

Josef A Nossek

List of Publications by Year in descending order

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220
papers

3,145
citations

361413

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37
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221
all docs

221
docs citations

221
times ranked

1902
citing authors

#	ARTICLE	IF	CITATIONS
1	Compact Uniform Circular Quarter-Wavelength Monopole Antenna Arrays With Wideband Decoupling and Matching Networks. IEEE Transactions on Antennas and Propagation, 2021, 69, 769-783.	5.1	9
2	Power Allocation and Parameter Estimation for Multipath-Based 5G Positioning. IEEE Transactions on Wireless Communications, 2021, 20, 7302-7316.	9.2	15
3	1-Bit Precoding for Massive MIMO Downlink with Linear Programming and a Greedy Algorithm Extension. , 2021, , .		3
4	Two-Dimensional Channel Parameter Estimation for Millimeter-Wave Systems Using Butler Matrices. IEEE Transactions on Wireless Communications, 2021, 20, 2670-2684.	9.2	6
5	Position Information From Reflecting Surfaces. IEEE Wireless Communications Letters, 2021, 10, 1300-1304.	5.0	2
6	Sparse Linear Precoders For Mitigating Nonlinearities In Massive MIMO. , 2021, , .		2
7	Massive MIMO Channel Estimation With Low-Resolution Spatial Sigma-Delta ADCs. IEEE Access, 2021, 9, 109320-109334.	4.2	11
8	On Reciprocity in Physically Consistent TDD Systems With Coupled Antennas. IEEE Transactions on Wireless Communications, 2020, 19, 6440-6453.	9.2	3
9	Limits of Transmit and Receive Array Gain in Massive MIMO. , 2020, , .		4
10	Low SNR Asymptotic Rates of Vector Channels With One-Bit Outputs. IEEE Transactions on Information Theory, 2020, 66, 7615-7634.	2.4	7
11	Rank-One Detector for Kronecker-Structured Constant Modulus Constellations. IEEE Signal Processing Letters, 2020, 27, 1420-1424.	3.6	6
12	Channel parameter estimation for millimeter-wave cellular systems with hybrid beamforming. Signal Processing, 2020, 176, 107715.	3.7	11
13	Multi-Linear Encoding and Decoding for MIMO Systems. , 2020, , .		1
14	Performance Limits of Single-Anchor Millimeter-Wave Positioning. IEEE Transactions on Wireless Communications, 2019, 18, 5196-5210.	9.2	16
15	Space-Constrained Mixed-ADC Massive MIMO. , 2019, , .		2
16	Low-Complexity separable beamformers for massive antenna array systems. IET Signal Processing, 2019, 13, 434-442.	1.5	5
17	5G Downlink Multi-Beam Signal Design for LOS Positioning. , 2019, , .		11
18	Reconsidering Linear Transmit Signal Processing in 1-Bit Quantized Multi-User MISO Systems. IEEE Transactions on Wireless Communications, 2019, 18, 254-267.	9.2	11

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19	Performance Analysis for Channel Estimation With 1-Bit ADC and Unknown Quantization Threshold. IEEE Transactions on Signal Processing, 2018, 66, 2557-2571.	5.3	44
20	Near-Field MIMO Communication Links. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 3027-3036.	5.4	18
21	A compact Hertzian dipoles multiport model for near-field MIMO system assessment. , 2018, , .		3
22	A Comparison of Hybrid Beamforming and Digital Beamforming With Low-Resolution ADCs for Multiple Users and Imperfect CSI. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 484-498.	10.8	81
23	On the Impact of the Mutual Reactance on the Radiated Power and on the Achievable Rates. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1179-1183.	3.0	2
24	Quantized Constant Envelope Precoding for Frequency Selective Channels. , 2018, , .		3
25	Multi-Array 5G V2V Relative Positioning: Performance Bounds. , 2018, , .		22
26	Quantized Constant Envelope Precoding With PSK and QAM Signaling. IEEE Transactions on Wireless Communications, 2018, 17, 8022-8034.	9.2	69
27	Are the Data Rates Predicted by the Analytic Analysis of Receivers with Low Resolution ADCs Achievable?. , 2018, , .		0
28	Robust massive MIMO equalization for mmWave systems with low resolution ADCs. , 2018, , .		3
29	On the Statistical Properties of Constant Envelope Quantizers. IEEE Wireless Communications Letters, 2018, 7, 1006-1009.	5.0	2
30	Performance analysis of FBMC and CP-OFDM in the presence of phase noise. , 2017, , .		4
31	Joint MMSE precoder and equalizer for massive MIMO using 1-bit quantization. , 2017, , .		9
32	MAC rate region of low resolution ADC digital and hybrid beamforming massive MIMO UL. , 2017, , .		2
33	Achievable Rate and Energy Efficiency of Hybrid and Digital Beamforming Receivers With Low Resolution ADC. IEEE Journal on Selected Areas in Communications, 2017, 35, 2056-2068.	14.0	64
34	LNA characterization methodologies. International Journal of Circuit Theory and Applications, 2017, 45, 1185-1202.	2.0	4
35	A Pessimistic Approximation for the Fisher Information Measure. IEEE Transactions on Signal Processing, 2017, 65, 386-396.	5.3	9
36	FBMC-OQAM with phase noise: Achievable performance and compensation. , 2017, , .		5

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37	Are Traditional Signal Processing Techniques Rate Maximizing in Quantized SU-MISO Systems?. , 2017, , .		1
38	Arbitrary Beam Synthesis of Hybrid Beamforming Systems for Beam Training. IEEE Wireless Communications Letters, 2017, 6, 714-717.	5.0	2
39	Precoding under instantaneous per-antenna peak power constraint. , 2017, , .		5
40	Massive MIMO downlink 1-bit precoding for frequency selective channels. , 2017, , .		10
41	Massive MIMO downlink 1-bit precoding with linear programming for PSK signaling. , 2017, , .		38
42	3D antenna patterning for MIMO and phased-array systems: Energy-based built-in-self-test for multiphysics co-design. , 2017, , .		6
43	Multiport model of hertzian dipoles coupled in the near-field. , 2017, , .		4
44	Multiport model of Hertzian dipoles coupled in the near-field. , 2017, , .		0
45	Non-interfering channels in a near-field MIMO communication. , 2017, , .		0
46	Performance comparison of hybrid and digital beamforming with transmitter impairments. , 2017, , .		2
47	On PAPR characteristics of DFT-s-OFDM with geometric and probabilistic constellation shaping. , 2017, , .		7
48	Performance analysis for pilot-based 1-bit channel estimation with unknown quantization threshold. , 2016, , .		5
49	A Bayesian Sparse Reconstruction Framework for Mitigation of Non-Linear Effects in OFDM Systems. , 2016, , .		0
50	Spatial coding based on minimum BER in 1-bit massive MIMO systems. , 2016, , .		3
51	Measurement-driven quality assessment of nonlinear systems by exponential replacement. , 2016, , .		2
52	Minimum BER precoding in 1-Bit massive MIMO systems. , 2016, , .		51
53	MMSE precoder for massive MIMO using 1-bit quantization. , 2016, , .		66
54	Asymptotic performance analysis for 1-bit Bayesian smoothing. , 2016, , .		0

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55	Analysis of a near field MIMO wireless channel using 5.6 GHz dipole antennas. , 2016, , .		4
56	Frequency-domain analysis of linear periodically time-varying FBMC systems. , 2016, , .		0
57	Cell Search for a Millimeter Wave Cellular System with 1-Bit Quantization at the Receiver. , 2016, , .		0
58	Channel estimation in massive MIMO systems using 1-bit quantization. , 2016, , .		30
59	Power- and spectral efficient communication system design using 1-bit quantization. , 2015, , .		4
60	Joint optimization of transmission and reception policies for energy harvesting nodes. , 2015, , .		1
61	LNA noise parameter measurement. , 2015, , .		1
62	A Hybrid Approach for Multi-User Massive MIMO Sparse Channel Estimation Based on Bayesian Recovery and Hard Thresholding. , 2015, , .		1
63	Precoder and equalizer design for multi-user MIMO FBMC/OQAM with highly frequency selective channels. , 2015, , .		7
64	Efficient frequency-domain fractionally-spaced equalizer for flexible digital coherent optical receivers. , 2015, , .		3
65	Signal parameter estimation performance under a sampling rate constraint. , 2015, , .		3
66	Spectral shaping with low resolution signals. , 2015, , .		7
67	DFE/THP duality for FBMC with highly frequency selective channels. , 2015, , .		1
68	Asymptotic Parameter Tracking Performance With Measurement Data of 1-Bit Resolution. IEEE Transactions on Signal Processing, 2015, 63, 6086-6095.	5.3	17
69	Efficient filter bank multicarrier realizations for 5G. , 2015, , .		7
70	Overdemodulation for High-Performance Receivers with Low-Resolution ADC. IEEE Wireless Communications Letters, 2015, 4, 169-172.	5.0	19
71	Weighted sum rate maximization with multiple linear conic constraints. , 2015, , .		2
72	1-bit direction of arrival estimation based on Compressed Sensing. , 2015, , .		39

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73	Covariance based signal parameter estimation of coarse quantized signals. , 2015, , .		9
74	A Leaner Carrier for the New 5G Air Interface. , 2015, , .		0
75	Experimental Demonstration of Joint Frame Synchronization and Carrier-Frequency Estimation for Training-Aided Digital Coherent Receivers. , 2014, , .		0
76	Precoding for systems with soft combining to counteract instationary intercell interference. , 2014, , .		0
77	Energy-constrained throughput maximization for point-to-point communications. , 2014, , .		1
78	Spectral efficient channel estimation algorithms for FBMC/OQAM systems: A comparison. , 2014, , .		4
79	The Multiport Communication Theory. IEEE Circuits and Systems Magazine, 2014, 14, 27-44.	2.3	32
80	Optimizing the energy efficiency of SIMO receivers with compact uniform linear arrays. , 2014, , .		0
81	Training-Aided Frequency-Domain Channel Estimation and Equalization for Single-Carrier Coherent Optical Transmission Systems. Journal of Lightwave Technology, 2014, 32, 4849-4863.	4.6	23
82	Experimental demonstration of single-stage frequency domain equalization for single-carrier coherent receivers. , 2014, , .		1
83	Low-Complexity Training-Aided 2 \times 2 MIMO Frequency Domain Fractionally-Spaced Equalization. , 2014, , .		2
84	Minimizing the energy per bit for pilot-assisted data transmission over quantized channels. , 2014, , .		3
85	Optimum analog receive filters for detection and inference under a sampling rate constraint. , 2014, , .		4
86	A signal adaptive array interpolation approach with reduced transformation bias for DOA estimation of highly correlated signals. , 2014, , .		10
87	Discrete-Time Signals and Systems. Academic Press Library in Signal Processing, 2014, 1, 79-112.	0.8	0
88	Information-Preserving Transformations for Signal Parameter Estimation. IEEE Signal Processing Letters, 2014, 21, 866-870.	3.6	7
89	A Lower Bound for the Fisher Information Measure. IEEE Signal Processing Letters, 2014, 21, 796-799.	3.6	40
90	Space-time adaptive principle component analysis for time-delay estimation. , 2014, , .		2

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91	Will the 1-bit GNSS receiver prevail?. , 2014, , .		6
92	Estimation of rank deficient covariance matrices with Kronecker structure. , 2014, , .		3
93	Design of Single User Limited Feedback Systems. IEEE Transactions on Wireless Communications, 2014, 13, 5812-5825.	9.2	2
94	Circuit-Aware Cognitive Radios for Energy-Efficient Communications. IEEE Wireless Communications Letters, 2013, 2, 323-326.	5.0	8
95	Two-Phase Scheduling and Leakage-Based Precoding in Wireless Cellular Networks. IEEE Transactions on Wireless Communications, 2013, 12, 3148-3157.	9.2	2
96	Delayed Single-Tap Frequency-Domain Chromatic-Dispersion Compensation. IEEE Photonics Technology Letters, 2013, 25, 167-170.	2.5	25
97	Training-aided frequency offset estimation in 16-QAM Nyquist transmission systems. , 2013, , .		1
98	Fun examples for teaching linear and nonlinear circuits. , 2013, , .		0
99	Throughput maximization for energy harvesting nodes transmitting over time-varying channels. , 2013, , .		3
100	Average throughput maximization for energy harvesting transmitters with causal energy arrival information. , 2013, , .		5
101	Quantization-loss reduction for signal parameter estimation. , 2013, , .		12
102	Single-Stage FDE Supported by Training-Aided Channel Estimation for Coherent Optical Receivers. , 2013, , .		1
103	Delayed Single-tap Subband Processing for Chromatic Dispersion Compensation. , 2013, , .		0
104	Training-Aided 2 \times 2 MIMO Channel Estimation with Frequency-Offset Tolerant Update. , 2013, , .		0
105	An iterative receiver for quantized MIMO systems. , 2012, , .		22
106	Information theoretic analysis of concurrent information transfer and power gain. , 2012, , .		0
107	Training based Channel Estimation for Signal Equalization and OPM in 16 QAM Optical Transmission Systems. , 2012, , .		2
108	On the physical meaning of the model of two uncoupled isotrops. , 2012, , .		1

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109	CD equalization with non-maximally decimated DFT filter bank. , 2012, , .		3
110	Structured subchannel impulse response estimation for Filter Bank based Multicarrier systems. , 2012, , .		10
111	Handling unknown interference in cellular networks with interference coordination. , 2012, , .		1
112	Throughput maximization for energy harvesting nodes with generalized circuit power modelling. , 2012, , .		7
113	Frequency domain training-aided channel estimation and equalization in time-varying optical transmission systems. , 2012, , .		1
114	Multi-satellite time-delay estimation for reliable high-resolution GNSS receivers. , 2012, , .		7
115	Efficient reconstruction of sparse vectors from quantized observations. , 2012, , .		18
116	PDL Monitoring based on the Eigenvalues Spread of a Data-Aided Zero-Forcing Frequency Domain Equalizer. , 2012, , .		3
117	Efficient Training-Based Channel Estimation for Coherent Optical Communication Systems. , 2012, , .		8
118	PDL-aware In-band OSNR Monitoring based on the Spectral Properties of Concatenated CAZAC Sequences. , 2012, , .		0
119	Nullators and norators in circuits education: A benefit or an obstacle?. , 2011, , .		4
120	Multuser diversity with limited feedback. , 2011, , .		1
121	Gaussian multiple access channel with compact antenna arrays. , 2011, , .		2
122	On multistreaming with compact antenna arrays. , 2011, , .		1
123	Modeling and minimization of transceiver power consumption in wireless networks. , 2011, , .		29
124	MMSE based FDD overhead optimization for a multiuser two-way system. , 2011, , .		0
125	FDD overhead optimization for a multiuser two-way system with imperfect CSI. , 2011, , .		1
126	Packet scheduling and resource allocation for downlink multicarrier systems with quality-of-service constraints. , 2011, , .		3

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127	Throughput maximizing transmission strategy of energy harvesting nodes. , 2011, , .		12
128	Power efficiency in communication systems from a circuit perspective. , 2011, , .		45
129	Probabilistic power control for heterogeneous cellular networks with closed-access femtocells. , 2011, , .		5
130	How much training is needed for interference coordination in cellular networks?. , 2011, , .		3
131	The Extended Invariance Principle for Signal Parameter Estimation in an Unknown Spatial Field. IEEE Transactions on Signal Processing, 2011, 59, 3213-3225.	5.3	29
132	ZF Detectors over Correlated K Fading MIMO Channels. IEEE Transactions on Communications, 2011, 59, 1591-1603.	7.8	58
133	On the relation of circuit theory and signals, systems and communications. AEU - International Journal of Electronics and Communications, 2011, 65, 713-717.	2.9	1
134	A method to convert near-perfect into perfect reconstruction FIR prototype filters for modulated filter banks. , 2011, , .		0
135	Gaussian multiple access channel with compact antenna arrays. , 2011, , .		6
136	Scalar quantizer based feedback of the Channel Direction Information in MU-MISO systems. , 2011, , .		1
137	Quantized CDI Based Tomlinson Harashima Precoding for Broadcast Channels. , 2011, , .		4
138	Optimum chip pulse shape design for timing synchronization. , 2011, , .		8
139	Optimal QoS-Constrained Resource Allocation in Downlink and Uplink Multicarrier Systems. , 2011, , .		2
140	Multiuser feedback design with multiple receive antennas. , 2011, , .		0
141	On the relation of circuit theory and signals, systems and communications. , 2011, , .		2
142	On the condition number distribution of complex wishart matrices. IEEE Transactions on Communications, 2010, 58, 1705-1717.	7.8	105
143	Mutual Information Statistics and Beamforming Performance Analysis of Optimized LoS MIMO Systems. IEEE Transactions on Communications, 2010, 58, 3316-3329.	7.8	29
144	Transceiver Design in Multiuser MISO Systems with Limited Feedback. , 2010, , .		4

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145	How to choose the ADC resolution for short range low power communication?. , 2010, , .		7
146	Analytic Framework for the Mutual Information Cumulants of Different MIMO Fading Channels. , 2010, , .		1
147	High-efficiency super-gain antenna arrays. , 2010, , .		1
148	High-efficiency super-gain antenna arrays. , 2010, , .		6
149	Scheduling and resource allocation in OFDM and FBMC systems: An interactive approach and performance comparison. , 2010, , .		5
150	Belief propagation based MIMO detection operating on quantized channel output. , 2010, , .		28
151	Enhancing the Network Sum-Rate without Sharing Channel State Information between Base Stations. , 2010, , .		2
152	On the Capacity of Generalized- α Fading MIMO Channels. IEEE Transactions on Signal Processing, 2010, 58, 5939-5944.	5.3	52
153	Circuit aware design of power-efficient short range communication systems. , 2010, , .		27
154	Transceiver design in multiuser MISO systems with imperfect transmit CSI. , 2010, , .		10
155	Mitigation of intercell interference without base station cooperation. , 2010, , .		5
156	Optimized “better than” raised-cosine pulse for reduced ICI in OFDM systems. , 2010, , .		10
157	Cost-constrained transmit processing in wireless cellular networks with universal frequency reuse. , 2010, , .		2
158	Toward a Circuit Theory of Communication. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 1663-1683.	5.4	123
159	Channel-adaptive coding for coarsely quantized MIMO systems. , 2010, , .		4
160	Maximizing LoS MIMO capacity using reconfigurable antenna arrays. , 2010, , .		17
161	Multiple parameter estimation with quantized channel output. , 2010, , .		91
162	On the effects of carrier frequency offset on cyclic prefix based OFDM and filter bank based multicarrier systems. , 2010, , .		22

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163	Iterative linear MMSE transmit and receive strategies for cellular MIMO networks. , 2009, , .		3
164	On two cross-layer assisted resource allocation schemes in multiuser multicarrier systems. , 2009, , .		4
165	Efficient SER measurement method for OFDM receivers with nonlinear distortion. , 2009, , .		3
166	Physical modeling of communication systems in information theory. , 2009, , .		3
167	Transmit and receive array gain of uniform linear arrays of isotrops. , 2009, , .		5
168	On energy efficient cross-layer assisted resource allocation in multiuser multicarrier systems. , 2009, , .		4
169	Adaptive decision feedback equalization for filter bank based multicarrier systems. , 2009, , .		11
170	Rate Balancing in Multiuser MIMO OFDM Systems. IEEE Transactions on Communications, 2009, 57, 1370-1380.	7.8	36
171	On Multiuser MIMO Multistream Transmission. IEEE Transactions on Vehicular Technology, 2009, 58, 5336-5341.	6.3	3
172	Models and analysis of streaming video transmission over wireless fading channels. Signal Processing: Image Communication, 2009, 24, 651-665.	3.2	14
173	Sparse multipath MIMO channels: Performance implications based on measurement data. , 2009, , .		13
174	Region 8: Importance of basic principles. IEEE Circuits and Systems Magazine, 2009, 9, 37-38.	2.3	4
175	A QoS-providing resource allocation scheme in multiuser multicarrier systems. , 2009, , .		2
176	Optimal resource allocation in the downlink/uplink of single-user MISO/SIMO FDD systems with limited feedback. , 2009, , .		5
177	Analysis of 1-bit output noncoherent fading channels in the low SNR regime. , 2009, , .		27
178	Achievable rates in the SIMO-Uplink/MISO-downlink of an FDD system with imperfect CSI. , 2009, , .		2
179	Clock synchronization based on distributed hidden state estimation. , 2009, , .		2
180	Transmit processing with low resolution D/A-converters. , 2009, , .		94

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181	MMSE subchannel decision feedback equalization for filter bank based multicarrier systems. , 2009, , .		24
182	A Kalman Filter Approach To Clock Synchronization Of Cascaded Network Elements*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 54-59.	0.4	5
183	QoS-constrained Energy Minimization in Multiuser Multicarrier Systems. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 185-195.	0.3	3
184	Maximum likelihood delay estimation in a navigation receiver for aeronautical applications. Aerospace Science and Technology, 2008, 12, 256-267.	4.8	90
185	Construction of interpretable Radial Basis Function classifiers based on the Random Forest kernel. , 2008, , .		5
186	MMSE subcarrier equalization for filter bank based multicarrier systems. , 2008, , .		69
187	Energy conserving model for the channel power-gain in wireless multi-user downlink scenarios. , 2008, , .		1
188	Time delay estimation in a spatially structured model using decoupled estimators for temporal and spatial parameters. , 2008, , .		1
189	Multiuser diversity and beamforming gain in a fast fading MU-MISO downlink with many users. , 2008, , .		0
190	On maximizing the sum network MISO broadcast capacity. , 2008, , .		8
191	Conjugate gradient based MMSE Decision Feedback Equalization. , 2008, , .		0
192	Rate-Invariant User Preselection for Complexity Reduction in Multiuser MIMO Systems. , 2008, , .		4
193	Maximum likelihood detection for quantized MIMO systems. , 2008, , .		24
194	Analysis of Rayleigh-fading channels with 1-bit quantized output. , 2008, , .		73
195	Spatial MIMO decision feedback equalizer operating on quantized data. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	12
196	Low complexity blind estimation of the carrier frequency offset in multicarrier systems. , 2008, , .		2
197	The maximum achievable array gain under physical transmit power constraint. , 2008, , .		9
198	Adaptive equalization for filter bank based multicarrier systems. , 2008, , .		13

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199	The extended invariance principle applied to joint time-delay, frequency, and DOA estimation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	6
200	Achieving near-capacity on large discrete memoryless channels with uniform distributed selected input. , 2008, , .		5
201	Equalization of multiuser MIMO high speed downlink packet access. , 2008, , .		1
202	The why and how of multiantenna systems. , 2008, , .		1
203	Covariance based linear precoding in the case of identical longterm channel state information. , 2008, , .		1
204	Circumventing base station cooperation through Kalman prediction of intercell interference. , 2008, , .		5
205	On the Problem of Bandwidth Partitioning in FDD Block-Fading Single-User MISO/SIMO Systems. Eurasip Journal on Advances in Signal Processing, 2008, 2008, .	1.7	4
206	2008 Awards [Recognitions]. IEEE Circuits and Systems Magazine, 2008, 8, 86-88.	2.3	0
207	Intercell-Interference in the Gaussian MISO Broadcast Channel. , 2007, , .		20
208	Field modelling of a multiconductor digital bus. , 2007, , .		1
209	On Ultra-Wideband MIMO Systems with 1-bit Quantized Outputs: Performance Analysis and Input Optimization. , 2007, , .		144
210	Out-Of-Band Radiation in Multicarrier Systems: A Comparison. , 2007, , 107-116.		27
211	Multiuser MIMO Channel Measurements and Performance in a Large Office Environment. , 2007, , .		15
212	Ingenieurausbildung im Umbruch. Elektrotechnik Und Informationstechnik, 2006, 123, 495-495.	1.1	0
213	Capacity and coding for quantized MIMO systems. , 2006, , .		42
214	Challenges in Coding for Quantized MIMO Systems. , 2006, , .		26
215	Exploiting the short-term and long-term channel properties in space and time: Eigenbeamforming concepts for the BS in WCDMA. European Transactions on Telecommunications, 2001, 12, 365-378.	1.2	52
216	Maximizing the SDMA Mobile Radio Capacity Increase by DOA Sensitive Channel Allocation. Wireless Personal Communications, 1999, 11, 63-77.	2.7	1

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217	DESIGN AND LEARNING WITH CELLULAR NEURAL NETWORKS. International Journal of Circuit Theory and Applications, 1996, 24, 15-24.	2.0	32
218	Discrete-time cellular neural networks. International Journal of Circuit Theory and Applications, 1992, 20, 453-467.	2.0	224
219	Cellular neural networks: Theory and circuit design. International Journal of Circuit Theory and Applications, 1992, 20, 533-553.	2.0	75
220	Improved circuit for switched-capacitor simulation of an inductor. Electronics Letters, 1980, 16, 141.	1.0	11