2018, 17, 3861-3876.	6.1	5
157	Multi-cell coordination in K-tier heterogeneous downlink cellular networks: Dynamic clustering and feedback allocation. , 2018, , .		0
158	Algorithms for the construction of incoherent frames under various design constraints. Signal Processing, 2018, 152, 363-372.	2.1	23
159	Channel Feedback Based on AoD-Adaptive Subspace Codebook in FDD Massive MIMO Systems. IEEE Transactions on Communications, 2018, 66, 5235-5248.	4.9	77
160	A Low Complexity ML Detection for Uplink Massive MIMO Systems with One-Bit ADCs. , 2018, , .		3
161	A UAV-Based Traffic Monitoring System - Invited Paper. , 2018, , .		16
162	Channel Estimation for Millimeter Wave MIMO Systems in the Presence of CFO Uncertainties. , 2018, , .		3

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163	Securing mmWave Vehicular Communication Links with Multiple Transmit Antennas. , 2018, , .		9
164	Impact of Correlation between Link Blockages on Macro-Diversity Gains in mmWave Networks. , 2018, , .		10
165	Position-Aided Compressive Channel Estimation and Tracking for Millimeter Wave Multi-User MIMO Air-to-Air Communications. , 2018, , .		11
166	Impact of Measurement Noise on Millimeter Wave Beam Alignment Using Beam Subsets. IEEE Wireless Communications Letters, 2018, 7, 784-787.	3.2	1
167	Research Gems Found Digging with Industry [From the Editor]. IEEE Signal Processing Magazine, 2018, 35, 4-18.	4.6	1
168	Optimization of Power Transfer Efficiency and Energy Efficiency for Wireless-Powered Systems With Massive MIMO. IEEE Transactions on Wireless Communications, 2018, 17, 7159-7172.	6.1	78
169	A Model for Infrastructure Sharing in mmWave Cellular Networks. , 2018, , .		1
170	High-Resolution Angle Tracking for Mobile Wideband Millimeter-Wave Systems With Antenna Array Calibration. IEEE Transactions on Wireless Communications, 2018, 17, 7173-7189.	6.1	49
171	Sparsity-aware adaptive beamforming design for IEEE 802.11ad-based joint communication-radar. , 2018, , .		21
172	Automotive radar using IEEE 802.11p signals. , 2018, , .		2
173	A New Look at Physical Layer Security, Caching, and Wireless Energy Harvesting for Heterogeneous Ultra-Dense Networks. , 2018, 56, 49-55.		65
174	The Impact of Beamwidth on Temporal Channel Variation in Vehicular Channels and Its Implications. IEEE Transactions on Vehicular Technology, 2017, 66, 5014-5029.	3.9	173
175	Exploiting Antenna Motion for Faster Initialization of Centimeter-Accurate GNSS Positioning With Low-Cost Antennas. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1597-1613.	2.6	21
176	Measurements of the 60 GHz UE to eNB Channel for Small Cell Deployments. IEEE Wireless Communications Letters, 2017, 6, 178-181.	3.2	38
177	Exploiting Spatial Channel Covariance for Hybrid Precoding in Massive MIMO Systems. IEEE Transactions on Signal Processing, 2017, 65, 3818-3832.	3.2	106
178	Wireless Power Transfer in Millimeter Wave Tactical Networks. IEEE Signal Processing Letters, 2017, 24, 1284-1287.	2.1	17
179	Auxiliary Beam Pair Enabled AoD and AoA Estimation in Closed-Loop Large-Scale Millimeter-Wave MIMO Systems. IEEE Transactions on Wireless Communications, 2017, 16, 4770-4785.	6.1	98
180	Cost-effective vehicular radar through minimally-modified IEEE 802.11 devices. , 2017, , .		1

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181	Delay and Doppler processing for multi-target detection with IEEE 802.11 OFDM signaling. , 2017, , .		23
182	Hybrid precoding using long-term channel statistics for massive MIMO systems. , 2017, , .		2
183	Performance trade-off in an adaptive IEEE 802.11AD waveform design for a joint automotive radar and communication system. , 2017, , .		23
184	Multi-Layer Precoding: A Potential Solution for Full-Dimensional Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2017, 16, 5810-5824.	6.1	30
185	Energy-Efficient Massive MIMO: Wireless-Powered Communication, Multiuser MIMO with Hybrid Precoding, and Cloud Radio Access Network with Variable-Resolution ADCs. IEEE Microwave Magazine, 2017, 18, 18-30.	0.7	32
186	Experimental evaluation in wireless communications. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	1.5	1
187	Dynamic Subarrays for Hybrid Precoding in Wideband mmWave MIMO Systems. IEEE Transactions on Wireless Communications, 2017, 16, 2907-2920.	6.1	320
188	Initial Beam Association in Millimeter Wave Cellular Systems: Analysis and Design Insights. IEEE Transactions on Wireless Communications, 2017, 16, 2807-2821.	6.1	105
189	Secure Communications in Millimeter Wave Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2017, 16, 3205-3217.	6.1	133
190	FER Estimation in a Memoryless BSC With Variable Frame Length and Unreliable ACK/NAK Feedback. IEEE Transactions on Wireless Communications, 2017, 16, 3661-3673.	6.1	1
191	Optimality of Frequency Flat Precoding in Frequency Selective Millimeter Wave Channels. IEEE Wireless Communications Letters, 2017, 6, 330-333.	3.2	28
192	Hybrid Architectures With Few-Bit ADC Receivers: Achievable Rates and Energy-Rate Tradeoffs. IEEE Transactions on Wireless Communications, 2017, 16, 2274-2287.	6.1	181
193	Enclosed mmWave Wearable Networks: Feasibility and Performance. IEEE Transactions on Wireless Communications, 2017, 16, 2300-2313.	6.1	12
194	Enhancing Secrecy With Multiantenna Transmission in Millimeter Wave Vehicular Communication Systems. IEEE Transactions on Vehicular Technology, 2017, 66, 8139-8151.	3.9	80
195	AoD-adaptive subspace codebook for channel feedback in FDD massive MIMO systems. , 2017, , .		14
196	Wirelessly Powered Communication Networks With Short Packets. IEEE Transactions on Communications, 2017, 65, 5529-5543.	4.9	34
197	Achievable uplink rates for massive MIMO with coarse quantization. , 2017, , .		24
198	Analysis of interference mitigation in mmWave communications. , 2017, , .		13

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199	Compressed beam-selection in millimeterwave systems with out-of-band partial support information. , 2017, , .		1
200	Optimization of Mixed-ADC Multi-Antenna Systems for Cloud-RAN Deployments. IEEE Transactions on Communications, 2017, 65, 3962-3975.	4.9	24
201	Channel Estimation for Hybrid Architecture-Based Wideband Millimeter Wave Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 1996-2009.	9.7	291
202	Wireless Powered Dense Cellular Networks: How Many Small Cells Do We Need?. IEEE Journal on Selected Areas in Communications, 2017, 35, 2010-2024.	9.7	41
203	Uplink Performance of Wideband Massive MIMO With One-Bit ADCs. IEEE Transactions on Wireless Communications, 2017, 16, 87-100.	6.1	277
204	A Stochastic Geometry Analysis of Large-Scale Cooperative Wireless Networks Powered by Energy Harvesting. IEEE Transactions on Communications, 2017, 65, 3343-3358.	4.9	12
205	Joint Communications and Sensing Using Two Steerable Analog Antenna Arrays. , 2017, , .		9
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