

Sofiane Affes

List of Publications by Year in descending order

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328
times ranked

2661
citing authors

#	ARTICLE	IF	CITATIONS
1	On Optimal Frequency-Domain Multichannel Linear Filtering for Noise Reduction. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 260-276.	3.2	189
2	Radio Wave Characterization and Modeling in Underground Mine Tunnels. IEEE Transactions on Antennas and Propagation, 2008, 56, 540-549.	5.1	124
3	A Generalized Steered Response Power Method for Computationally Viable Source Localization. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 2510-2526.	3.2	122
4	A signal subspace tracking algorithm for microphone array processing of speech. IEEE Transactions on Speech and Audio Processing, 1997, 5, 425-437.	1.5	118
5	Recent Advances and Future Directions on Underwater Wireless Communications. Archives of Computational Methods in Engineering, 2020, 27, 1379-1412.	10.2	116
6	A Study of the LCMV and MVDR Noise Reduction Filters. IEEE Transactions on Signal Processing, 2010, 58, 4925-4935.	5.3	111
7	Radio-channel characterization of an underground mine at 2.4 GHz. IEEE Transactions on Wireless Communications, 2005, 4, 2441-2453.	9.2	104
8	An Integrated Solution for Online Multichannel Noise Tracking and Reduction. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 2159-2169.	3.2	95
9	On the performance analysis of composite multipath/shadowing channels using the G-distribution. IEEE Transactions on Communications, 2009, 57, 1162-1170.	7.8	90
10	On the capacity of generalized-k fading channels. IEEE Transactions on Wireless Communications, 2008, 7, 2441-2445.	9.2	73
11	Direction of Arrival Estimation Using the Parameterized Spatial Correlation Matrix. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1327-1339.	3.2	68
12	Collaborative Null-Steering Beamforming for Uniformly Distributed Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2010, 58, 1889-1903.	5.3	68
13	Gaussian Model-Based Multichannel Speech Presence Probability. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1072-1077.	3.2	67
14	On Spatial Aliasing in Microphone Arrays. IEEE Transactions on Signal Processing, 2009, 57, 1383-1395.	5.3	63
15	Estimating the Ergodic Capacity of Log-Normal Channels. IEEE Communications Letters, 2007, 11, 568-570.	4.1	61
16	Low-Cost Localization for Multihop Heterogeneous Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2016, 15, 472-484.	9.2	58
17	A Two-Stage Approach to Estimate the Angles of Arrival and the Angular Spreads of Locally Scattered Sources. IEEE Transactions on Signal Processing, 2008, 56, 1968-1983.	5.3	57
18	A new receiver structure for asynchronous CDMA: STAR-the spatio-temporal array-receiver. IEEE Journal on Selected Areas in Communications, 1998, 16, 1411-1422.	14.0	55

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19	On the Performance of Cooperative Relaying Spectrum-Sharing Systems with Collaborative Distributed Beamforming. IEEE Transactions on Communications, 2014, 62, 857-871.	7.8	55
20	Accurate Range-Free Localization in Multi-Hop Wireless Sensor Networks. IEEE Transactions on Communications, 2016, 64, 3886-3900.	7.8	52
21	Performance analysis of mobile radio systems over composite fading/shadowing channels with co-located interference. IEEE Transactions on Wireless Communications, 2009, 8, 3448-3453.	9.2	49
22	Robust ANNs-Based WSN Localization in the Presence of Anisotropic Signal Attenuation. IEEE Wireless Communications Letters, 2016, 5, 504-507.	5.0	48
23	On the Performance Analysis of Composite Multipath/Shadowing Channels Using the G-Distribution. , 2008, , .		46
24	Broadband Music: Opportunities and Challenges for Multiple Source Localization. , 2007, , .		45
25	On the capacity of log-normal fading channels. IEEE Transactions on Communications, 2009, 57, 1603-1607.	7.8	43
26	Distributed Beamforming for Wireless Sensor Networks With Improved Graph Connectivity and Energy Efficiency. IEEE Transactions on Signal Processing, 2010, 58, 1904-1921.	5.3	43
27	Cooperative Localization in Mines Using Fingerprinting and Neural Networks. , 2010, , .		41
28	Decentralized Relay Selection Schemes in Uniformly Distributed Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2012, 11, 938-951.	9.2	41
29	An algorithm for multisource beamforming and multitarget tracking. IEEE Transactions on Signal Processing, 1996, 44, 1512-1522.	5.3	40
30	Neural Networks for Fingerprinting-Based Indoor Localization Using Ultra-Wideband. Journal of Communications, 2009, 4, .	1.6	40
31	Cramer-Rao Lower Bounds for NDA SNR Estimates of Square QAM Modulated Transmissions. IEEE Transactions on Communications, 2010, 58, 3211-3218.	7.8	38
32	Moment-based SNR estimation over linearly-modulated wireless SIMO channels. IEEE Transactions on Wireless Communications, 2010, 9, 714-722.	9.2	38
33	Interference subspace rejection: a framework for multiuser detection in wideband CDMA. IEEE Journal on Selected Areas in Communications, 2002, 20, 287-302.	14.0	34
34	Robust Doppler Spread Estimation in the Presence of a Residual Carrier Frequency Offset. IEEE Transactions on Signal Processing, 2009, 57, 4148-4153.	5.3	34
35	A Non-Data-Aided Maximum Likelihood Time Delay Estimator Using Importance Sampling. IEEE Transactions on Signal Processing, 2011, 59, 4505-4515.	5.3	34
36	A Maximum Likelihood Time Delay Estimator in a Multipath Environment Using Importance Sampling. IEEE Transactions on Signal Processing, 2013, 61, 182-193.	5.3	34

#	ARTICLE	IF	CITATIONS
37	Impact of synchronization on performance of enhanced array-receivers in wideband CDMA networks. IEEE Journal on Selected Areas in Communications, 2001, 19, 2462-2476.	14.0	33
38	DOA Estimation of Temporally and Spatially Correlated Narrowband Noncircular Sources in Spatially Correlated White Noise. IEEE Transactions on Signal Processing, 2011, 59, 4108-4121.	5.3	33
39	SNR Estimation Over SIMO Channels From Linearly Modulated Signals. IEEE Transactions on Signal Processing, 2010, 58, 6017-6028.	5.3	32
40	Maximum Likelihood SNR Estimation of Linearly-Modulated Signals Over Time-Varying Flat-Fading SIMO Channels. IEEE Transactions on Signal Processing, 2015, 63, 441-456.	5.3	31
41	User-Centric Base-Station Wireless Access Virtualization for Future 5G Networks. IEEE Transactions on Communications, 2019, 67, 5190-5202.	7.8	31
42	A Distributed Amplify-and-Forward Beamforming Technique in Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2011, 59, 3657-3674.	5.3	30
43	On the Performance of Cascaded Generalized K Fading Channels. , 2009, , .		29
44	Analysis of CAPEX and OPEX benefits of wireless access virtualization. , 2013, , .		28
45	Maximum Likelihood Time Delay Estimation From Single- and Multi-Carrier DSSS Multipath MIMO Transmissions for Future 5G Networks. IEEE Transactions on Wireless Communications, 2017, 16, 4851-4865.	9.2	28
46	Closed-Form CRLBs for SNR Estimation From Turbo-Coded BPSK-, MSK-, and Square-QAM-Modulated Signals. IEEE Transactions on Signal Processing, 2014, 62, 4018-4033.	5.3	27
47	Relay-Assisted Mixed FSO/RF Systems Over M -ary α - β and κ - μ Shadowed Fading Channels. IEEE Wireless Communications Letters, 2017, 6, 682-685.	5.0	27
48	Adaptive Space-Time Processing for Wireless CDMA. Signals and Communication Technology, 2003, , 283-321.	0.5	27
49	Unified Stochastic Geometry Modeling and Analysis of Cellular Networks in LOS/NLOS and Shadowed Fading. IEEE Transactions on Communications, 2017, 65, 5470-5486.	7.8	26
50	A New OFDM Synchronization Symbol for Carrier Frequency Offset Estimation. IEEE Signal Processing Letters, 2007, 14, 321-324.	3.6	24
51	Distributed beamforming for wireless sensor networks with random node location. , 2009, , .		24
52	Closed-Form Expressions for the Exact Cram�r�Rao Bounds of Timing Recovery Estimators From BPSK, MSK and Square-QAM Transmissions. IEEE Transactions on Signal Processing, 2011, 59, 2474-2484.	5.3	24
53	Jointly Optimal Source Power Control and Relay Matrix Design in Multipoint-to-Multipoint Cooperative Communication Networks. IEEE Transactions on Signal Processing, 2011, 59, 4313-4330.	5.3	24
54	The Inverse Gaussian Distribution in Wireless Channels: Second-Order Statistics and Channel Capacity. IEEE Transactions on Communications, 2012, 60, 3167-3173.	7.8	24

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55	Broadband Source Localization From an Eigenanalysis Perspective. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1575-1587.	3.2	23
56	A HETERODYNE SIX-PORT FMCW RADAR SENSOR ARCHITECTURE BASED ON BEAT SIGNAL PHASE SLOPE TECHNIQUES. Progress in Electromagnetics Research, 2009, 93, 307-322.	4.4	22
57	Distributed Collaborative Beamforming in the Presence of Angular Scattering. IEEE Transactions on Communications, 2014, 62, 1668-1680.	7.8	22
58	Ergodic Capacity Analysis for Interference-Limited AF Multi-Hop Relaying Channels in Nakagami-m Fading. IEEE Transactions on Communications, 2013, 61, 2726-2734.	7.8	21
59	Robust adaptive beamforming via target tracking. IEEE Transactions on Signal Processing, 1996, 44, 1589-1593.	5.3	20
60	Design Optimization of Wireless Access Virtualization Based on Cost & QoS Trade-Off Utility Maximization. IEEE Transactions on Wireless Communications, 2016, 15, 6146-6162.	9.2	20
61	EM Algorithm for Non-Data-Aided SNR Estimation of Linearly-Modulated Signals over SIMO Channels. , 2009, , .		19
62	On the Global Output SNR of the Parameterized Frequency-Domain Multichannel Noise Reduction Wiener Filter. IEEE Signal Processing Letters, 2010, 17, 425-428.	3.6	19
63	SNR and throughput analysis of distributed collaborative beamforming in locally scattered environments. Wireless Communications and Mobile Computing, 2012, 12, 1620-1633.	1.2	19
64	Cooperative relaying in spectrum-sharing systems with beamforming and interference constraints. , 2012, , .		19
65	On the Ergodic Capacity of Amplify-and-Forward Relay Channels with Interference in Nakagami-m Fading. IEEE Transactions on Communications, 2013, 61, 3136-3145.	7.8	19
66	Linearly Constrained Minimum Variance Source Localization and Spectral Estimation. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 1490-1502.	3.2	17
67	Fractional-delay sequential blind beamforming for wireless multipath communications in confined areas. IEEE Transactions on Wireless Communications, 2008, 7, 629-638.	9.2	17
68	Distributed Beamforming for Spectrum-Sharing Systems With AF Cooperative Two-Way Relaying. IEEE Transactions on Communications, 2014, 62, 3180-3195.	7.8	17
69	Distributed Collaborative Beamforming Design for Maximized Throughput in Interfered and Scattered Environments. IEEE Transactions on Communications, 2015, 63, 4905-4919.	7.8	17
70	On the performance analysis of mixed multi-aperture FSO/multiuser RF relay systems with interference. , 2017, , .		17
71	Accurate Nodes Localization in Anisotropic Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 105682.	2.2	17
72	Direction of Arrival Estimation using Eigenanalysis of the Parameterized Spatial Correlation Matrix. , 2007, , .		16

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73	Robust Microstrip-to-Waveguide Transitions for Millimeter-Wave Radar Sensor Applications. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 759-762.	4.0	16
74	Closed-Form CRLBs for CFO and Phase Estimation From Turbo-Coded Square-QAM-Modulated Transmissions. IEEE Transactions on Wireless Communications, 2015, 14, 2513-2531.	9.2	16
75	Unified Analysis and Optimization of D2D Communications in Cellular Networks Over Fading Channels. IEEE Transactions on Communications, 2019, 67, 724-736.	7.8	16
76	A Multicarrier-CDMA Space-Time Receiver With Full-Interference-Suppression Capabilities. IEEE Transactions on Vehicular Technology, 2008, 57, 363-379.	6.3	15
77	Six-Port Interferometric Technique for Accurate π -Band Phase-Noise Measurements. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1372-1379.	4.6	15
78	SNR estimation of QAM-modulated transmissions over time-varying SIMO channels. , 2008, , .		15
79	Cram�r-Rao Lower Bounds for Frequency and Phase NDA Estimation From Arbitrary Square QAM-Modulated Signals. IEEE Transactions on Signal Processing, 2010, 58, 4517-4525.	5.3	15
80	Exact BER performance of asynchronous MC-DS-CDMA over fading channels [Transactions Letters. IEEE Transactions on Wireless Communications, 2010, 9, 1249-1254.	9.2	15
81	Efficient range-free localization algorithm for randomly distributed wireless sensor networks. , 2013, , .		15
82	Range-free localization algorithm for heterogeneous Wireless Sensor Networks. , 2014, , .		15
83	Distributed Beamforming for Two-Way DF Relay Cognitive Networks Under Primary�Secondary Mutual Interference. IEEE Transactions on Vehicular Technology, 2015, 64, 3918-3930.	6.3	15
84	Maximum Likelihood Joint Angle and Delay Estimation from Multipath and Multicarrier Transmissions with Application to Indoor Localization over IEEE 802.11ac Radio. IEEE Transactions on Mobile Computing, 2019, 18, 1116-1132.	5.8	15
85	Shadowed FSO/mmWave Systems With Interference. IEEE Transactions on Communications, 2019, 67, 6256-6267.	7.8	15
86	Fingerprinting Localization Using Ultra-Wideband and Neural Networks. , 2007, , .		14
87	Multi-port front-end and transceivers for V-band multi-gigabit/s communication systems. , 2011, , 707-732.		14
88	Generalized Moment-Based Method for SNR Estimation. , 2007, , .		13
89	Relay Selection Schemes for Uniformly Distributed Wireless Sensor Networks. , 2009, , .		13
90	Joint Source Power Control and Relay Beamforming in Amplify-and-Forward Cognitive Networks with Multiple Source-Destination Pairs. , 2011, , .		13

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91	Cramer-Rao Lower Bounds of DOA Estimates from Square QAM-Modulated Signals. IEEE Transactions on Communications, 2011, 59, 1675-1685.	7.8	13
92	Closed-Form Error Analysis of Variable-Gain Multihop Systems in Nakagami-m Fading Channels. IEEE Transactions on Communications, 2011, 59, 2285-2295.	7.8	13
93	Range-Free Localization Algorithm for Anisotropic Wireless Sensor Networks. , 2014, , .		13
94	Accurate Nodes Localization in Anisotropic Wireless Sensor Networks. , 2015, , .		13
95	Ergodic Capacity of Two-Hop Multiple Antenna AF Systems With Co-Channel Interference. IEEE Wireless Communications Letters, 2015, 4, 26-29.	5.0	13
96	Cramer-Rao Bound for NDA SNR Estimates of Square QAM Modulated Signals. , 2009, , .		12
97	Power-Constrained Distributed Implementation of SNR-Optimal Collaborative Beamforming in Highly-Scattered Environments. IEEE Wireless Communications Letters, 2015, 4, 457-460.	5.0	12
98	Multi-User Mixed FSO-RF Systems With Aperture Selection Under Poisson Field Interference. IEEE Access, 2019, 7, 73764-73781.	4.2	12
99	A Spectrum-Efficient Multicarrier CDMA Array-Receiver with Diversity-Based Enhanced Time and Frequency Synchronization. IEEE Transactions on Wireless Communications, 2007, 6, 2315-2327.	9.2	11
100	Moment-Based SNR Estimation for SIMO Wireless Communication Systems Using Arbitrary QAM. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	11
101	A Low-Cost and Robust Maximum Likelihood Joint Estimator for the Doppler Spread and CFO Parameters Over Flat-Fading Rayleigh Channels. IEEE Transactions on Communications, 2017, , 1-1.	7.8	11
102	Outage Analysis of Wireless Systems over Composite Fading/Shadowing Channels with Co-Channel Interference. , 2009, , .		10
103	On the Performance of Dual-Hop Fixed Gain Relaying Systems over Composite Multipath/Shadowing Channels. , 2010, , .		10
104	Analysis of collaborative beamforming designs in real-world environments. , 2013, , .		10
105	Cost-effective and accurate nodes localization in heterogeneous wireless sensor networks. , 2015, , .		10
106	Joint Carrier and Sampling Frequency Offset Estimation Based on Harmonic Retrieval. , 2006, , .		9
107	V-band Six-Port Down-conversion Techniques. , 2007, , .		9
108	A 60 GHz multipoint front-end architecture with integrated phased antenna array. Microwave and Optical Technology Letters, 2008, 50, 1371-1376.	1.4	9

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109	Low-Cost Transceiver Architectures for 60GHz Ultra Wideband WLANs. International Journal of Digital Multimedia Broadcasting, 2009, 2009, 1-6.	0.6	9
110	Cooperative geo-location in underground mines: A novel fingerprint positioning technique exploiting spatio-temporal diversity. , 2011, , .		9
111	Distributed Beamforming for Wireless Sensor Networks in Local Scattering Environments. , 2012, , .		9
112	Rough surface scattering analysis at 60 GHz in an underground mine gallery. , 2014, , .		9
113	HetNet Cloud: Leveraging SDN & Cloud Computing for Wireless Access Virtualization. , 2015, , .		9
114	Range-Free Nodes Localization in Mobile Wireless Sensor Networks. , 2015, , .		9
115	Comparative Study on a 60 GHz Path Loss Channel Modeling in a Mine Environment Using Neural Networks. , 2015, , .		9
116	Path loss exponent estimation using connectivity information in wireless sensor network. , 2016, , .		9
117	Enhanced range-free localization in wireless sensor networks using a new weighted hop-size estimation technique. , 2017, , .		9
118	Robust Distributed Collaborative Beamforming for Wireless Sensor Networks with Channel Estimation Impairments. Sensors, 2019, 19, 1061.	3.8	9
119	Multi-Node ML Time and Frequency Synchronization for Distributed MIMO-Relay Beamforming Over Time-Varying Flat-Fading Channels. IEEE Transactions on Communications, 2019, 67, 2702-2715.	7.8	9
120	Modulation-Based Simultaneous Wireless Information and Power Transfer. IEEE Communications Letters, 2020, 24, 136-140.	4.1	9
121	Distributed collaborative beamforming with minimum overhead for local scattering environments. , 2012, , .		8
122	Cost-effective localization in underground mines using new SIMO/MIMO-like fingerprints and artificial neural networks. , 2014, , .		8
123	Code-Aided DOA Estimation From Turbo-Coded QAM Transmissions: Analytical CRLBs and Maximum Likelihood Estimator. IEEE Transactions on Wireless Communications, 2017, 16, 2850-2865.	9.2	8
124	FPGA-SDR Integration and Experimental Validation of a Joint DA ML SNR and Doppler Spread Estimator for 5G Cognitive Transceivers. IEEE Access, 2019, 7, 69464-69480.	4.2	8
125	Angular Parameters Estimation of Multiple Incoherently Distributed Sources Generating Noncircular Signals. IEEE Access, 2019, 7, 38451-38468.	4.2	8
126	A New Construction of High Performance LDPC Matrices for Mobile Networks. Sensors, 2020, 20, 2300.	3.8	8

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127	Near-far resistant single-user channel identification by interference subspace rejection in wideband CDMA. , 0, , .		7
128	Iterative SNR Estimation for MPSK Modulation Over AWGN Channels. , 2006, , .		7
129	Characterization and Modeling of a Wireless Channel at 2.4 and 5.8 GHz in Underground Tunnels. , 2006, , .		7
130	Optimum Pulse Shaping for OFDM/BFDM Systems Operating in Time Varying Multi-Path Channels. , 2007, , .		7
131	Six-port FMCW collision avoidance radar sensor configurations. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	7
132	Design Considerations for an UWB Computationally-Efficient Fast Acquisition System for Indoor Line-of-Sight Ranging Applications. IEEE Transactions on Wireless Communications, 2011, 10, 2776-2784.	9.2	7
133	Exact Error Analysis of Dual-Hop Fixed-Gain AF Relaying over Arbitrary Nakagami-m Fading. , 2012, , .		7
134	Enhancing the performance of spectrum-sharing systems via collaborative distributed beamforming and AF relaying. , 2012, , .		7
135	Downlink interference cancellation strategy for shared-spectrum LTE HetNet. , 2013, , .		7
136	A low-cost and robust maximum likelihood doppler spread estimator. , 2013, , .		7
137	Time Synchronization of Turbo-Coded Square-QAM-Modulated Transmissions: Code-Aided ML Estimator and Closed-Form Cram�r�Rao Lower Bounds. IEEE Transactions on Vehicular Technology, 2017, 66, 10776-10792.	6.3	7
138	Capacity improvement of cellular CDMA by the subspace-tracking array-receiver. , 0, , .		6
139	Forward-link soft-handoff in CDMA with multiple-antenna selection and fast joint power control. IEEE Transactions on Wireless Communications, 2003, 2, 459-471.	9.2	6
140	A Computationally Efficient Implementation of a UWB Fast Acquisition Scheme. , 2007, , .		6
141	A Low-Cost Millimeter-Wave Six-Port Double-Balanced Mixer. , 2007, , .		6
142	Fast steered response power source localization using inverse mapping of relative delays. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	6
143	A new importance-sampling-based non-data-aided maximum likelihood time delay estimator. , 2011, , .		6
144	Efficient Node Localization in Energy-Harvesting Wireless Sensor Networks. , 2015, , .		6

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145	Service Differentiation in Software Defined Virtual Heterogeneous Wireless Networks. , 2015, , .		6
146	A subarray manifold revealing projection for partially blind identification and beamforming. IEEE Signal Processing Letters, 1996, 3, 187-189.	3.6	5
147	High Capacity Downlink Transmission with MIMO Interference Subspace Rejection in Multicellular CDMA Networks. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.7	5
148	Performance Analysis of MB-OFDM in the Presence of Multiple UWB Interferers. , 2007, , .		5
149	A 77â€GHz sixâ€port FMCW collision avoidance radar sensor with baseband analytical calibration. Microwave and Optical Technology Letters, 2009, 51, 720-725.	1.4	5
150	Bivariate G distribution with arbitrary fading parameters. , 2009, , .		5
151	New insights into non-causal multichannel linear filtering for noise reduction. , 2009, , .		5
152	Closed-Form Expressions for the Exact Cramer-Rao Bound for Parameter Estimation of Arbitrary Square QAM-Modulated Signals. , 2009, , .		5
153	DOA Estimation for ULA Systems from Short Data Snapshots: An Annihilating Filter Approach. , 2011, , .		5
154	Spectrum-efficient distributed collaborative beamforming in the presence of local scattering and interference. , 2012, , .		5
155	Hop-count based localization algorithm for wireless sensor networks. , 2013, , .		5
156	A new importance-sampling ML estimator of time delays and angles of arrival in multipath environments. , 2014, , .		5
157	Closed-form Cramer-Rao lower bounds for DOA estimation from turbo-coded square-QAM-modulated transmissions. , 2015, , .		5
158	Accurate Sensors Localization in Underground Mines or Tunnels. , 2015, , .		5
159	Multi-Cell Full-Duplex Wireless Communication for Dense Urban Deployment. , 2016, , .		5
160	Capacity Scaling Laws in Interference-Limited Multiple-Antenna AF Relay Networks With User Scheduling. IEEE Transactions on Communications, 2016, 64, 3284-3295.	7.8	5
161	Transmit Diversity for FSO/RF-Based Multiuser Networks. , 2020, , .		5
162	Design Verification and Performance Evaluation of an Enhanced Wideband CDMA Receiver Using Channel Measurements. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	4

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163	Efficient Sequential Blind Beamforming for Wireless Underground Communications. , 2006, , .		4
164	A New Approach to Blind Separation of Two Sources with Three Sensors. , 2006, , .		4
165	SIR Optimized Hermite-Based Pulses for BFD Systems in Doubly Dispersive Channels. , 2007, , .		4
166	A decision-directed SNR estimator for QAM signals over time-varying SIMO channels. , 2008, , .		4
167	System-Level Evaluation of a Downlink OFDM Kalman-Based Switched-Beam System with Subcarrier Allocation Strategies. , 2008, , .		4
168	On optimal beamforming for noise reduction and interference rejection. , 2009, , .		4
169	An Information-Theoretic View of Array Processing. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 392-401.	3.2	4
170	Cramer-Rao Bounds for SNR Estimates in Multicarrier Transmissions. , 2009, , .		4
171	Cramer-Rao Bound for NDA DOA Estimates of Square QAM-Modulated Signals. , 2009, , .		4
172	Radio-localization in underground narrow-vein mines using neural networks with in-built tracking and time diversity. , 2011, , .		4
173	Reactive relay selection in cooperative spectrum-sharing systems. , 2012, , .		4
174	Distributed beamforming for spectrum-sharing relay networks under mutual primary-secondary interference. , 2014, , .		4
175	Maximum likelihood SNR estimation over time-varying flat-fading SIMO channels. , 2014, , .		4
176	Scattering effect based on measurements of reflection coefficients at 60 GHz in an underground mine gallery. , 2014, , .		4
177	Experimental Results of Rician K-Factor and Co-Polarization Ratio of 60 GHz Wireless Channel in an Underground Mine Gallery. , 2015, , .		4
178	Optimal anchors placement strategy for super accurate nodes localization in anisotropic wireless sensor networks. , 2016, , .		4
179	Low-complexity DOA estimation from short data snapshots for ULA systems using the annihilating filter technique. Eurasip Journal on Advances in Signal Processing, 2017, 2017, .	1.7	4
180	Distributed Zero-Forcing Amplify-and-Forward Beamforming for WSN Operation in Interfered and Highly Scattered Environments. IEEE Transactions on Communications, 2020, 68, 1187-1199.	7.8	4

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181	Accurate BER of MC-DS-CDMA over Rayleigh fading channels. , 2007, , 147-156.		4
182	Partial interference subspace rejection in CDMA systems. , 0, , .		3
183	Pilot-assisted STAR for increased capacity and coverage on the downlink of wideband CDMA networks. , 0, , .		3
184	A Downlink Switched-Beam OFDM Pilot Scheme Based on Subcarrier-Multiplexing. , 2006, , .		3
185	Impact of Pulse Shapes on the Performance of an Ultra-Wideband Multiple-Access Fast Acquisition System. , 2007, , .		3
186	System-level evaluation of a downlink OFDM switched-beam system with Kalman-based joint channel estimation and beam selection. , 2008, , .		3
187	On the Level Crossing Rate and Average Fade Duration of Composite Multipath/Shadowing Channels. , 2008, , .		3
188	Analysis of multi-user detection of multi-rate transmissions in multi-cellular CDMA. Wireless Communications and Mobile Computing, 2009, 9, 1-20.	1.2	3
189	Large-System-Based Performance Analysis and Design of Multiuser Cooperative Networks. IEEE Transactions on Signal Processing, 2009, 57, 1511-1525.	5.3	3
190	Distributed Null-Steering Beamforming for Wireless Sensor Networks. , 2009, , .		3
191	Joint Power Control and Relay Matrix Design for Cooperative Communication Networks with Multiple Source-Destination Pairs. , 2010, , .		3
192	Maximum likelihood time delay estimation for Direct-Spread CDMA multipath transmissions using importance sampling. , 2011, , .		3
193	Joint Estimation of the Ricean K-Factor and the SNR for SIMO Systems Using Higher Order Statistics. , 2011, , .		3
194	Cooperative two-way selective relaying in spectrum-sharing systems with distributed beamforming. , 2013, , .		3
195	Capacity and Error Rate Analysis of Cognitive MIMO AF Relaying Systems. IEEE Wireless Communications Letters, 2014, 3, 665-668.	5.0	3
196	Combined Interference Cancellation and Avoidance over the Downlink of Spectrum-Sharing LTE HetNet. , 2015, , .		3
197	Configuration cost vs. QoS trade-off analysis and optimization of SDR access virtualization schemes. , 2015, , .		3
198	Multi-antenna cognitive AF relay systems with multiple primary receivers. , 2015, , .		3

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199	A context-aware cognitive SIMO transceiver for enhanced throughput on the downlink of LTE HetNet. Wireless Communications and Mobile Computing, 2016, 16, 1414-1430.	1.2	3
200	Interference-limited mixed M ₁ -M and generalized-K dual-hop FSO/RF systems. , 2017, , .		3
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