

Josef A Nossek

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

157
papers

2,086
citations

25
h-index

40
g-index

221
ext. papers

2,707
ext. citations

4.4
avg, IF

5.27
L-index

#	Paper	IF	Citations
157	Discrete-time cellular neural networks. <i>International Journal of Circuit Theory and Applications</i> , 1992 , 20, 453-467	2	154
156	On Ultra-Wideband MIMO Systems with 1-bit Quantized Outputs: Performance Analysis and Input Optimization 2007 ,		115
155	. <i>IEEE Transactions on Communications</i> , 2010 , 58, 1705-1717	6.9	88
154	Multiple parameter estimation with quantized channel output 2010 ,		71
153	Toward a Circuit Theory of Communication. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2010 , 57, 1663-1683	3.9	65
152	Transmit processing with low resolution D/A-converters 2009 ,		64
151	Analysis of Rayleigh-fading channels with 1-bit quantized output 2008 ,		60
150	MMSE subcarrier equalization for filter bank based multicarrier systems 2008 ,		50
149	Maximum likelihood delay estimation in a navigation receiver for aeronautical applications. <i>Aerospace Science and Technology</i> , 2008 , 12, 256-267	4.9	50
148	Cellular neural networks: Theory and circuit design. <i>International Journal of Circuit Theory and Applications</i> , 1992 , 20, 533-553	2	50
147	A Comparison of Hybrid Beamforming and Digital Beamforming With Low-Resolution ADCs for Multiple Users and Imperfect CSI. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2018 , 12, 484-498	7.5	49
146	MMSE precoder for massive MIMO using 1-bit quantization 2016 ,		48
145	On the Capacity of Generalized- α - β Fading MIMO Channels. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 5939-5944	4.8	44
144	. <i>IEEE Transactions on Communications</i> , 2011 , 59, 1591-1603	6.9	40
143	Minimum BER precoding in 1-Bit massive MIMO systems 2016 ,		39
142	Achievable Rate and Energy Efficiency of Hybrid and Digital Beamforming Receivers With Low Resolution ADC. <i>IEEE Journal on Selected Areas in Communications</i> , 2017 , 35, 2056-2068	14.2	37
141	Quantized Constant Envelope Precoding With PSK and QAM Signaling. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 8022-8034	9.6	37

140	Exploiting the short-term and long-term channel properties in space and time: Eigenbeamforming concepts for the BS in WCDMA. <i>European Transactions on Telecommunications</i> , 2001 , 12, 365-378		33
139	A Lower Bound for the Fisher Information Measure. <i>IEEE Signal Processing Letters</i> , 2014 , 21, 796-799	3.2	30
138	Power efficiency in communication systems from a circuit perspective 2011 ,		30
137	1-bit direction of arrival estimation based on Compressed Sensing 2015 ,		28
136	. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 2557-2571	4.8	28
135	Rate Balancing in Multiuser MIMO OFDM Systems. <i>IEEE Transactions on Communications</i> , 2009 , 57, 1370-1380	4.3	25
134	Mutual Information Statistics and Beamforming Performance Analysis of Optimized LoS MIMO Systems. <i>IEEE Transactions on Communications</i> , 2010 , 58, 3316-3329	6.9	25
133	Capacity and coding for quantized MIMO systems 2006 ,		25
132	DESIGN AND LEARNING WITH CELLULAR NEURAL NETWORKS. <i>International Journal of Circuit Theory and Applications</i> , 1996 , 24, 15-24	2	25
131	Massive MIMO downlink 1-bit precoding with linear programming for PSK signaling 2017 ,		23
130	Circuit aware design of power-efficient short range communication systems 2010 ,		23
129	The Extended Invariance Principle for Signal Parameter Estimation in an Unknown Spatial Field. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 3213-3225	4.8	22
128	Belief propagation based MIMO detection operating on quantized channel output 2010 ,		22
127	Analysis of 1-bit output noncoherent fading channels in the low SNR regime 2009 ,		22
126	Challenges in Coding for Quantized MIMO Systems 2006 ,		21
125	MMSE subchannel decision feedback equalization for filter bank based multicarrier systems 2009 ,		20
124	Channel estimation in massive MIMO systems using 1-bit quantization 2016 ,		19
123	On the effects of carrier frequency offset on cyclic prefix based OFDM and filter bank based multicarrier systems 2010 ,		19

122	Modeling and minimization of transceiver power consumption in wireless networks 2011 ,		19
121	An iterative receiver for quantized MIMO systems 2012 ,		19
120	Maximum likelihood detection for quantized MIMO systems 2008 ,		18
119	Overdemodulation for High-Performance Receivers with Low-Resolution ADC. <i>IEEE Wireless Communications Letters</i> , 2015 , 4, 169-172	5.9	16
118	Delayed Single-Tap Frequency-Domain Chromatic-Dispersion Compensation. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 167-170	2.2	16
117	Out-Of-Band Radiation in Multicarrier Systems: A Comparison 2007 , 107-116		16
116	The Multiport Communication Theory. <i>IEEE Circuits and Systems Magazine</i> , 2014 , 14, 27-44	3.2	13
115	Efficient reconstruction of sparse vectors from quantized observations 2012 ,		13
114	Multiuser MIMO Channel Measurements and Performance in a Large Office Environment 2007 ,		13
113	Training-Aided Frequency-Domain Channel Estimation and Equalization for Single-Carrier Coherent Optical Transmission Systems. <i>Journal of Lightwave Technology</i> , 2014 , 32, 4849-4863	4	12
112	Intercell-Interference in the Gaussian MISO Broadcast Channel 2007 ,		12
111	Multi-Array 5G V2V Relative Positioning: Performance Bounds 2018 ,		12
110	Models and analysis of streaming video transmission over wireless fading channels. <i>Signal Processing: Image Communication</i> , 2009 , 24, 651-665	2.8	10
109	2009 ,		10
108	Spatial MIMO decision feedback equalizer operating on quantized data. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	10
107	Adaptive equalization for filter bank based multicarrier systems 2008 ,		10
106	Asymptotic Parameter Tracking Performance With Measurement Data of 1-Bit Resolution. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 6086-6095	4.8	9
105	Quantization-loss reduction for signal parameter estimation 2013 ,		9

104	Maximizing LoS MIMO capacity using reconfigurable antenna arrays 2010 ,		9
103	Adaptive decision feedback equalization for filter bank based multicarrier systems 2009 ,		9
102	Near-Field MIMO Communication Links. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 3027-3036	3.9	8
101	On maximizing the sum network MISO broadcast capacity 2008 ,		8
100	Covariance based signal parameter estimation of coarse quantized signals 2015 ,		7
99	Channel parameter estimation for millimeter-wave cellular systems with hybrid beamforming. <i>Signal Processing</i> , 2020 , 176, 107715	4.4	7
98	Performance Limits of Single-Anchor Millimeter-Wave Positioning. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 5196-5210	9.6	7
97	Joint MMSE precoder and equalizer for massive MIMO using 1-bit quantization 2017 ,		7
96	A Pessimistic Approximation for the Fisher Information Measure. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 386-396	4.8	7
95	Massive MIMO downlink 1-bit precoding for frequency selective channels 2017 ,		7
94	A signal adaptive array interpolation approach with reduced transformation bias for DOA estimation of highly correlated signals 2014 ,		7
93	Structured subchannel impulse response estimation for Filter Bank based Multicarrier systems 2012 ,		7
92	Compact Uniform Circular Quarter-Wavelength Monopole Antenna Arrays With Wideband Decoupling and Matching Networks. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 769-783	4.9	7
91	Spectral shaping with low resolution signals 2015 ,		6
90	Throughput maximization for energy harvesting nodes with generalized circuit power modelling 2012 ,		6
89	Optimum chip pulse shape design for timing synchronization 2011 ,		6
88	5G Downlink Multi-Beam Signal Design for LOS Positioning 2019 ,		6
87	Reconsidering Linear Transmit Signal Processing in 1-Bit Quantized Multi-User MISO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 254-267	9.6	6

86	Power Allocation and Parameter Estimation for Multipath-based 5G Positioning. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	6
85	Low-Complexity separable beamformers for massive antenna array systems. <i>IET Signal Processing</i> , 2019 , 13, 434-442	1.7	5
84	Efficient filter bank multicarrier realizations for 5G 2015 ,		5
83	Information-Preserving Transformations for Signal Parameter Estimation. <i>IEEE Signal Processing Letters</i> , 2014 , 21, 866-870	3.2	5
82	Will the 1-bit GNSS receiver prevail? 2014 ,		5
81	Precoder and equalizer design for multi-user MIMO FBMC/OQAM with highly frequency selective channels 2015 ,		5
80	How to choose the ADC resolution for short range low power communication? 2010 ,		5
79	2010 ,		5
78	The maximum achievable array gain under physical transmit power constraint 2008 ,		5
77	Improved circuit for switched-capacitor simulation of an inductor. <i>Electronics Letters</i> , 1980 , 16, 141	1.1	5
76	Efficient Training-Based Channel Estimation for Coherent Optical Communication Systems 2012 ,		5
75	Performance analysis for pilot-based 1-bit channel estimation with unknown quantization threshold 2016 ,		5
74	Power- and spectral efficient communication system design using 1-bit quantization 2015 ,		4
73	Scheduling and resource allocation in OFDM and FBMC systems: An interactive approach and performance comparison 2010 ,		4
72	Transceiver design in multiuser MISO systems with imperfect transmit CSI 2010 ,		4
71	Construction of interpretable Radial Basis Function classifiers based on the Random Forest kernel 2008 ,		4
70	Rate-Invariant User Preselection for Complexity Reduction in Multiuser MIMO Systems 2008 ,		4
69	Circumventing base station cooperation through Kalman prediction of intercell interference 2008 ,		4

68	Massive MIMO Channel Estimation With Low-Resolution Spatial Sigma-Delta ADCs. <i>IEEE Access</i> , 2021 , 9, 109320-109334	3.5	4
67	Estimation of rank deficient covariance matrices with Kronecker structure 2014 ,		3
66	Circuit-Aware Cognitive Radios for Energy-Efficient Communications. <i>IEEE Wireless Communications Letters</i> , 2013 , 2, 323-326	5.9	3
65	LNA characterization methodologies. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 1185-1202	2	3
64	FBMC-OQAM with phase noise: Achievable performance and compensation 2017 ,		3
63	Spectral efficient channel estimation algorithms for FBMC/OQAM systems: A comparison 2014 ,		3
62	Minimizing the energy per bit for pilot-assisted data transmission over quantized channels 2014 ,		3
61	CD equalization with non-maximally decimated DFT filter bank 2012 ,		3
60	Multi-satellite time-delay estimation for reliable high-resolution GNSS receivers 2012 ,		3
59	Probabilistic power control for heterogeneous cellular networks with closed-access femtocells 2011 ,		3
58	Mitigation of intercell interference without base station cooperation 2010 ,		3
57	Iterative linear MMSE transmit and receive strategies for cellular MIMO networks 2009 ,		3
56	Transmit and receive array gain of uniform linear arrays of isotrops 2009 ,		3
55	Quantized CDI Based Tomlinson Harashima Precoding for Broadcast Channels 2011 ,		3
54	Achieving near-capacity on large discrete memoryless channels with uniform distributed selected input 2008 ,		3
53	Rank-One Detector for Kronecker-Structured Constant Modulus Constellations. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 1420-1424	3.2	3
52	Two-Dimensional Channel Parameter Estimation for Millimeter-Wave Systems Using Butler Matrices. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 2670-2684	9.6	3
51	Robust massive MIMO equalization for mmWave systems with low resolution ADCs 2018 ,		2

50	Space-time adaptive principle component analysis for time-delay estimation 2014 ,		2
49	Design of Single User Limited Feedback Systems. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 5812-5825	9.6	2
48	Performance analysis of FBMC and CP-OFDM in the presence of phase noise 2017 ,		2
47	Arbitrary Beam Synthesis of Hybrid Beamforming Systems for Beam Training. <i>IEEE Wireless Communications Letters</i> , 2017 , 6, 714-717	5.9	2
46	Precoding under instantaneous per-antenna peak power constraint 2017 ,		2
45	Efficient frequency-domain fractionally-spaced equalizer for flexible digital coherent optical receivers 2015 ,		2
44	Training based Channel Estimation for Signal Equalization and OPM in 16 QAM Optical Transmission Systems 2012 ,		2
43	Enhancing the Network Sum-Rate without Sharing Channel State Information between Base Stations 2010 ,		2
42	Cost-constrained transmit processing in wireless cellular networks with universal frequency reuse 2010 ,		2
41	Nullators and norators in circuits education: A benefit or an obstacle? 2011 ,		2
40	Physical modeling of communication systems in information theory 2009 ,		2
39	Gaussian multiple access channel with compact antenna arrays 2011 ,		2
38	Clock synchronization based on distributed hidden state estimation 2009 ,		2
37	A Kalman Filter Approach To Clock Synchronization Of Cascaded Network Elements*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 54-59		2
36	PDL Monitoring based on the Eigenvalues Spread of a Data-Aided Zero-Forcing Frequency Domain Equalizer 2012 ,		2
35	Limits of Transmit and Receive Array Gain in Massive MIMO 2020 ,		2
34	Low SNR Asymptotic Rates of Vector Channels With One-Bit Outputs. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 7615-7634	2.8	2
33	Spatial coding based on minimum BER in 1-bit massive MIMO systems 2016 ,		2

32	Measurement-driven quality assessment of nonlinear systems by exponential replacement 2016,		2
31	Space-Constrained Mixed-ADC Massive MIMO 2019,		1
30	Performance comparison of hybrid and digital beamforming with transmitter impairments 2017,		1
29	On PAPR characteristics of DFT-s-OFDM with geometric and probabilistic constellation shaping 2017,		1
28	On the Impact of the Mutual Reactance on the Radiated Power and on the Achievable Rates. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 1179-1183	3.5	1
27	On the Statistical Properties of Constant Envelope Quantizers. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 1006-1009	5.9	1
26	Two-Phase Scheduling and Leakage-Based Precoding in Wireless Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 3148-3157	9.6	1
25	LNA noise parameter measurement 2015,		1
24	On the physical meaning of the model of two uncoupled isotrops 2012,		1
23	Frequency domain training-aided channel estimation and equalization in time-varying optical transmission systems 2012,		1
22	Training-aided frequency offset estimation in 16-QAM Nyquist transmission systems 2013,		1
21	Throughput maximization for energy harvesting nodes transmitting over time-varying channels 2013,		1
20	Average throughput maximization for energy harvesting transmitters with causal energy arrival information 2013,		1
19	2010,		1
18	Channel-adaptive coding for coarsely quantized MIMO systems 2010,		1
17	Efficient SER measurement method for OFDM receivers with nonlinear distortion 2009,		1
16	On energy efficient cross-layer assisted resource allocation in multiuser multicarrier systems 2009,		1
15	On Multiuser MIMO Multistream Transmission. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 5336-5341	5.341	1

14	On the relation of circuit theory and signals, systems and communications 2011 ,		1
13	Achievable rates in the SIMO-Uplink/MISO-downlink of an FDD system with imperfect CSI 2009 ,		1
12	The extended invariance principle applied to joint time-delay, frequency, and DOA estimation. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	1
11	Equalization of multiuser MIMO high speed downlink packet access 2008 ,		1
10	On the Problem of Bandwidth Partitioning in FDD Block-Fading Single-User MISO/SIMO Systems. <i>Eurasip Journal on Advances in Signal Processing</i> , 2008 , 2008,	1.9	1
9	Field modelling of a multiconductor digital bus 2007 ,		1
8	QoS-constrained Energy Minimization in Multiuser Multicarrier Systems. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2009 , 185-195	0.2	1
7	Position Information From Reflecting Surfaces. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 1300-1304	3.9	1
6	Quantized Constant Envelope Precoding for Frequency Selective Channels 2018 ,		1
5	Region 8: Importance of basic principles. <i>IEEE Circuits and Systems Magazine</i> , 2009 , 9, 37-38	3.2	0
4	Maximizing the SDMA Mobile Radio Capacity Increase by DOA Sensitive Channel Allocation. <i>Wireless Personal Communications</i> , 1999 , 11, 63-77	1.9	0
3	On Reciprocity in Physically Consistent TDD Systems With Coupled Antennas. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 6440-6453	9.6	0
2	Discrete-Time Signals and Systems. <i>Academic Press Library in Signal Processing</i> , 2014 , 1, 79-112		
1	On the relation of circuit theory and signals, systems and communications. <i>AEU - International Journal of Electronics and Communications</i> , 2011 , 65, 713-717	2.8	