Björn Ottersten

List of Publications by Year
in descending order

363 papers	17,396 citations	15504 65 h-index	21540 114 g-index
364 all docs	364 docs citations	364 times ranked	8156 citing authors

#	Article	IF	Citations
1	On the complexity of sphere decoding in digital communications. IEEE Transactions on Signal Processing, 2005, 53, 1474-1484.	5.3	573
2	Sensor array processing based on subspace fitting. IEEE Transactions on Signal Processing, 1991, 39, 1110-1121.	5.3	568
3	Combining beamforming and orthogonal space-time block coding. IEEE Transactions on Information Theory, 2002, 48, 611-627.	2.4	449
4	Convex Optimization-Based Beamforming. IEEE Signal Processing Magazine, 2010, 27, 62-75.	5.6	447
5	Detection and estimation in sensor arrays using weighted subspace fitting. IEEE Transactions on Signal Processing, 1991, 39, 2436-2449.	5.3	408
6	Covariance Matching Estimation Techniques for Array Signal Processing Applications. , 1998, 8, 185-210.		337
7	Improving Physical Layer Secrecy Using Full-Duplex Jamming Receivers. IEEE Transactions on Signal Processing, 2013, 61, 4962-4974.	5.3	334
8	Propagation delay estimation in asynchronous direct-sequence code-division multiple access systems. IEEE Transactions on Communications, 1996, 44, 84-93.	7.8	288
9	Estimation of nominal direction of arrival and angular spread using an array of sensors. Signal Processing, 1996, 50, 57-69.	3.7	263
10	Cooperative Multicell Precoding: Rate Region Characterization and Distributed Strategies With Instantaneous and Statistical CSI. IEEE Transactions on Signal Processing, 2010, 58, 4298-4310.	5.3	261
11	Generic Optimization of Linear Precoding in Multibeam Satellite Systems. IEEE Transactions on Wireless Communications, 2012, 11, 2308-2320.	9.2	245
12	Robust Cognitive Beamforming With Bounded Channel Uncertainties. IEEE Transactions on Signal Processing, 2009, 57, 4871-4881.	5.3	235
13	Performance analysis of the total least squares ESPRIT algorithm. IEEE Transactions on Signal Processing, 1991, 39, 1122-1135.	5.3	232
14	Modeling of Wide-Band MIMO Radio Channels Based on NLoS Indoor Measurements. IEEE Transactions on Vehicular Technology, 2004, 53, 655-665.	6.3	230
15	Feature engineering strategies for credit card fraud detection. Expert Systems With Applications, 2016, 51, 134-142.	7.6	222
16	Information and Energy Cooperation in Cognitive Radio Networks. IEEE Transactions on Signal Processing, 2014, 62, 2290-2303.	5.3	218
17	A Framework for Training-Based Estimation in Arbitrarily Correlated Rician MIMO Channels With Rician Disturbance. IEEE Transactions on Signal Processing, 2010, 58, 1807-1820.	5.3	205
18	Massive MIMO Transmission for LEO Satellite Communications. IEEE Journal on Selected Areas in Communications, 2020, 38, 1851-1865.	14.0	205

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19	Beamforming for MISO Interference Channels with QoS and RF Energy Transfer. IEEE Transactions on Wireless Communications, 2014, 13, 2646-2658.	9.2	195
20	The spectrum efficiency of a base station antenna array system for spatially selective transmission. IEEE Transactions on Vehicular Technology, 1995, 44, 651-660.	6.3	193
21	Models for MIMO propagation channels: a review. Wireless Communications and Mobile Computing, 2002, 2, 653-666.	1.2	193
22	Multiple invariance ESPRIT. IEEE Transactions on Signal Processing, 1992, 40, 867-881.	5.3	191
23	Multicast Multigroup Precoding and User Scheduling for Frame-Based Satellite Communications. IEEE Transactions on Wireless Communications, 2015, 14, 4695-4707.	9.2	189
24	Application of Compressive Sensing in Cognitive Radio Communications: A Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 1838-1860.	39.4	183
25	Statistically Robust Design of Linear MIMO Transceivers. IEEE Transactions on Signal Processing, 2008, 56, 3678-3689.	5.3	181
26	Cognitive Radio Techniques Under Practical Imperfections: A Survey. IEEE Communications Surveys and Tutorials, 2015, 17, 1858-1884.	39.4	179
27	Multiobjective Signal Processing Optimization: The way to balance conflicting metrics in 5G systems. IEEE Signal Processing Magazine, 2014, 31, 14-23.	5.6	170
28	Constructive Multiuser Interference in Symbol Level Precoding for the MISO Downlink Channel. IEEE Transactions on Signal Processing, 2015, 63, 2239-2252.	5.3	169
29	A Tutorial on Interference Exploitation via Symbol-Level Precoding: Overview, State-of-the-Art and Future Directions. IEEE Communications Surveys and Tutorials, 2020, 22, 796-839.	39.4	158
30	The effects of local scattering on direction of arrival estimation with MUSIC. IEEE Transactions on Signal Processing, 1999, 47, 3220-3234.	5.3	157
31	Low-complexity estimators for distributed sources. IEEE Transactions on Signal Processing, 2000, 48, 2185-2194.	5.3	157
32	Analysis of subspace fitting and ML techniques for parameter estimation from sensor array data. IEEE Transactions on Signal Processing, 1992, 40, 590-600.	5.3	148
33	Weighted Fair Multicast Multigroup Beamforming Under Per-antenna Power Constraints. IEEE Transactions on Signal Processing, 2014, 62, 5132-5142.	5.3	148
34	Physical Layer Security in Multibeam Satellite Systems. IEEE Transactions on Wireless Communications, 2012, 11, 852-863.	9.2	146
35	Example-dependent cost-sensitive decision trees. Expert Systems With Applications, 2015, 42, 6609-6619.	7.6	146
36	Codebook-Based Hybrid Precoding for Millimeter Wave Multiuser Systems. IEEE Transactions on Signal Processing, 2017, 65, 5289-5304.	5.3	145

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37	Eigenvalue-Based Sensing and SNR Estimation for Cognitive Radio in Presence of Noise Correlation. IEEE Transactions on Vehicular Technology, 2013, 62, 3671-3684.	6.3	140
38	Collaborative-Relay Beamforming With Perfect CSI: Optimum and Distributed Implementation. IEEE Signal Processing Letters, 2009, 16, 257-260.	3.6	139
39	Opportunistic Beamforming and Scheduling for OFDMA Systems. IEEE Transactions on Communications, 2007, 55, 941-952.	7.8	136
40	Capacity Limits and Multiplexing Gains of MIMO Channels with Transceiver Impairments. IEEE Communications Letters, 2013, 17, 91-94.	4.1	132
41	Optimality Properties, Distributed Strategies, and Measurement-Based Evaluation of Coordinated Multicell OFDMA Transmission. IEEE Transactions on Signal Processing, 2011, 59, 6086-6101.	5.3	128
42	A Comprehensive Survey of Enabling and Emerging Technologies for Social Distancingâ€"Part I: Fundamentals and Enabling Technologies. IEEE Access, 2020, 8, 153479-153507.	4.2	114
43	Asymptotic Eigenvalue Distributions and Capacity for MIMO Channels Under Correlated Fading. IEEE Transactions on Wireless Communications, 2004, 3, 1350-1359.	9.2	111
44	Power Allocation in Multibeam Satellite Systems: A Two-Stage Multi-Objective Optimization. IEEE Transactions on Wireless Communications, 2015, 14, 3171-3182.	9.2	110
45	Distributed Multicell Beamforming With Limited Intercell Coordination. IEEE Transactions on Signal Processing, 2011, 59, 728-738.	5.3	109
46	Robust Monotonic Optimization Framework for Multicell MISO Systems. IEEE Transactions on Signal Processing, 2012, 60, 2508-2523.	5.3	109
47	Satellite cognitive communications: Interference modeling and techniques selection. , 2012, , .		107
48	Analysis of state space system identification methods based on instrumental variables and subspace fitting. Automatica, 1997, 33, 1603-1616.	5.0	106
49	Symbol-Level and Multicast Precoding for Multiuser Multiantenna Downlink: A State-of-the-Art, Classification, and Challenges. IEEE Communications Surveys and Tutorials, 2018, 20, 1733-1757.	39.4	104
50	Directional Modulation Via Symbol-Level Precoding: A Way to Enhance Security. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1478-1493.	10.8	103
51	Maximum likelihood array processing in spatially correlated noise fields using parameterized signals. IEEE Transactions on Signal Processing, 1997, 45, 996-1004.	5.3	101
52	Full-Duplex Cooperative Cognitive Radio with Transmit Imperfections. IEEE Transactions on Wireless Communications, 2013, 12, 2498-2511.	9.2	97
53	Receive Combining vs. Multi-Stream Multiplexing in Downlink Systems With Multi-Antenna Users. IEEE Transactions on Signal Processing, 2013, 61, 3431-3446.	5.3	97
54	Robust Collaborative-Relay Beamforming. IEEE Transactions on Signal Processing, 2009, 57, 3130-3143.	5.3	94

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55	Acquiring Partial CSI for Spatially Selective Transmission by Instantaneous Channel Norm Feedback. IEEE Transactions on Signal Processing, 2008, 56, 1188-1204.	5.3	90
56	Cooperative Cognitive Networks: Optimal, Distributed and Low-Complexity Algorithms. IEEE Transactions on Signal Processing, 2013, 61, 2778-2790.	5.3	84
57	Maximum likelihood array processing for stochastic coherent sources. IEEE Transactions on Signal Processing, 1996, 44, 96-105.	5.3	81
58	Exploiting Quantized Channel Norm Feedback Through Conditional Statistics in Arbitrarily Correlated MIMO Systems. IEEE Transactions on Signal Processing, 2009, 57, 4027-4041.	5.3	81
59	Direction-of-arrival estimation for wide-band signals using the ESPRIT algorithm. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1990, 38, 317-327.	2.0	78
60	Correlation Properties of Large Scale Fading Based on Indoor Measurements. , 2007, , .		73
61	On the Energy-Efficiency of Hybrid Analogâ€"Digital Transceivers for Single- and Multi-Carrier Large Antenna Array Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 1980-1995.	14.0	73
62	Coverage Probability and Ergodic Capacity of Intelligent Reflecting Surface-Enhanced Communication Systems. IEEE Communications Letters, 2021, 25, 69-73.	4.1	72
63	Edge-Caching Wireless Networks: Performance Analysis and Optimization. IEEE Transactions on Wireless Communications, 2018, 17, 2827-2839.	9.2	71
64	A Comprehensive Survey of Enabling and Emerging Technologies for Social Distancingâ€"Part II: Emerging Technologies and Open Issues. IEEE Access, 2020, 8, 154209-154236.	4.2	71
65	The Error Probability of the Fixed-Complexity Sphere Decoder. IEEE Transactions on Signal Processing, 2009, 57, 2711-2720.	5.3	70
66	Symbol-Level Multiuser MISO Precoding for Multi-Level Adaptive Modulation. IEEE Transactions on Wireless Communications, 2017, 16, 5511-5524.	9.2	69
67	Coarse Trajectory Design for Energy Minimization in UAV-Enabled. IEEE Transactions on Vehicular Technology, 2020, 69, 9483-9496.	6.3	68
68	Reconfigurable Intelligent Surface-Assisted Cell-Free Massive MIMO Systems Over Spatially-Correlated Channels. IEEE Transactions on Wireless Communications, 2022, 21, 5106-5128.	9.2	67
69	The impact of timing errors on the performance of linear DS-CDMA receivers. IEEE Journal on Selected Areas in Communications, 1996, 14, 1660-1668.	14.0	65
70	Robust MIMO Precoding for Several Classes of Channel Uncertainty. IEEE Transactions on Signal Processing, 2013, 61, 3056-3070.	5.3	65
71	On the Spectral and Energy Efficiencies of Full-Duplex Cell-Free Massive MIMO. IEEE Journal on Selected Areas in Communications, 2020, 38, 1698-1718.	14.0	64
72	Outage Probability Analysis of IRS-Assisted Systems Under Spatially Correlated Channels. IEEE Wireless Communications Letters, 2021, 10, 1815-1819.	5.0	64

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73	Weighted subspace fitting for general array error models. IEEE Transactions on Signal Processing, 1998, 46, 2484-2498.	5.3	63
74	Energy-Efficient Symbol-Level Precoding in Multiuser MISO Based on Relaxed Detection Region. IEEE Transactions on Wireless Communications, 2016, 15, 3755-3767.	9.2	63
75	DS-CDMA synchronization in time-varying fading channels. IEEE Journal on Selected Areas in Communications, 1996, 14, 1636-1642.	14.0	62
76	Spatial signature estimation for uniform linear arrays with unknown receiver gains and phases. IEEE Transactions on Signal Processing, 1999, 47, 2128-2138.	5.3	62
77	Linear and nonlinear techniques for multibeam joint processing in satellite communications. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	61
78	Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. IEEE Internet of Things Journal, 2021, 8, 3394-3409.	8.7	61
79	Array Interpolation and Bias Reduction. IEEE Transactions on Signal Processing, 2004, 52, 2711-2720.	5.3	59
80	Performance analysis of direction finding with large arrays and finite data. IEEE Transactions on Signal Processing, 1995, 43, 469-477.	5.3	58
81	Array processing in correlated noise fields based on instrumental variables and subspace fitting. IEEE Transactions on Signal Processing, 1995, 43, 1187-1199.	5.3	58
82	A Limited Feedback Joint Precoding for Amplify-and-Forward Relaying. IEEE Transactions on Signal Processing, 2010, 58, 1347-1357.	5.3	58
83	SNR Estimation for Multi-dimensional Cognitive Receiver under Correlated Channel/Noise. IEEE Transactions on Wireless Communications, 2013, 12, 6392-6405.	9.2	58
84	Secure Vehicular Communications Through Reconfigurable Intelligent Surfaces. IEEE Transactions on Vehicular Technology, 2021, 70, 7272-7276.	6.3	58
85	Minimum BER linear transceivers for MIMO channels via primal decomposition. IEEE Transactions on Signal Processing, 2005, 53, 2866-2882.	5.3	57
86	Generalised array manifold model for wireless communication channels with local scattering. IET Radar, Sonar & Navigation, 1998, 145, 51.	2.1	56
87	Pixel weighted average strategy for depth sensor data fusion. , 2010, , .		55
88	Multiple Gateway Transmit Diversity in Q/V Band Feeder Links. IEEE Transactions on Communications, 2015, 63, 916-926.	7.8	55
89	Iterative Precoder Design and User Scheduling for Block-Diagonalized Systems. IEEE Transactions on Signal Processing, 2012, 60, 3726-3739.	5.3	54
90	Performance of the Multibeam Satellite Return Link With Correlated Rain Attenuation. IEEE Transactions on Wireless Communications, 2014, 13, 6286-6299.	9.2	54

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91	Utilizing the Spatial Information Provided by Channel Norm Feedback in SDMA Systems. IEEE Transactions on Signal Processing, 2008, 56, 3278-3293.	5.3	53
92	A RAN Resource Slicing Mechanism for Multiplexing of eMBB and URLLC Services in OFDMA Based 5G Wireless Networks. IEEE Access, 2020, 8, 45674-45688.	4.2	53
93	Instrumental variable approach to array processing in spatially correlated noise fields. IEEE Transactions on Signal Processing, 1994, 42, 121-133.	5.3	52
94	System evaluation of optimal downlink beamforming with congestion control in wireless communication. IEEE Transactions on Wireless Communications, 2006, 5, 743-751.	9.2	52
95	Distributed Multicell Beamforming Design Approaching Pareto Boundary with Max-Min Fairness. IEEE Transactions on Wireless Communications, 2012, , 1-13.	9.2	52
96	Reconfigurable Intelligent Surfaces for Smart Cities: Research Challenges and Opportunities. IEEE Open Journal of the Communications Society, 2020, 1, 1781-1797.	6.9	52
97	The Diversity Order of the Semidefinite Relaxation Detector. IEEE Transactions on Information Theory, 2008, 54, 1406-1422.	2.4	51
98	Symbol-Level Precoding for the Nonlinear Multiuser MISO Downlink Channel. IEEE Transactions on Signal Processing, 2018, 66, 1331-1345.	5.3	51
99	UAV Relay-Assisted Emergency Communications in IoT Networks: Resource Allocation and Trajectory Optimization. IEEE Transactions on Wireless Communications, 2022, 21, 1621-1637.	9.2	51
100	A subspace method for direction of arrival estimation of uncorrelated emitter signals. IEEE Transactions on Signal Processing, 1999, 47, 945-956.	5.3	50
101	Joint Transmit Waveform and Receive Filter Design for Dual-Function Radar-Communication Systems. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1378-1392.	10.8	50
102	A generalization of weighted subspace fitting to full-rank models. IEEE Transactions on Signal Processing, 2001, 49, 1002-1012.	5.3	49
103	An improved MUSIC algorithm for estimation of time delays in asynchronous DS-CDMA systems. IEEE Transactions on Communications, 1999, 47, 1628-1631.	7.8	48
104	Beamformer Designs for MISO Broadcast Channels with Zero-Forcing Dirty Paper Coding. IEEE Transactions on Wireless Communications, 2013, 12, 1173-1185.	9.2	46
105	Energy-Efficient and Secure Resource Allocation for Multiple-Antenna NOMA With Wireless Power Transfer. IEEE Transactions on Green Communications and Networking, 2018, 2, 1059-1071.	5.5	46
106	Exploiting Polarization for Spectrum Sensing in Cognitive SatComs. , 2012, , .		45
107	Beam Illumination Pattern Design in Satellite Networks: Learning and Optimization for Efficient Beam Hopping. IEEE Access, 2020, 8, 136655-136667.	4.2	45
108	Transfer Learning and Meta Learning-Based Fast Downlink Beamforming Adaptation. IEEE Transactions on Wireless Communications, 2021, 20, 1742-1755.	9.2	45

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109	Direction estimation in partially unknown noise fields. IEEE Transactions on Signal Processing, 1999, 47, 2375-2385.	5.3	44
110	Inter- and Intrasite Correlations of Large-Scale Parameters from Macrocellular Measurements at 1800â€‰MHz. Eurasip Journal on Wireless Communications and Networking, 2007, 2007, .	2.4	44
111	Weighted Sum Rate Maximization for MIMO Broadcast Channels Using Dirty Paper Coding and Zero-forcing Methods. IEEE Transactions on Communications, 2013, 61, 2362-2373.	7.8	44
112	16 Subspace methods for directions-of-arrival estimation. Handbook of Statistics, 1993, 10, 693-739.	0.6	43
113	Array interpolation and DOA MSE reduction. IEEE Transactions on Signal Processing, 2005, 53, 4464-4471.	5.3	43
114	Resource Optimization With Load Coupling in Multi-Cell NOMA. IEEE Transactions on Wireless Communications, 2018, 17, 4735-4749.	9.2	43
115	On downlink beamforming with indefinite shaping constraints. IEEE Transactions on Signal Processing, 2006, 54, 3566-3580.	5.3	42
116	Secrecy Analysis on Network Coding in Bidirectional Multibeam Satellite Communications. IEEE Transactions on Information Forensics and Security, 2015, 10, 1862-1874.	6.9	42
117	To AND or To OR: On Energy-Efficient Distributed Spectrum Sensing With Combined Censoring and Sleeping. IEEE Transactions on Wireless Communications, 2015, 14, 4508-4521.	9.2	41
118	Sensing-Throughput Tradeoff for Interweave Cognitive Radio System: A Deployment-Centric Viewpoint. IEEE Transactions on Wireless Communications, 2016, 15, 3690-3702.	9.2	41
119	Symbol-Level Precoding for Low Complexity Transmitter Architectures in Large-Scale Antenna Array Systems. IEEE Transactions on Wireless Communications, 2019, 18, 852-863.	9.2	41
120	Energy Efficient Coordinated Beamforming for Multicell System: Duality-Based Algorithm Design and Massive MIMO Transition. IEEE Transactions on Communications, 2015, 63, 4920-4935.	7.8	40
121	Energy-Efficient Multicell Multigroup Multicasting With Joint Beamforming and Antenna Selection. IEEE Transactions on Signal Processing, 2018, 66, 4904-4919.	5.3	40
122	Cache-Aided Simultaneous Wireless Information and Power Transfer (SWIPT) With Relay Selection. IEEE Journal on Selected Areas in Communications, 2019, 37, 187-201.	14.0	40
123	Short-Packet Communications for MIMO NOMA Systems Over Nakagami-m Fading: BLER and Minimum Blocklength Analysis. IEEE Transactions on Vehicular Technology, 2021, 70, 3583-3598.	6.3	40
124	Inexact Block Coordinate Descent Algorithms for Nonsmooth Nonconvex Optimization. IEEE Transactions on Signal Processing, 2020, 68, 947-961.	5.3	39
125	Gateway Switching in Q/V Band Satellite Feeder Links. IEEE Communications Letters, 2013, 17, 1384-1387.	4.1	38
126	Constructive Interference for Generic Constellations. IEEE Signal Processing Letters, 2018, 25, 586-590.	3.6	38

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127	Downlink Transmit Design for Massive MIMO LEO Satellite Communications. IEEE Transactions on Communications, 2022, 70, 1014-1028.	7.8	38
128	Full Diversity Detection in MIMO Systems with a Fixed-Complexity Sphere Decoder. , 2007, , .		36
129	Energy Minimization for Cache-Assisted Content Delivery Networks With Wireless Backhaul. IEEE Wireless Communications Letters, 2018, 7, 332-335.	5.0	36
130	Radio Resource Management Techniques for Multibeam Satellite Systems. IEEE Communications Letters, 2021, 25, 2448-2452.	4.1	36
131	Impact of Spatial Correlation and Precoding Design in OSTBC MIMO Systems. IEEE Transactions on Wireless Communications, 2010, 9, 3578-3589.	9.2	35
132	Hybrid Transceivers Design for Large-Scale Antenna Arrays Using Majorization-Minimization Algorithms. IEEE Transactions on Signal Processing, 2020, 68, 701-714.	5.3	35
133	Secrecy sum-rate for orthogonal random beamforming with opportunistic scheduling. IEEE Signal Processing Letters, 2013, 20, 141-144.	3.6	34
134	Relay Selection and Resource Allocation for SWIPT in Multi-User OFDMA Systems. IEEE Transactions on Wireless Communications, 2019, 18, 2493-2508.	9.2	34
135	Deformation Based Curved Shape Representation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1338-1351.	13.9	31
136	Symbol-Level Precoding Design Based on Distance Preserving Constructive Interference Regions. IEEE Transactions on Signal Processing, 2018, 66, 5817-5832.	5.3	31
137	Energy Efficiency Optimization for Backscatter Enhanced NOMA Cooperative V2X Communications Under Imperfect CSI. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 12961-12972.	8.0	31
138	Compressive Sparsity Order Estimation for Wideband Cognitive Radio Receiver. IEEE Transactions on Signal Processing, 2014, 62, 4984-4996.	5.3	30
139	Chirp parameter estimation from a sample covariance matrix. IEEE Transactions on Signal Processing, 2001, 49, 603-612.	5.3	29
140	MIMO channel capacity and modeling issues on a measured indoor radio channel at 5.8 GHz. IEEE Transactions on Wireless Communications, 2005, 4, 895-903.	9.2	29
141	A wideband statistical model for NLOS indoor MIMO channels. , 0, , .		28
142	Data Predistortion for Multicarrier Satellite Channels Based on Direct Learning. IEEE Transactions on Signal Processing, 2014, 62, 5868-5880.	5.3	28
143	Joint Power Control in Wiretap Interference Channels. IEEE Transactions on Wireless Communications, 2015, 14, 3810-3823.	9.2	28
144	When will smart antennas be ready for the market? Part I. IEEE Signal Processing Magazine, 2005, 22, 87-92.	5.6	27

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145	Multi-gateway cooperation in multibeam satellite systems. , 2012, , .		27
146	Cognitive Zone for Broadband Satellite Communications in 17.3â€"17.7 GHz Band. IEEE Wireless Communications Letters, 2015, 4, 305-308.	5.0	27
147	Per-Antenna Constant Envelope Precoding and Antenna Subset Selection: A Geometric Approach. IEEE Transactions on Signal Processing, 2016, 64, 6089-6104.	5.3	27
148	The effects of local scattering on direction of arrival estimation with MUSIC and ESPRIT. , 0, , .		26
149	Distributed Multicell and Multiantenna Precoding: Characterization and Performance Evaluation. , 2009, , .		26
150	Learning-Assisted Optimization for Energy-Efficient Scheduling in Deadline-Aware NOMA Systems. IEEE Transactions on Green Communications and Networking, 2019, 3, 615-627.	5.5	26
151	On the Performance of One-Bit DoA Estimation via Sparse Linear Arrays. IEEE Transactions on Signal Processing, 2021, 69, 6165-6182.	5.3	26
152	Exploiting Long-Term Channel Correlation in Limited Feedback SDMA Through Channel Phase Codebook. IEEE Transactions on Signal Processing, 2011, 59, 1217-1228.	5.3	25
153	Centralized Rainfall Estimation Using Carrier to Noise of Satellite Communication Links. IEEE Journal on Selected Areas in Communications, 2018, 36, 1065-1073.	14.0	25
154	Energy Minimization in UAV-Aided Networks: Actor-Critic Learning for Constrained Scheduling Optimization. IEEE Transactions on Vehicular Technology, 2021, 70, 5028-5042.	6.3	25
155	Power Minimizer Symbol-Level Precoding: A Closed-Form Sub-Optimal Solution. IEEE Signal Processing Letters, 2018, , 1-1.	3.6	24
156	Machine Learning-Enabled Joint Antenna Selection and Precoding Design: From Offline Complexity to Online Performance. IEEE Transactions on Wireless Communications, 2021, 20, 3710-3722.	9.2	24
157	Reconfigurable Intelligent Surfaces in Challenging Environments: Underwater, Underground, Industrial and Disaster. IEEE Access, 2021, 9, 150214-150233.	4.2	24
158	Optimal Sensor Placement for Source Localization: A Unified ADMM Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 4359-4372.	6.3	24
159	Structured covariance matrix estimation: a parametric approach. , 0, , .		23
160	Pareto Characterization of the Multicell MIMO Performance Region With Simple Receivers. IEEE Transactions on Signal Processing, 2012, 60, 4464-4469.	5.3	23
161	Ergodic Capacity Analysis of AF DH MIMO Relay Systems With Residual Transceiver Hardware Impairments: Conventional and Large System Limits. IEEE Transactions on Vehicular Technology, 2017, 66, 7010-7025.	6.3	23
162	Joint Bit Allocation and Precoding for MIMO Systems With Decision Feedback Detection. IEEE Transactions on Signal Processing, 2009, 57, 4509-4521.	5.3	22

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163	Successive Convex Approximation Algorithms for Sparse Signal Estimation With Nonconvex Regularizations. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1286-1302.	10.8	22
164	A Joint Solution for Scheduling and Precoding in Multiuser MISO Downlink Channels. IEEE Transactions on Wireless Communications, 2020, 19, 475-490.	9.2	22
165	Hybrid Analog-Digital Transceiver Designs for Multi-User MIMO mmWave Cognitive Radio Systems. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 310-324.	7.9	22
166	Localization With One-Bit Passive Radars in Narrowband Internet-of-Things Using Multivariate Polynomial Optimization. IEEE Transactions on Signal Processing, 2021, 69, 2525-2540.	5.3	22
167	NOMA-Enabled Multi-Beam Satellite Systems: Joint Optimization to Overcome Offered-Requested Data Mismatches. IEEE Transactions on Vehicular Technology, 2021, 70, 900-913.	6.3	22
168	Hybrid Beamforming, User Scheduling, and Resource Allocation for Integrated Terrestrial-Satellite Communication. IEEE Transactions on Vehicular Technology, 2021, 70, 8868-8882.	6.3	22
169	Blind subspace identification of a BPSK communication channel. , 0, , .		21
170	Performance of TDMA and SDMA based Opportunistic Beamforming. IEEE Transactions on Wireless Communications, 2008, 7, 4058-4063.	9.2	21
171	Transceiver Design for Distributed STBC Based AF Cooperative Networks in the Presence of Timing and Frequency Offsets. IEEE Transactions on Signal Processing, 2013, 61, 3143-3158.	5.3	21
172	Online Spatiotemporal Popularity Learning via Variational Bayes for Cooperative Caching. IEEE Transactions on Communications, 2020, 68, 7068-7082.	7.8	21
173	Further results and insights on subspace based sinusoidal frequency estimation. IEEE Transactions on Signal Processing, 2001, 49, 2962-2974.	5.3	20
174	MMSE Performance Analysis of Generalized Multibeam Satellite Channels. IEEE Communications Letters, 2013, 17, 1332-1335.	4.1	20
175	An Asymptotically Efficient Weighted Least Squares Estimator for Co-Array-Based DoA Estimation. IEEE Transactions on Signal Processing, 2020, 68, 589-604.	5.3	20
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177	Simultaneous Sensing and Transmission for Cognitive Radios With Imperfect Signal Cancellation. IEEE Transactions on Wireless Communications, 2017, 16, 5599-5615.	9.2	19
178	Faster-Than-Nyquist Signaling Through Spatio-Temporal Symbol-Level Precoding for the Multiuser MISO Downlink Channel. IEEE Transactions on Wireless Communications, 2018, 17, 5915-5928.	9.2	19
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