Markku J Juntti

List of Publications by Year
in descending order

421 papers	6,772 citations	76294 40 h-index	114418 63 g-index
424 all docs	424 docs citations	424 times ranked	4129 citing authors

#	ARTICLE	IF	CITATIONS
1	Massive MIMO Detection Techniques: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 3109-3132.	24.8	264
2	Terahertz Technologies to Deliver Optical Network Quality of Experience in Wireless Systems Beyond 5G. IEEE Communications Magazine, 2018, 56, 144-151.	4.9	232
3	Positioning for NLOS Propagation: Algorithm Derivations and Cramer–Rao Bounds. IEEE Transactions on Vehicular Technology, 2007, 56, 2568-2580.	3.9	159
4	Radio Localization and Mapping With Reconfigurable Intelligent Surfaces: Challenges, Opportunities, and Research Directions. IEEE Vehicular Technology Magazine, 2020, 15, 52-61.	2.8	153
5	Fast Converging Algorithm for Weighted Sum Rate Maximization in Multicell MISO Downlink. IEEE Signal Processing Letters, 2012, 19, 872-875.	2.1	130
6	Joint Design of Tx-Rx Beamformers in MIMO Downlink Channel. IEEE Transactions on Signal Processing, 2007, 55, 4639-4655.	3.2	128
7	Channel Estimation for RIS-Aided mmWave MIMO Systems via Atomic Norm Minimization. IEEE Transactions on Wireless Communications, 2021, 20, 5786-5797.	6.1	123
8	Optimal Energy-Efficient Transmit Beamforming for Multi-User MISO Downlink. IEEE Transactions on Signal Processing, 2015, 63, 5574-5588.	3.2	122
9	Cooperative MIMO-OFDM Cellular System with Soft Handover Between Distributed Base Station Antennas. IEEE Transactions on Wireless Communications, 2008, 7, 1428-1440.	6.1	116
10	A Conic Quadratic Programming Approach to Physical Layer Multicasting for Large-Scale Antenna Arrays. IEEE Signal Processing Letters, 2014, 21, 114-117.	2.1	99
11	Large Intelligent Surface for Positioning in Millimeter Wave MIMO Systems. , 2020, , .		94
12	Adaptive Beamforming Design for mmWave RIS-Aided Joint Localization and Communication. , 2020, , .		94
13	Performance–Complexity Comparison of Receivers for a LTE MIMO–OFDM System. IEEE Transactions on Signal Processing, 2010, 58, 3360-3372.	3.2	92
14	LMMSE detection for DS-CDMA systems in fading channels. IEEE Transactions on Communications, 2000, 48, 194-199.	4.9	90
15	Iterative Joint Detection, Decoding, and Channel Estimation in Turbo-Coded MIMO-OFDM. IEEE Transactions on Vehicular Technology, 2009, 58, 1784-1796.	3.9	85
16	Frequency and Time Domain Channel Models for Nanonetworks in Terahertz Band. IEEE Transactions on Antennas and Propagation, 2015, 63, 678-691.	3.1	81
17	Finite memory-length linear multiuser detection for asynchronous CDMA communications. IEEE Transactions on Communications, 1997, 45, 611-622.	4.9	80
18	Effective CSI Signaling and Decentralized Beam Coordination in TDD Multi-Cell MIMO Systems. IEEE Transactions on Signal Processing, 2013, 61, 2204-2218.	3.2	75

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19	Sequential Compressed Sensing With Progressive Signal Reconstruction in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2015, 14, 1622-1635.	6.1	73
20	MIMO MC-CDMA communications for future cellular systems. , 2005, 43, 118-124.		70
21	A discussion on molecular absorption noise in the terahertz band. Nano Communication Networks, 2016, 8, 35-45.	1.6	68
22	Iterative implementation of linear multiuser detection for dynamic asynchronous CDMA systems. IEEE Transactions on Communications, 1998, 46, 503-508.	4.9	67
23	On Unified Vehicular Communications and Radar Sensing in Millimeter-Wave and Low Terahertz Bands. IEEE Wireless Communications, 2019, 26, 146-153.	6.6	66
24	Multiple access interference suppression with linear chip equalizers in WCDMA downlink receivers. , 0, , .		64
25	Last Meter Indoor Terahertz Wireless Access: Performance Insights and Implementation Roadmap. , 2018, 56, 158-165.		63
26	Chip-Level Channel Equalization in WCDMA Downlink. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.0	62
27	Distributed Joint Resource and Routing Optimization in Wireless Sensor Networks via Alternating Direction Method of Multipliers. IEEE Transactions on Wireless Communications, 2013, 12, 5454-5467.	6.1	60
28	The Impact of Interference From the Side Lanes on mmWave/THz Band V2V Communication Systems With Directional Antennas. IEEE Transactions on Vehicular Technology, 2018, 67, 5028-5041.	3.9	60
29	Machine Learning Meets Communication Networks: Current Trends and Future Challenges. IEEE Access, 2020, 8, 223418-223460.	2.6	58
30	Simplified Molecular Absorption Loss Model for 275-400 Gigahertz Frequency Band. , 2018, , .		57
31	When IoT Keeps People in the Loop: A Path Towards a New Global Utility. IEEE Communications Magazine, 2019, 57, 114-121.	4.9	57
32	Interference and Coverage Analysis for Terahertz Networks With Indoor Blockage Effects and Line-of-Sight Access Point Association. IEEE Transactions on Wireless Communications, 2021, 20, 1472-1486.	6.1	56
33	Iterative Multidimensional Impulse Detectors for Communications Based on the Classical Diagnostic Methods. IEEE Transactions on Communications, 2005, 53, 395-398.	4.9	55
34	Linear Multiuser MIMO Transceiver Design With Quality of Service and Per-Antenna Power Constraints. IEEE Transactions on Signal Processing, 2008, 56, 3049-3055.	3.2	55
35	Decentralized Sum Rate Maximization With QoS Constraints for Interfering Broadcast Channel Via Successive Convex Approximation. IEEE Transactions on Signal Processing, 2016, 64, 2788-2802.	3.2	53
36	Performance analysis of downlink OFDMA resource allocation with limited feedback. IEEE Transactions on Wireless Communications, 2009, 8, 2927-2937.	6.1	52

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37	Energy-Efficient Bandwidth and Power Allocation for Multi-Homing Networks. IEEE Transactions on Signal Processing, 2015, 63, 1684-1699.	3.2	52
38	CFAR strategies for channelized radiometer. IEEE Signal Processing Letters, 2005, 12, 13-16.	2.1	51
39	Achieving Energy Efficiency Fairness in Multicell MISO Downlink. IEEE Communications Letters, 2015, 19, 1426-1429.	2.5	51
40	Joint Design of Tx-Rx Beamformers in MIMO Downlink Channel. , 2007, , .		48
41	CFAR Outlier Detection With Forward Methods. IEEE Transactions on Signal Processing, 2007, 55, 4702-4706.	3.2	48
42	Stochastic Geometry Analysis for Mean Interference Power and Outage Probability in THz Networks. IEEE Transactions on Wireless Communications, 2017, 16, 3017-3028.	6.1	48
43	Beamformer Designs for MISO Broadcast Channels with Zero-Forcing Dirty Paper Coding. IEEE Transactions on Wireless Communications, 2013, 12, 1173-1185.	6.1	46
44	Suboptimal soft-output MAP detector with lattice reduction. IEEE Signal Processing Letters, 2006, 13, 321-324.	2.1	44
45	Weighted Sum Rate Maximization for MIMO Broadcast Channels Using Dirty Paper Coding and Zero-forcing Methods. IEEE Transactions on Communications, 2013, 61, 2362-2373.	4.9	44
46	On Linear Precoding Strategies for Secrecy Rate Maximization in Multiuser Multiantenna Wireless Networks. IEEE Transactions on Signal Processing, 2014, 62, 3536-3551.	3.2	44
47	Threshold setting strategies for a quantized total power radiometer. IEEE Signal Processing Letters, 2005, 12, 796-799.	2.1	43
48	Efficient Solutions for Weighted Sum Rate Maximization in Multicellular Networks With Channel Uncertainties. IEEE Transactions on Signal Processing, 2013, 61, 5659-5674.	3.2	40
49	Traffic Aware Resource Allocation Schemes for Multi-Cell MIMO-OFDM Systems. IEEE Transactions on Signal Processing, 2016, 64, 2730-2745.	3.2	40
50	Energy-Efficient Multicell Multigroup Multicasting With Joint Beamforming and Antenna Selection. IEEE Transactions on Signal Processing, 2018, 66, 4904-4919.	3.2	40
51	A line-of-sight channel model for the 100–450 gigahertz frequency band. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	1.5	40
52	Performance evaluation of adaptive chip-level channel equalizers in WCDMA downlink. , 0, , .		39
53	Spectrum Sensingwith Forward Methods. , 2006, , .		38
54	Complexity Analysis of MMSE Detector Architectures for MIMO OFDM Systems. , 2005, , .		37

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55	Distributed Solutions for Energy Efficiency Fairness in Multicell MISO Downlink. IEEE Transactions on Wireless Communications, 2017, 16, 6232-6247.	6.1	35
56	Distributed Distortion-Rate Optimized Compressed Sensing in Wireless Sensor Networks. IEEE Transactions on Communications, 2018, 66, 1609-1623.	4.9	33
57	A Tutorial on Lossy Forwarding Cooperative Relaying. IEEE Communications Surveys and Tutorials, 2019, 21, 66-87.	24.8	33
58	Coverage Analysis for 3D Terahertz Communication Systems. IEEE Journal on Selected Areas in Communications, 2021, 39, 1817-1832.	9.7	33
59	Comparison of Antenna Arrays in a 3-D Multiuser Multicell Network. , 2011, , .		32
60	Improved Channel Occupancy Rate Estimation. IEEE Transactions on Communications, 2015, 63, 643-654.	4.9	32
61	Performance Evaluation of THz Wireless Systems Operating in 275-400 GHz Band. , 2018, , .		32
62	Deep Learning for Massive MIMO Uplink Detectors. IEEE Communications Surveys and Tutorials, 2022, 24, 741-766.	24.8	32
63	Performance of Multiuser Detection in Multirate CDMA Systems. Wireless Personal Communications, 1999, 11, 293-311.	1.8	31
64	Advanced CDMA for Wireless Communications. , 1997, , 447-490.		31
65	Spectrum Sensing with LAD-Based Methods. , 2007, , .		30
66	Weighted sum rate maximization for interfering broadcast channel via successive convex approximation. , 2012, , .		30
67	Energy-Efficient Beam Coordination Strategies With Rate-Dependent Processing Power. IEEE Transactions on Signal Processing, 2017, 65, 6097-6112.	3.2	30
68	ADMM-based infinity norm detection for large MU-MIMO: Algorithm and VLSI architecture. , 2017, , .		30
69	Channel Modeling and Performance Analysis of Airplane-Satellite Terahertz Band Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 2047-2061.	3.9	30
70	Passive RIS vs. Hybrid RIS: A Comparative Study on Channel Estimation. , 2021, , .		30
71	Survey on reconfigurable intelligent surfaces below 10 GHz. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	1.5	30
72	Hybrid Relay-Reflecting Intelligent Surface-Assisted Wireless Communications. IEEE Transactions on Vehicular Technology, 2022, 71, 6228-6244.	3.9	30

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73	Fixed- and Floating-Point Processor Comparison for MIMO-OFDM Detector. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 1588-1598.	7.3	28
74	Computationally Efficient Robust Beamforming for SINR Balancing in Multicell Downlink With Applications to Large Antenna Array Systems. IEEE Transactions on Communications, 2014, 62, 1908-1920.	4.9	27
75	The Challenges of Artificial Intelligence in Wireless Networks for the Internet of Things: Exploring Opportunities for Growth. IEEE Industrial Electronics Magazine, 2021, 15, 16-29.	2.3	27
76	2-D Unitary ESPRIT Based Joint AOA and AOD Estimation for MIMO System. , 2006, , .		26
77	Energy Efficiency Fairness for Multi-Pair Wireless-Powered Relaying Systems. IEEE Journal on Selected Areas in Communications, 2019, 37, 357-373.	9.7	26
78	Beyond 5G RIS mmWave Systems: Where Communication and Localization Meet. IEEE Access, 2022, 10, 68075-68084.	2.6	26
79	A Blind Signal Localization and SNR Estimation Method. , 2006, , .		24
80	Comparison of Two Novel List Sphere Detector Algorithms for MIMO-OFDM Systems. , 2006, , .		24
81	Implementation Aspects of List Sphere Detector Algorithms. , 2007, , .		24
82	Self-interference channel for full duplex transceivers. , 2014, , .		24
83	Linear Cooperative Multiuser MIMO Transceiver Design with Per BS Power Constraints. , 2007, , .		23
84	Multigroup Multicast Beamformer Design for MISO-OFDM With Antenna Selection. IEEE Transactions on Signal Processing, 2017, 65, 5832-5847.	3.2	23
85	Digital Predistortion of Phased-Array Transmitter With Shared Feedback and Far-Field Calibration. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1000-1015.	2.9	23
86	MIMO Evolution Beyond 5G Through Reconfigurable Intelligent Surfaces and Fluid Antenna Systems. Proceedings of the IEEE, 2022, 110, 1244-1265.	16.4	23
87	Space-Time Turbo Coded Modulation: Design and Applications. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.0	22
88	Analysis of the LAD Methods. IEEE Signal Processing Letters, 2008, 15, 237-240.	2.1	22
89	Decentralized Joint Precoding With Pilot-Aided Beamformer Estimation. IEEE Transactions on Signal Processing, 2018, 66, 2330-2341.	3.2	22
90	Multigroup Multicast Beamforming and Antenna Selection with Rate-Splitting in Multicell Systems. , 2018, , .		22

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91	Scheduling for Multiuser MIMO Downlink with Linear Processing. , 0, , .		21
92	Minimum SINR Maximization for Multiuser MIMO Downlink with Per BS Power Constraints. , 2007, , .		21
93	A GPU implementation for two MIMO-OFDM detectors. , 2010, , .		20
94	A Lower Bound Analysis of Hamming Distortion for a Binary CEO Problem With Joint Source-Channel Coding. IEEE Transactions on Communications, 2016, 64, 343-353.	4.9	20
95	The effect of LLR clipping to the complexity of list sphere detector algorithms. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	18
96	ADMM-Based Infinity-Norm Detection for Massive MIMO: Algorithm and VLSI Architecture. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2021, 29, 747-759.	2.1	18
97	Inter-path interference suppression in WCDMA systems with low spreading factors. , 1999, , .		17
98	Performance Analysis of Downlink OFDMA Frequency Scheduling with Limited Feedback. , 2008, , .		17
99	A new look to 275 to 400 GHz band: Channel model and performance evaluation. , 2018, , .		17
100	Energy Efficiency Maximization for C-RANs: Discrete Monotonic Optimization, Penalty, and ℓ_{0}-Approximation Methods. IEEE Transactions on Signal Processing, 2018, 66, 4435-4449.	3.2	17
101	Receiver Design for Spatially Layered Downlink MC-CDMA System. IEEE Transactions on Vehicular Technology, 2005, 54, 1042-1055.	3.9	16
102	Low-Complexity Iterative Algorithm for Finding the MIMO-OFDM Broadcast Channel Sum Capacity. IEEE Transactions on Communications, 2007, 55, 48-53.	4.9	16
103	EXIT Chart-Based Power Allocation for Iterative Frequency Domain MIMO Detector. IEEE Transactions on Signal Processing, 2011, 59, 1624-1641.	3.2	16
104	Architecture Design and Implementation of the Metric First List Sphere Detector Algorithm. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2011, 19, 895-899.	2.1	16
105	Decentralized coordinated beamforming for weighted sum energy efficiency maximization in multi-cell MISO downlink. , 2015, , .		16
106	Efficient initialisation of iterative linear massive MIMO detectors using a stair matrix. Electronics Letters, 2020, 56, 50-52.	0.5	16
107	Joint User Identification and Channel Estimation via Exploiting Spatial Channel Covariance in mMTC. IEEE Wireless Communications Letters, 2021, 10, 887-891.	3.2	16
108	Leveraging Location Information for RIS-Aided mmWave MIMO Communications. IEEE Wireless Communications Letters, 2021, 10, 1380-1384.	3.2	16

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109	MIMO Downlink Weighted Sum Rate Maximization with Power Constraints per Antenna Groups. IEEE Vehicular Technology Conference, 2007, , .	0.2	15
110	Learning to Estimate RIS-Aided mmWave Channels. IEEE Wireless Communications Letters, 2022, 11, 841-845.	3.2	15
111	Compensation of non-reciprocal interference in adaptive MIMO-OFDM cellular systems. IEEE Transactions on Wireless Communications, 2007, 6, 545-555.	6.1	14
112	On the performance of space-time coded and spatially multiplexed MIMO systems with linear receivers. IEEE Transactions on Communications, 2010, 58, 642-651.	4.9	14
113	Programmable processor implementations of -best list sphere detector for MIMO receiver. Signal Processing, 2010, 90, 313-323.	2.1	14
114	Mobile transmitter digital predistortion: Feasibility analysis, algorithms and design exploration. , 2013, , .		14
115	A customized lattice reduction multiprocessor for MIMO detection. , 2015, , .		14
116	Simple Molecular Absorption Loss Model for 200â€"450 Gigahertz Frequency Band. , 2019, , .		14
117	Transform-selective interference suppression algorithm for spread-spectrum communications. IEEE Signal Processing Letters, 2005, 12, 49-51.	2.1	13
118	Implementation aspects of list sphere decoder algorithms for MIMO-OFDM systems. Signal Processing, 2010, 90, 2863-2876.	2.1	13
119	Frequency domain penetration loss in the terahertz band. , 2016, , .		13
120	Measurements on penetration loss in terahertz band. , 2016, , .		13
121	Energy-efficient coordinated multi-cell multi-group multicast beamforming with antenna selection. , 2017, , .		13
122	Weighted Maxâ€"Min Fairness for C-RAN Multicasting Under Limited Fronthaul Constraints. IEEE Transactions on Communications, 2018, 66, 1534-1548.	4.9	13
123	Performance Analysis of Lossy Decode-and-Forward for Non-Orthogonal MARCs. IEEE Transactions on Wireless Communications, 2018, 17, 1545-1558.	6.1	13
124	Two-Stage Channel Estimation for Hybrid RIS Assisted MIMO Systems. IEEE Transactions on Communications, 2022, 70, 4793-4806.	4.9	13
125	Efficient User, Bit and Power Allocation for Adaptive Multiuser MIMO-OFDM with Low Signalling Overhead. , 2006, , .		12
126	Application-Specific Instruction Set Processor Implementation of List Sphere Detector. Eurasip Journal on Embedded Systems, 2007, 2007, 1-14.	1.2	12

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127	Architecture design and implementation of the increasing radius - List sphere detector algorithm. , 2009, , .		12
128	Downlink Precoder Design for Coordinated Regenerative Multi-User Relaying. IEEE Transactions on Signal Processing, 2013, 61, 1215-1229.	3.2	12
129	Linear Precoder Design for Doubly Correlated Partially Coherent Fading MIMO Channels. IEEE Transactions on Wireless Communications, 2014, 13, 3621-3635.	6.1	12
130	Parameterized Sets of Dataflow Modes And Their Application to Implementation of Cognitive Radio Systems. Journal of Signal Processing Systems, 2015, 80, 3-18.	1.4	12
131	â„"1 LS and â„"2 MMSE-Based Hybrid Channel Estimation for Intermittent Wireless Connections. IEEE Transactions on Wireless Communications, 2016, 15, 314-328.	6.1	12
132	Energy-efficient joint unicast and multicast beamforming with multi-antenna user terminals. , 2017, , .		12
133	A List Sphere Detector based on Dijkstra's Algorithm for MIMO-OFDM Systems. , 2007, , .		11
134	Partially Coherent Constellation Design and Bit-Mapping with Coding for Correlated Fading Channels. IEEE Transactions on Communications, 2013, 61, 4243-4255.	4.9	11
135	Leveraging sparsity into massive MIMO channel estimation with the adaptive-LASSO. , 2015, , .		11
136	Max-Min Fairness for Multicast Multigroup Multicell Transmission under Backhaul Constraints. , 2016, , .		11
137	Joint analog and digital self-interference cancellation and full-duplex system performance. , 2017, , .		11
138	Rate-Distortion Performance of Lossy Compressed Sensing of Sparse Sources. IEEE Transactions on Communications, 2018, , 1-1.	4.9	11
139	Measurement studies of a spectrum sensing algorithm based on double thresholding. , 2009, , .		10
140	Avoiding Matrix Inversion in DD SAGE Channel Estimation in MIMO-OFDM with M-QAM. , 2009, , .		10
141	Analysis of the Consecutive Mean Excision Algorithms. Journal of Electrical and Computer Engineering, 2010, 2010, 1-13.	0.6	10
142	Distributed correlated data gathering in wireless sensor networks via compressed sensing. , 2013, , .		10
143	Study of adaptive detection for MIMO-OFDM systems. , 2013, , .		10
144	Low-Complexity Digital Predistortion for Reducing Power Amplifier Spurious Emissions in Spectrally-Agile Flexible Radio. , 2014, , .		10

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145	Performance Analysis of Optimal Beamforming in Fixed-Gain AF MIMO Relaying over Asymmetric Fading Channels. IEEE Transactions on Communications, 2014, 62, 1201-1217.	4.9	10
146	Frequency domain scattering loss in THz band. , 2015, , .		10
147	On Approximate Matrix Inversion Methods for Massive MIMO Detectors. , 2019, , .		10
148	Detection of frequency hopping signals using a sweeping channelized radiometer. Signal Processing, 2005, 85, 2030-2043.	2.1	9
149	Software defined radio implementation of K-best list sphere detector algorithm. , 2008, , .		9
150	Decentralized beam coordination via sum rate maximization in TDD multi-cell MIMO systems. , 2011, , .		9
151	Diffraction Effects in Terahertz Band - Measurements and Analysis. , 2016, , .		9
152	Performance Analysis for Lossy-Forward Relaying Over Nakagami- m Fading Channels. IEEE Transactions on Vehicular Technology, 2017, 66, 10035-10043.	3.9	9
153	Stochastic Geometry Analysis for Band-Limited Terahertz Band Communications. , 2018, , .		9
154	Distributed LT Codes With Improved Error Floor Performance. IEEE Access, 2019, 7, 8102-8110.	2.6	9
155	Compressive sensed video recovery via iterative thresholding with random transforms. IET Image Processing, 2020, 14, 1187-1199.	1.4	9
156	Noncoherent Joint Transmission Beamforming for Dense Small Cell Networks: Global Optimality, Efficient Solution and Distributed Implementation. IEEE Transactions on Wireless Communications, 2020, 19, 5891-5907.	6.1	9
157	Non-Linear Self-Interference Cancelation for Full-Duplex Transceivers Based on Hammerstein-Wiener Model. IEEE Communications Letters, 2021, 25, 3684-3688.	2.5	9
158	Fading Correlations for Wireless Cooperative Communications: Diversity and Coding Gains. IEEE Access, 2017, 5, 8001-8016.	2.6	9
159	Layered space-frequency coding and receiver design for MIMO MC-CDMA. , 2004, , .		8
160	Outage capacity analysis of downlink ODFMA resource allocation with limited feedback. , 2008, , .		8
161	Decision directed channel estimation for improving performance in LTE-A. , 2010, , .		8
162	On the Precoder Design for Block Diagonalized MIMO Broadcast Channels. IEEE Communications Letters, 2012, 16, 1165-1168.	2.5	8

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163	Optimal Energy Efficient Bit and Power Loading for Multicarrier Systems. IEEE Communications Letters, 2014, 18, 1194-1197.	2.5	8
164	Real time adaptive RF and digital self-interference cancellation for full-duplex transceivers. , 2016, , .		8
165	Globally optimal beamforming design for downlink CoMP transmission with limited backhaul capacity. , 2017, , .		8
166	Topology Adaptive Sum Rate Maximization in the Downlink of Dynamic Wireless Networks. IEEE Transactions on Communications, 2018, 66, 3501-3516.	4.9	8
167	Stochastic analysis of multi-tier nanonetworks in THz band. , 2017, , .		8
168	Application-specific Instruction Set Processor Implementation of List Sphere Detector. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	7
169	On the Dual-Decomposition-Based Sum Capacity Maximization for Vector Broadcast Channels. IEEE Transactions on Vehicular Technology, 2007, 56, 3577-3581.	3.9	7
170	Degrees of freedom and interference mitigation for MIMO interfering broadcast channels. , 2011, , .		7
171	Implementation of LS, MMSE and SAGE channel estimators for mobile MIMO-OFDM. , 2012, , .		7
172	Performance of terrestrial network with the presence of overlay satellite network. , 2013, , .		7
173	Primal decomposition based decentralized weighted sum rate maximization with QoS constraints for interfering broadcast channel. , 2013, , .		7
174	Guest Editorial Spectrum and Energy Efficient Design of Wireless Communication Networks: Part I. IEEE Journal on Selected Areas in Communications, 2013, 31, 825-828.	9.7	7
175	Low power implementation of digital predistortion filter on a heterogeneous application specific multiprocessor. , 2014, , .		7
176	Novel detector implementations for 3G LTE downlink and uplink. Analog Integrated Circuits and Signal Processing, 2014, 78, 645-655.	0.9	7
177	Distributed Power Allocation in Cognitive Radio Networks under Network Power Constraint. , 2014, , .		7
178	Outage probability of correlated binary source transmission over fading multiple access channels. , 2015, , .		7
179	Measurements on rough surface scattering in terahertz band. , 2016, , .		7
180	Performance of an â„"1 Regularized Subspace-Based MIMO Channel Estimation With Random Sequences. IEEE Wireless Communications Letters, 2016, 5, 112-115.	3.2	7

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181	Programmable ASIPs for Multimode MIMO Transceiver. Journal of Signal Processing Systems, 2018, 90, 1369-1381.	1.4	7
182	Beamforming and Transceiver HW Design for THz Band. , 2018, , .		7
183	Rain Induced Co-Channel Interference at 60 GHz and 300 GHz Frequencies. , 2019, , .		7
184	Latency Minimization in Intelligent Reflecting Surface Assisted D2D Offloading Systems. IEEE Communications Letters, 2021, 25, 3046-3050.	2.5	7
185	Matrix Decomposition for Massive MIMO Detection. , 2020, , .		7
186	Space-frequency-time turbo coded modulation. IEEE Communications Letters, 2001, 5, 480-482.	2.5	6
187	Interference Suppression in Several Transform Domains. , 0, , .		6
188	Space-Time Equalizers for MIMO High Speed WCDMA Downlinks. IEEE Transactions on Wireless Communications, 2007, 6, 2582-2592.	6.1	6
189	Uplink-Downlink SINR Duality via Lagrange Duality. , 2008, , .		6
190	Implementation of spectrum sensing on wireless open-access research platform. , 2010, , .		6
191	Timing and Frequency Offsets Compensation in Relay Transmission for 3GPP LTE Uplink. , 2010, , .		6
192	On the optimality of beamformer design for zero-forcing DPC with QR decomposition. , 2012, , .		6
193	Cutoff Rate Optimized Space-Time Signal Design for Partially Coherent Channel. IEEE Transactions on Communications, 2012, 60, 1563-1574.	4.9	6
194	Design of a unified transport triggered processor for LDPC/turbo decoder. , 2013, , .		6
195	Scheduling of the Activations in Iterative Detection, Decoding, and Channel Estimation for MIMO-OFDM. IEEE Transactions on Communications, 2013, 61, 638-647.	4.9	6
196	Energy efficient transmission and optimal relay location for two-way relay systems. , 2013, , .		6
197	Design of a transport triggered vector processor for turbo decoding. Analog Integrated Circuits and Signal Processing, 2014, 78, 611-622.	0.9	6
198	Decentralized sum MSE minimization for coordinated multi-point transmission. , 2014, , .		6

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199	Data and error rate bounds for binary data gathering wireless sensor networks. , 2015, , .		6
200	Distributed energy efficiency fairness optimization by ADMM in multicell MISO downlink. , 2016, , .		6
201	Parallel Digital Predistortion Design on Mobile GPU and Embedded Multicore CPU for Mobile Transmitters. Journal of Signal Processing Systems, 2017, 89, 417-430.	1.4	6
202	Energy-efficient transmission strategies for CoMP downlinkâ€"overview, extension, and numerical comparison. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, 207.	1.5	6
203	Digital Predistortion of Millimeter-Wave Phased Array Transmitter With Over-the-air Calibrated Simplified Conductive Feedback Architecture. , 2020, , .		6
204	Stochastic Analysis of Indoor THz Uplink with Co-Channel Interference and Phase Noise. , 2020, , .		6
205	Cooperative Lossy Communications in Unmanned Aerial Vehicle Networks: Age-of-Information With Outage Probability. IEEE Transactions on Vehicular Technology, 2021, 70, 10105-10120.	3.9	6
206	Statistical Digital Predistortion of 5G Millimeter-Wave RF Beamforming Transmitter Under Random Amplitude Variations. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 4284-4296.	2.9	6
207	Fine-grained application-specific instruction set processor design for the K-best list sphere detector algorithm. , 2008, , .		5
208	ASIC implementation comparison of SIC and LSD receivers for MIMO-OFDM. , 2008, , .		5
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