

Sofie Pollin

List of Publications by Year in descending order

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267
papers

6,121
citations

186265

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133252

59
g-index

278
all docs

278
docs citations

278
times ranked

5018
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined RF-Based Drone Detection and Classification. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 111-120.	7.9	30
2	Toward Fine-Grained Indoor Localization Based on Massive MIMO-OFDM System: Experiment and Analysis. IEEE Sensors Journal, 2022, 22, 5318-5328.	4.7	15
3	Joint In-Band Full-Duplex Communication and Radar Processing. IEEE Systems Journal, 2022, 16, 3391-3399.	4.6	4
4	Multipath Ghost Recognition for Indoor MIMO Radar. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	18
5	Evolutionary Optimization of Residual Neural Network Architectures for Modulation Classification. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 542-556.	7.9	4
6	Internet of Things Networks: Enabling Simultaneous Wireless Information and Power Transfer. IEEE Microwave Magazine, 2022, 23, 39-54.	0.8	8
7	Multi-View CNN-LSTM Architecture for Radar-Based Human Activity Recognition. IEEE Access, 2022, 10, 24509-24519.	4.2	23
8	Cell-Free mMIMO Support in the O-RAN Architecture: A PHY Layer Perspective for 5G and Beyond Networks. IEEE Communications Standards Magazine, 2022, 6, 28-34.	4.9	24
9	Expert-Knowledge-Based Data-Driven Approach for Distributed Localization in Cell-Free Massive MIMO Networks. IEEE Access, 2022, 10, 56427-56439.	4.2	2
10	Evaluation of Beamsteering Performance in MultiuserMIMO Unmanned Aerial Base Stations Networks. IEEE Access, 2022, 10, 62565-62580.	4.2	2
11	In-Band Full-Duplex Radar-Communication System. IEEE Systems Journal, 2021, 15, 1086-1097.	4.6	18
12	Full-Duplexing With SDR Devices: Algorithms, FPGA Implementation, and Real-Time Results. IEEE Transactions on Wireless Communications, 2021, 20, 2205-2220.	9.2	17
13	RF Energy Harvesting from GFSK-Modulated BLE Signals. , 2021, , .		9
14	Electro-Smog Monitoring Using Low-Cost Software-Defined Radio Dongles. IEEE Access, 2021, 9, 107149-107158.	4.2	2
15	Partial Interference Suppression in Massive MIMO Systems: Taxonomy and Experimental Analysis. IEEE Access, 2021, 9, 128925-128937.	4.2	0
16	Drone classification from RF fingerprints using deep residual nets. , 2021, , .		26
17	Edge Computing Assisted Autonomous Flight for UAV: Synergies between Vision and Communications. IEEE Communications Magazine, 2021, 59, 28-33.	6.1	26
18	A Cram�r-Rao Lower Bound for Analyzing the Localization Performance of a Multistatic Joint Radar-Communication System. , 2021, , .		6

#	ARTICLE	IF	CITATIONS
19	Performance analysis of in-band collision detection for dense wireless networks. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	2.4	0
20	BlendVLC: A Cell-free VLC Network Architecture Empowered by Beamspot Blending. , 2021, , .		4
21	Learning the unknown: Improving modulation classification performance in unseen scenarios. , 2021, , .		15
22	Densely Deployed Indoor Massive MIMO Experiment: From Small Cells to Spectrum Sharing to Cooperation. Sensors, 2021, 21, 4346.	3.8	2
23	Association in Dense Cell-Free mmWave Networks. , 2021, , .		2
24	Spatial Correlation in Indoor Massive MIMO: Measurements and Ray Tracing. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 903-907.	4.0	4
25	Weave and Conquer: A Measurement-based Analysis of Dense Antenna Deployments. , 2021, , .		8
26	Indoor Tracking of Multiple Individuals With an 802.11ax Wi-Fi-Based Multi-Antenna Passive Radar. IEEE Sensors Journal, 2021, 21, 20462-20474.	4.7	12
27	Indoor Direct Positioning With Imperfect Massive MIMO Array Using Measured Near-Field Channels. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	7
28	Aerial Vehicles Tracking Using Noncoherent Crowdsourced Wireless Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 10780-10791.	6.3	8
29	Local Uplink Processing in Cell-Free Networks: A New Approach. , 2021, , .		1
30	Towards Machine-Learning-Based 5G and Beyond Intelligent Networks: The MARSAL Project Vision. , 2021, , .		8
31	CNN-based Burst Signal Detection with Covariance Matrix. , 2021, , .		1
32	Nonlinear Distortion in Distributed Massive MIMO Systems: An Indoor Channel Measurement Analysis. , 2021, , .		0
33	Crowdsourced Wireless Spectrum Anomaly Detection. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 694-703.	7.9	18
34	Avoiding Collisions at Any (Low) Cost: ADS-B Like Position Broadcast for UAVs. IEEE Access, 2020, 8, 121843-121857.	4.2	18
35	Fixed mmWave Multi-User MIMO: Performance Analysis and Proof-of-Concept Architecture. , 2020, , .		5
36	User Scheduling and Antenna Topology in Dense Massive MIMO Networks: An Experimental Study. IEEE Transactions on Wireless Communications, 2020, 19, 6210-6223.	9.2	7

#	ARTICLE	IF	CITATIONS
37	Matrix Pencil Method: Angle of Arrival and Channel Estimation for a Massive MIMO system. , 2020, , .		2
38	CSI-based Positioning in Massive MIMO systems using Convolutional Neural Networks. , 2020, , .		53
39	Transmission Strategy for Simultaneous Wireless Information and Power Transfer with a Non-Linear Rectifier Model. Electronics (Switzerland), 2020, 9, 1082.	3.1	8
40	Electrosense+: Crowdsourcing radio spectrum decoding using IoT receivers. Computer Networks, 2020, 174, 107231.	5.1	12
41	Exploiting Blockage in VLC Networks Through User Rotations. IEEE Open Journal of the Communications Society, 2020, 1, 1084-1099.	6.9	9
42	Massive MIMO Indoor Localization with 64-Antenna Uniform Linear Array. , 2020, , .		6
43	MaMIMO CSI-Based Positioning using CNNs: Peeking inside the Black Box. , 2020, , .		15
44	A Blind Beam Tracking Scheme for Millimeter Wave Systems. , 2020, , .		3
45	Instantaneous Signal Collision Detection Using In-Band Full-Duplex: Machine Learning VS Domain-specific Knowledge. , 2020, , .		2
46	TDMA Scheduling in Spatially Extended LiFi Networks. IEEE Open Journal of the Communications Society, 2020, 1, 1524-1538.	6.9	5
47	Simulation-based Investigation on Massive Multi-Antenna System as to Spatial Channel Hardening for Mobile Single User in a Controlled Multipath Environment. , 2020, , .		4
48	Poster: Securing IoT Through Coverage-Bounding Wireless Communication With Visible Light. , 2020, , .		0
49	Breaking Down Network Slicing: Hierarchical Orchestration of End-to-End Networks. IEEE Communications Magazine, 2020, 58, 16-22.	6.1	13
50	UAV-to-UAV Communications in Cellular Networks. IEEE Transactions on Wireless Communications, 2020, 19, 6130-6144.	9.2	115
51	A Cell-Free Networking System With Visible Light. IEEE/ACM Transactions on Networking, 2020, 28, 461-476.	3.8	26
52	Enabling Virtual Radio Functions on Software Defined Radio for Future Wireless Networks. Wireless Personal Communications, 2020, 113, 1579-1595.	2.7	5
53	Wireless Communication for Safe UAVs: From Long-Range Deconfliction to Short-Range Collision Avoidance. IEEE Vehicular Technology Magazine, 2020, 15, 88-95.	3.4	27
54	Energy Efficiency of Multiple-Input, Multiple-Output Architectures: Future 60-GHz Applications. IEEE Vehicular Technology Magazine, 2020, 15, 65-71.	3.4	9

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55	3D beamforming and handover analysis for UAV networks. , 2020, , .		11
56	SkySense. , 2020, , .		2
57	Massive MIMO: A Measurement-Based Analysis of MR Power Distribution. , 2020, , .		3
58	Spatial Channel Hardening For LiFi Networks. , 2020, , .		0
59	Spectrum Sharing Strategies for UAV-to-UAV Cellular Communications. , 2020, , .		3
60	Massive MIMO goes Sub-GHz: Implementation and Experimental Exploration for LPWANs. , 2020, , .		3
61	Database-Assisted Spectrum Prediction in 5G Networks and Beyond: A Review and Future Challenges. IEEE Circuits and Systems Magazine, 2019, 19, 34-45.	2.3	14
62	Active Power Splitter Gain and Bandwidth Optimization for a 60 GHz Hybrid MIMO System. , 2019, , .		1
63	Localization in Ultra Narrow Band IoT Networks: Design Guidelines and Tradeoffs. IEEE Internet of Things Journal, 2019, 6, 9375-9385.	8.7	16
64	SDN on BLE: Controlling Resource Constrained Mesh Networks. , 2019, , .		2
65	Convolutional Long Short-Term Memory Networks for Doppler-Radar Based Target Classification. , 2019, , .		9
66	UAV Interference to Existing Satellite Services in C-band. , 2019, , .		1
67	Smile, you are in the spotlight!. , 2019, , .		0
68	Partial Multi-Cell MMSE Vector Combining to Reduce Computational Cost for Massive MIMO Systems. , 2019, , .		3
69	Doppler Radar with In-Band Full Duplex Radios. , 2019, , .		7
70	UAV Location Broadcasting with Wi-Fi SSID. , 2019, , .		5
71	Unsupervised Wireless Spectrum Anomaly Detection With Interpretable Features. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 637-647.	7.9	48
72	Multitone FSK Modulation for SWIPT. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1665-1674.	4.6	32

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73	Cellular Connectivity for UAVs: Network Modeling, Performance Analysis, and Design Guidelines. IEEE Transactions on Wireless Communications, 2019, 18, 3366-3381.	9.2	132
74	A Multiprotocol Low-Cost Automated Testbed for BLE Mesh. IEEE Communications Magazine, 2019, 57, 76-83.	6.1	44
75	Efficient Spectrum Usage for Wireless Communications. Wireless Communications and Mobile Computing, 2019, 2019, 1-2.	1.2	3
76	Discussion on Rectifier Models for Wireless Power Transfer Excitation Design. , 2019, , .		0
77	Analysis of Channel Hardening for SWIPT using Measured Massive MIMO Channels. , 2019, , .		2
78	A Wideband Efficient Rectifier Design for SWIPT. , 2019, , .		7
79	Receiving ASK-OFDM in Low Power SWIPT Nodes without Local Oscillators. , 2019, , .		7
80	MaMIMO User Grouping Strategies: How much does it matter?. , 2019, , .		3
81	Improving Blockage Robustness in VLC Networks. , 2019, , .		14
82	Deep Reinforcement Learning for Dynamic Network Slicing in IEEE 802.11 Networks. , 2019, , .		18
83	Experimental Study of User Selection for Dense Indoor Massive MIMO. , 2019, , .		4
84	Convolutional LSTM-based Long-Term Spectrum Prediction for Dynamic Spectrum Access. , 2019, , .		34
85	Cellular UAV-to-UAV Communications. , 2019, , .		25
86	Cellular Coverage-Aware Path Planning for UAVs. , 2019, , .		15
87	Keeping UAVs Under Control During GPS Jamming. IEEE Systems Journal, 2019, 13, 2010-2021.	4.6	19
88	Multi-User Hybrid MIMO at 60 GHz Using 16-Antenna Transmitters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 848-858.	5.4	24
89	A Low-Latency Wireless Network for Cloud-Based Robot Control. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 46-51.	0.3	0
90	Modulation Techniques for Simultaneous Wireless Information and Power Transfer With an Integrated Rectifierâ€“Receiver. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2373-2385.	4.6	38

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91	Aerial Anchors Positioning for Reliable RSS-Based Outdoor Localization in Urban Environments. IEEE Wireless Communications Letters, 2018, 7, 376-379.	5.0	63
92	Key Technologies and System Trade-offs for Detection and Localization of Amateur Drones. IEEE Communications Magazine, 2018, 56, 51-57.	6.1	89
93	Bandwidth Analysis of RF-DC Converters Under Multisine Excitation. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 791-802.	4.6	36
94	Electrosense: Open and Big Spectrum Data. , 2018, 56, 210-217.		100
95	TouchSpeaker, a Multi-sensor Context-Aware Application for Mobile Devices: from Application to Implementation. Journal of Signal Processing Systems, 2018, 90, 1469-1478.	2.1	1
96	Improving Reliability and Scalability of LoRaWANs Through Lightweight Scheduling. IEEE Internet of Things Journal, 2018, 5, 1830-1842.	8.7	169
97	Energy-Efficient Digital Front-End Processor for 60 GHz Polar Transmitter. Journal of Signal Processing Systems, 2018, 90, 777-789.	2.1	1
98	Ultra Reliable UAV Communication Using Altitude and Cooperation Diversity. IEEE Transactions on Communications, 2018, 66, 330-344.	7.8	309
99	SAIFE: Unsupervised Wireless Spectrum Anomaly Detection with Interpretable Features. , 2018, , .		43
100	Effect of Limiter Based PAPR Reduction for Massive MIMO Systems. , 2018, , .		1
101	Two-tone FSK Modulation for SWIPT. , 2018, , .		3
102	DenseVLC. , 2018, , .		22
103	Energy-Constrained UAV Trajectory Design for Ground Node Localization. , 2018, , .		46
104	Hardware and Spectrum Sharing for Distributed Massive MIMO. , 2018, , .		5
105	An In-Band Full-Duplex Transceiver for Simultaneous Communication and Environmental Sensing. , 2018, , .		10
106	Location Verification based on Radio Irregularity: Sequential Evaluation and Performance Assessment. , 2018, , .		1
107	Deep-learning based Cooperative Spectrum Prediction for Cognitive Networks. , 2018, , .		18
108	Phase-Noise Mitigation at 60 GHz with a Novel Hybrid MIMO Architecture. , 2018, , .		3

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109	Tutorial on UAVs: A Blue Sky View on Wireless Communication. Journal of Mobile Multimedia, 2018, 14, 395-468.	0.9	30
110	Simulation and Detection Performance Evaluation of a UAV-mounted Passive Radar. , 2018, , .		17
111	Aerial Coverage Analysis of Cellular Systems at LTE and mmWave Frequencies Using 3D City Models. Sensors, 2018, 18, 4311.	3.8	31
112	Increasing Throughput of Dense-Transmitter VLC Networks through Adaptive Distributed MISO. , 2018, , .		3
113	A Multiple-Relay Communication Protocol for Achieving Fairness in Dense Networks. IEEE Access, 2018, 6, 6740-6754.	4.2	1
114	Enhanced Biased ASK Modulation Performance for SWIPT With AWGN Channel and Dual-Purpose Hardware. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3478-3486.	4.6	32
115	Reshaping Cellular Networks for the Sky: Major Factors and Feasibility. , 2018, , .		49
116	Multi-User Frequency-Selective Hybrid MIMO Demonstrated Using 60 GHz RF Modules. , 2018, , .		4
117	When Autonomous Drones Meet Driverless Cars. , 2018, , .		3
118	Deep Learning Models for Wireless Signal Classification With Distributed Low-Cost Spectrum Sensors. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 433-445.	7.9	461
119	Massive MIMO for SWIPT: A Measurement-Based Study of Precoding. , 2018, , .		8
120	Pilot Contamination in Massive MIMO: A Measurement-Based Analysis Using 2D-MUSIC. , 2018, , .		2
121	Building a connected BLE mesh: A network inference study. , 2018, , .		10
122	Uplink performance analysis of a drone cell in a random field of ground interferers. , 2018, , .		11
123	A LoRaWAN module for ns-3. , 2018, , .		33
124	Saving energy in WSNs for acoustic surveillance applications while maintaining QoS. , 2017, , .		12
125	Teaching Communication Technologies and Standards for the Industrial IoT? Use 6TiSCH!. , 2017, 55, 132-137.		32
126	Multidisciplinary Learning through Implementation of the DVB-S2 Standard. IEEE Communications Magazine, 2017, 55, 124-130.	6.1	4

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127	Electrosense: Crowdsourcing spectrum monitoring. , 2017, , .		9
128	Nearly instantaneous collision and interference detection using in-band full duplex. , 2017, , .		1
129	Finite Large Antenna Arrays for Massive MIMO: Characterization and System Impact. IEEE Transactions on Antennas and Propagation, 2017, 65, 6712-6720.	5.1	50
130	Hybrid rectifier-receiver node. , 2017, , .		4
131	Analysis of out-of-band interference from saturated power amplifiers in Massive MIMO. , 2017, , .		11
132	Adaptive in-band full-duplex collision detection for balancing sensing and collision costs. , 2017, , .		0
133	Localization in long-range ultra narrow band IoT networks using RSSI. , 2017, , .		44
134	Power and spreading factor control in low power wide area networks. , 2017, , .		129
135	uLoRa. , 2017, , .		6
136	SWIPT with biased ASK modulation and dual-purpose hardware. , 2017, , .		12
137	Double Relay Communication Protocol with power control for achieving fairness in cellular systems. , 2017, , .		0
138	Multi-sine wireless power transfer with a realistic channel and rectifier model. , 2017, , .		5
139	Towards instantaneous collision and interference detection using in-band full duplex. , 2017, , .		4
140	DySPAN Spectrum Challenge: Situational Awareness and Opportunistic Spectrum Access Benchmarked. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 550-562.	7.9	15
141	Coexistence of Terrestrial and Aerial Users in Cellular Networks. , 2017, , .		124
142	Coverage maximization for a poisson field of drone cells. , 2017, , .		37
143	Scaling up distributed massive MIMO: Why and how. , 2017, , .		8
144	Link adaptation in massive MIMO: Throughput-fairness trade-off. , 2017, , .		2

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145	Measurement-based analysis of the throughput-power level trade-off with modulated multisine signals in a SWIPT system. , 2017, , .		14
146	Bluetooth now or low energy: Should BLE mesh become a flooding or connection oriented network?. , 2017, , .		24
147	Impact of interference correlation on the decoding error statistics. , 2017, , .		0
148	Exploiting the overhearing capabilities of transmitting nodes to increase the energy efficiency in dense networks. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	2.4	1
149	Distributed Massive MIMO: A Diversity Combining Method for TDD Reciprocity Calibration. , 2017, , .		18
150	Coverage and Power Gain of Aerial Versus Terrestrial Base Stations. Lecture Notes in Electrical Engineering, 2017, , 627-636.	0.4	2
151	Understanding Interdependency Through Complex Information Sharing. Entropy, 2016, 18, 38.	2.2	30
152	Range and coexistence analysis of long range unlicensed communication. , 2016, , .		167
153	Impact of multisine excitation design on rectifier performance. , 2016, , .		8
154	Exploration of User Separation Capabilities by Distributed Large Antenna Arrays. , 2016, , .		15
155	Optimal UAV Positioning for Terrestrial-Aerial Communication in Presence of Fading. , 2016, , .		60
156	Joint Sum-Rate and Power Gain Analysis of an Aerial Base Station. , 2016, , .		52
157	Chirp spread spectrum as a modulation technique for long range communication. , 2016, , .		169
158	TouchSpeaker, a Multi-Sensor Context-Aware Application for Mobile Devices. , 2016, , .		3
159	In-Air Ultrasonic 3D-Touchscreen with Gesture Recognition Using Existing Hardware for Smart Devices. , 2016, , .		9
160	Energy-efficient Double Relay Communication Protocol in cellular networks. , 2016, , .		0
161	LTE in the sky: trading off propagation benefits with interference costs for aerial nodes. IEEE Communications Magazine, 2016, 54, 44-50.	6.1	434
162	Performance analysis of in-band full duplex collision and interference detection in dense networks. , 2016, , .		13

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163	Evaluation of TSCH/IEEE 802.15.4e in a Domestic Network Environment. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 257-262.	0.3	2
164	IEEE 5G Spectrum Sharing Challenge: A Practical Evaluation of Learning and Feedback. , 2016, 54, 210-216.		12
165	Impact of CSI Feedback Strategies on LTE Downlink and Reinforcement Learning Solutions for Optimal Allocation. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	12
166	Optimizing the Code Rate of Energy-Constrained Wireless Communications With HARQ. IEEE Transactions on Wireless Communications, 2016, 15, 191-205.	9.2	26
167	An Energy-Efficient Reconfigurable ASIP Supporting Multi-mode MIMO Detection. Journal of Signal Processing Systems, 2016, 85, 5-21.	2.1	1
168	An adaptive channel selection scheme for reliable TSCH-based communication. , 2015, , .		4
169	On the performance of 802.15.4e in the real world. , 2015, , .		1
170	Double relay communication protocol for bandwidth management in cellular systems. , 2015, , .		4
171	Energy-efficient MIMO multihop communications using the antenna selection scheme. , 2015, , .		3
172	Using mobility for increasing the energy efficiency of multihop communications. , 2015, , .		4
173	Adaptive CSI and feedback estimation in LTE and beyond: a Gaussian process regression approach. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	35
174	An energy-scalable in-band full duplex architecture. , 2015, , .		2
175	Parallelized correlator bank for a 1 GHz bandwidth phase modulated CW radar in the 79GHz band. , 2015, , .		2
176	<30 mW rectangular-to-polar conversion processor in 802.11ad polar transmitter. , 2015, , .		7
177	Amplitude and frequency analysis of multi-sine wireless power transfer. , 2015, , .		14
178	Gaussian Process Regression for CSI and feedback estimation in LTE. , 2015, , .		3
179	Real-time RF self-interference cancellation for in-band full duplex. , 2015, , .		21
180	Closing the loop in unlicensed spectrum: Challenging real-time sensor networks. , 2015, , .		0

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181	Opportunities and Challenges of Digital Signal Processing in Deeply Technology-Scaled Transceivers. Journal of Signal Processing Systems, 2015, 78, 5-19.	2.1	8
182	Non-iterative method for finding optimised switching sequence to compensate gradient errors in current-steered DAC. Electronics Letters, 2015, 51, 138-139.	1.0	8
183	On the General Mathematical Framework, Calibration/Compensation Method, and Applications of Non-Ideal Software Defined Harmonics Rejection Transceivers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 292-301.	5.4	6
184	Scalable HetNet interference management and the impact of limited channel state information. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	7
185	Analysis of Harmful Interference to and from Aerial IEEE 802.11 Systems.. , 2015, , .		11
186	Efficient Timing Mismatch Correction for Low-Cost Digital-Mixing Transmitter. IEEE Transactions on Signal Processing, 2015, 63, 6553-6564.	5.3	4
187	Analysis and Experimental Verification of Frequency-Based Interference Avoidance Mechanisms in IEEE 802.15.4. IEEE/ACM Transactions on Networking, 2015, 23, 369-382.	3.8	27
188	Scalable LTE interference mitigation solution for HetNet deployment. , 2014, , .		5
189	Analysis of energy harvesting for green cognitive radio networks. , 2014, , .		3
190	Efficient duty-cycle mismatch compensation in digital transmitter. , 2014, , .		1
191	Exploiting transport-block constraints in LTE improves downlink performance. , 2014, , .		2
192	Towards approaching near-optimal MIMO detection performance ONAC-programmable baseband processor. , 2014, , .		1
193	CLAWS: Cross-Layer Adaptable Wireless System enabling full cross-layer experimentation on real-time software-defined 802.15.4. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	2.4	10
194	Energy-delay analysis of full duplex wireless communication for sensor networks. , 2014, , .		14
195	Micro aerial vehicle networks: an experimental analysis of challenges and opportunities. , 2014, 52, 141-149.		103
196	DIFFS: A Low Power, Multi-Mode, Multi-Standard Flexible Digital Front-End for Sensing in Future Cognitive Radios. Journal of Signal Processing Systems, 2014, 76, 109-120.	2.1	1
197	Reduction of HARQ memory in low mobility LTE systems. , 2013, , .		4
198	Exploration of Full HD Media Decoding on a Software Defined Radio Baseband Processor. IEEE Transactions on Signal Processing, 2013, 61, 4438-4449.	5.3	3

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199	Exploration of Lattice Reduction Aided Soft-Output MIMO Detection on a DLP/ILP Baseband Processor. IEEE Transactions on Signal Processing, 2013, 61, 5878-5892.	5.3	7
200	Dynamic channel selection algorithms for coexistence of wireless sensor networks and wireless LANs. , 2013, , .		4
201	Adaptive filter based low complexity digital intensive harmonic rejection for SDR receiver. , 2013, , .		2
202	Efficient self-correction scheme for static non-idealities in nano-scale quadrature digital RF transmitters. , 2013, , .		1
203	A computationally efficient soft-output Lattice Reduction-aided Selective Spanning Sphere Decoder for wireless MIMO systems. , 2013, , .		0
204	Spectrum sensing for cognitive wireless applications inside aircraft cabins. , 2012, , .		3
205	Exploiting frequency correlation in LTE to reduce HARQ memory. , 2012, , .		3
206	Reduced Complexity On-chip IQ-Imbalance Self-Calibration. , 2012, , .		8
207	Interference robust SDR FE receiver. , 2012, , .		1
208	Exploration of Full HD Media Decoding on SDR Baseband Processor. , 2012, , .		0
209	A Generic Framework for Optimizing Digital Intensive Harmonic Rejection Receivers. , 2012, , .		5
210	Avoiding collisions between IEEE 802.11 and IEEE 802.15.4 through coexistence aware clear channel assessment. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	30
211	Selective channelization on an SDR platform for LTE-a carrier aggregation. , 2012, , .		0
212	Analysis of power efficiency of schedulers in LTE. , 2012, , .		7
213	Reliable power control for secondary users based on distributed measurements. , 2011, , .		0
214	An integrated reconfigurable engine for multi-purpose sensing up to 6 GHz. , 2011, , .		12
215	Beamforming for interference mitigation and its implementation on an SDR baseband processor. , 2011, , .		3
216	Tone detection of non-uniformly undersampled signals with frequency excision. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
217	Energy efficient PRACH detector algorithm in SDR for LTE femtocells. , 2011, , .		3
218	The value of sensing for TV White Spaces. , 2011, , .		32
219	Energy-throughput simulation approach for heterogeneous LTE scenarios. , 2011, , .		0
220	Performance evaluation of sensing solutions for LTE and DVB-T. , 2011, , .		8
221	Scalable Block-Based Parallel Lattice Reduction Algorithm for an SDR Baseband Processor. , 2011, , .		7
222	SPARSE SIGNAL SENSING WITH NON-UNIFORM UNDERSAMPLING AND FREQUENCY EXCISION. , 2011, , .		4
223	Experimental assessment of tradeoffs among spectrumsensing platforms. , 2011, , .		7
224	Versatile sensing for mobile devices. , 2011, , .		5
225	On the Value of Prediction in Opportunistic Radio Systems. , 2011, , .		3
226	Techno-economical viability of cognitive solutions for a factory scenario. , 2011, , .		10
227	Cognitive Radio Design and Operation: Mastering the Complexity in a Systematic Way. Signals and Communication Technology, 2011, , 37-53.	0.5	0
228	Distributed Spectrum Sensing in a Cognitive Networking Testbed. Lecture Notes in Computer Science, 2011, , 325-326.	1.3	2
229	Serving Many Mobile Users in Various Scenarios: Radios to Go Smart(er) and Cognitive. Signals and Communication Technology, 2011, , 1-10.	0.5	1
230	Anticipative Energy and QoS Management: Systematically Improving the User Experience. Signals and Communication Technology, 2011, , 87-108.	0.5	1
231	Close. Signals and Communication Technology, 2011, , 129-132.	0.5	0
232	Distributed Optimization of Local Area Networks. Signals and Communication Technology, 2011, , 109-128.	0.5	0
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