Sofie Pollin

List of Publications by Year
in descending order

267 papers	6,121 citations	186265 28 h-index	133252 59 g-index
278 all docs	278 docs citations	278 times ranked	5018 citing authors

#	Article	IF	Citations
1	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
2	LTE in the sky: trading off propagation benefits with interference costs for aerial nodes. IEEE Communications Magazine, 2016, 54, 44-50.	6.1	434
3	Performance Analysis of Slotted Carrier Sense IEEE 802.15.4 Medium Access Layer. IEEE Transactions on Wireless Communications, 2008, 7, 3359-3371.	9.2	333
4	Ultra Reliable UAV Communication Using Altitude and Cooperation Diversity. IEEE Transactions on Communications, 2018, 66, 330-344.	7.8	309
5	Chirp spread spectrum as a modulation technique for long range communication. , 2016, , .		169
6	Improving Reliability and Scalability of LoRaWANs Through Lightweight Scheduling. IEEE Internet of Things Journal, 2018, 5, 1830-1842.	8.7	169
7	Range and coexistence analysis of long range unlicensed communication. , 2016, , .		167
8	A Distributed Multichannel MAC Protocol for Multihop Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 446-459.	6.3	163
9	Cellular Connectivity for UAVs: Network Modeling, Performance Analysis, and Design Guidelines. IEEE Transactions on Wireless Communications, 2019, 18, 3366-3381.	9.2	132
10	Power and spreading factor control in low power wide area networks. , 2017, , .		129
11	Coexistence of Terrestrial and Aerial Users in Cellular Networks. , 2017, , .		124
12	UAV-to-UAV Communications in Cellular Networks. IEEE Transactions on Wireless Communications, 2020, 19, 6130-6144.	9.2	115
13	Micro aerial vehicle networks: an experimental analysis of challenges and opportunities. , 2014, 52, 141-149.		103
14	Harmful Coexistence Between 802.15.4 and 802.11: A Measurement-based Study. , 2008, , .		102
15	Electrosense: Open and Big Spectrum Data. , 2018, 56, 210-217.		100
16	Key Technologies and System Trade-offs for Detection and Localization of Amateur Drones. IEEE Communications Magazine, 2018, 56, 51-57.	6.1	89
17	Distributed cognitive coexistence of 802.15.4 with 802.11. , 2006, , .		79
18	Performance improvement with predictive channel selection for cognitive radios. , 2008, , .		71

#	Article	IF	Citations
19	Green Reconfigurable Radio Systems. IEEE Signal Processing Magazine, 2007, 24, 90-101.	5.6	63
20	Aerial Anchors Positioning for Reliable RSS-Based Outdoor Localization in Urban Environments. IEEE Wireless Communications Letters, 2018, 7, 376-379.	5.0	63
21	Optimal UAV Positioning for Terrestrial-Aerial Communication in Presence of Fading. , 2016, , .		60
22	Performance Analysis of Multichannel Medium Access Control Algorithms for Opportunistic Spectrum Access. IEEE Transactions on Vehicular Technology, 2009, 58, 3014-3031.	6.3	56
23	WLC10-5: Performance Analysis of Slotted Carrier Sense IEEE 802.15.4 Medium Access Layer. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	54
24	CSI-based Positioning in Massive MIMO systems using Convolutional Neural Networks. , 2020, , .		53
25	Joint Sum-Rate and Power Gain Analysis of an Aerial Base Station. , 2016, , .		52
26	Finite Large Antenna Arrays for Massive MIMO: Characterization and System Impact. IEEE Transactions on Antennas and Propagation, 2017, 65, 6712-6720.	5.1	50
27	Reshaping Cellular Networks for the Sky: Major Factors and Feasibility. , 2018, , .		49
28	Unsupervised Wireless Spectrum Anomaly Detection With Interpretable Features. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 637-647.	7.9	48
29	Energy-Constrained UAV Trajectory Design for Ground Node Localization. , 2018, , .		46
30	Localization in long-range ultra narrow band IoT networks using RSSI. , 2017, , .		44
31	A Multiprotocol Low-Cost Automated Testbed for BLE Mesh. IEEE Communications Magazine, 2019, 57, 76-83.	6.1	44
32	SAIFE: Unsupervised Wireless Spectrum Anomaly Detection with Interpretable Features. , 2018, , .		43
33	MEERA: cross-layer methodology for energy efficient resource allocation in wireless networks. IEEE Transactions on Wireless Communications, 2007, 6, 617-628.	9.2	38
34	Modulation Techniques for Simultaneous Wireless Information and Power Transfer With an Integrated Rectifier–Receiver. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2373-2385.	4.6	38
35	Coverage maximization for a poisson field of drone cells. , 2017, , .		37
36	Bandwidth Analysis of RF-DC Converters Under Multisine Excitation. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 791-802.	4.6	36

#	Article	IF	Citations
37	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
38	Convolutional LSTM-based Long-Term Spectrum Prediction for Dynamic Spectrum Access. , 2019, , .		34
39	A LoRaWAN module for ns-3. , 2018, , .		33
40	The value of sensing for TV White Spaces. , 2011, , .		32
41	Teaching Communication Technologies and Standards for the Industrial IoT? Use 6TiSCH!. , 2017, 55, 132-137.		32
42	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
43	Multitone FSK Modulation for SWIPT. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1665-1674.	4.6	32
44	MEERA: Cross-Layer Methodology for Energy Efficient Resource Allocation in Wireless Networks. IEEE Transactions on Wireless Communications, 2008, 7, 98-109.	9.2	31
45	Aerial Coverage Analysis of Cellular Systems at LTE and mmWave Frequencies Using 3D City Models. Sensors, 2018, 18, 4311.	3.8	31
46	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
47	Understanding Interdependency Through Complex Information Sharing. Entropy, 2016, 18, 38.	2.2	30
48	Tutorial on UAVs: A Blue Sky View onWireless Communication. Journal of Mobile Multimedia, 2018, 14, 395-468.	0.9	30
49	Combined RF-Based Drone Detection and Classification. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 111-120.	7.9	30
50	Quality of service assessment of opportunistic spectrum access: a medium access control approach. IEEE Wireless Communications, 2008, 15, 20-29.	9.0	28
51	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
52	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
53	Optimizing the Code Rate of Energy-Constrained Wireless Communications With HARQ. IEEE Transactions on Wireless Communications, 2016, 15, 191-205.	9.2	26
54	A Cell-Free Networking System With Visible Light. IEEE/ACM Transactions on Networking, 2020, 28, 461-476.	3.8	26

#	Article	IF	Citations
55	Drone classification from RF fingerprints using deep residual nets. , 2021, , .		26
56	Edge Computing Assisted Autonomous Flight for UAV: Synergies between Vision and Communications. IEEE Communications Magazine, 2021, 59, 28-33.	6.1	26
57	Accumulative Interference Modeling for Cognitive Radios with Distributed Channel Access. , 2008, , .		25
58	Cellular UAV-to-UAV Communications. , 2019, , .		25
59	Bluetooth now or low energy: Should BLE mesh become a flooding or connection oriented network?. , 2017, , .		24
60	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
61	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
62	Multi-View CNN-LSTM Architecture for Radar-Based Human Activity Recognition. IEEE Access, 2022, 10, 24509-24519.	4.2	23
63	A Revenue Enhancing Stackelberg Game for Owners in Opportunistic Spectrum Access. , 2008, , .		22
64	DenseVLC. , 2018, , .		22
65	Real-time RF self-interference cancellation for in-band full duplex. , 2015, , .		21
66	Local Estimation of Probabilities of Direct and Staggered Collisions in 802.11 WLANs. , 2009, , .		19
67	Keeping UAVs Under Control During GPS Jamming. IEEE Systems Journal, 2019, 13, 2010-2021.	4.6	19
68	Distributed Massive MIMO: A Diversity Combining Method for TDD Reciprocity Calibration. , 2017, , .		18
69	Deep-learning based Cooperative Spectrum Prediction for Cognitive Networks. , 2018, , .		18
70	Deep Reinforcement Learning for Dynamic Network Slicing in IEEE 802.11 Networks. , 2019, , .		18
71	Crowdsourced Wireless Spectrum Anomaly Detection. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 694-703.	7.9	18
72	Avoiding Collisions at Any (Low) Cost: ADS-B Like Position Broadcast for UAVs. IEEE Access, 2020, 8, 121843-121857.	4.2	18

#	Article	IF	Citations
73	In-Band Full-Duplex Radar-Communication System. IEEE Systems Journal, 2021, 15, 1086-1097.	4.6	18
74	Multipath Ghost Recognition for Indoor MIMO Radar. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	18
75	Simulation and Detection Performance Evaluation of a UAV-mounted Passive Radar. , 2018, , .		17
76	Full-Duplexing With SDR Devices: Algorithms, FPGA Implementation, and Real-Time Results. IEEE Transactions on Wireless Communications, 2021, 20, 2205-2220.	9.2	17
77	Localization in Ultra Narrow Band IoT Networks: Design Guidelines and Tradeoffs. IEEE Internet of Things Journal, 2019, 6, 9375-9385.	8.7	16
78	Exploration of User Separation Capabilities by Distributed Large Antenna Arrays. , 2016, , .		15
79	DySPAN Spectrum Challenge: Situational Awareness and Opportunistic Spectrum Access Benchmarked. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 550-562.	7.9	15
80	Cellular Coverage-Aware Path Planning for UAVs. , 2019, , .		15
81	MaMIMO CSI-Based Positioning using CNNs: Peeking inside the Black Box. , 2020, , .		15
82	Toward Fine-Grained Indoor Localization Based on Massive MIMO-OFDM System: Experiment and Analysis. IEEE Sensors Journal, 2022, 22, 5318-5328.	4.7	15
83	Learning the unknown: Improving modulation classification performance in unseen scenarios. , 2021, , .		15
84	Identifying Spectrum Usage by Unknown Systems using Experiments in Machine Learning. , 2009, , .		14
85	Digital and Analog Solution for Low-Power Multi-Band Sensing. , 2010, , .		14
86	Energy-delay analysis of full duplex wireless communication for sensor networks. , 2014, , .		14
87	Amplitude and frequency analysis of multi-sine wireless power transfer. , 2015, , .		14
88	Measurement-based analysis of the throughput-power level trade-off with modulated multisine signals in a SWIPT system. , 2017, , .		14
89	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
90	Improving Blockage Robustness in VLC Networks. , 2019, , .		14

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91	Performance analysis of in-band full duplex collision and interference detection in dense networks. , 2016, , .		13
92	Breaking Down Network Slicing: Hierarchical Orchestration of End-to-End Networks. IEEE Communications Magazine, 2020, 58, 16-22.	6.1	13
93	Cross-layer power management in wireless networks and consequences on system-level architecture. Signal Processing, 2006, 86, 1792-1803.	3.7	12
94	State of the Art in Opportunistic Spectrum Access Medium Access Control Design. , 2008, , .		12
95	An integrated reconfigurable engine for multi-purpose sensing up to 6 GHz. , 2011, , .		12
96	IEEE 5G Spectrum Sharing Challenge: A Practical Evaluation of Learning and Feedback. , 2016, 54, 210-216.		12
97	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
98	Saving energy in WSNs for acoustic surveillance applications while maintaining QoS. , 2017, , .		12
99	SWIPT with biased ASK modulation and dual-purpose hardware. , 2017, , .		12
100	Electrosense+: Crowdsourcing radio spectrum decoding using IoT receivers. Computer Networks, 2020, 174, 107231.	5.1	12
101	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
102	Analysis of Harmful Interference to and from Aerial IEEE 802.11 Systems.. , 2015, , .		11
103	Analysis of out-of-band interference from saturated power amplifiers in Massive MIMO. , 2017, , .		11
104	Uplink performance analysis of a drone cell in a random field of ground interferers. , 2018, , .		11
105	3D beamforming and handover analysis for UAV networks. , 2020, , .		11
106	Optimizing Transmission and Shutdown for Energy-Efficient Real-time Packet Scheduling in Clustered Ad Hoc Networks. Eurasip Journal on Wireless Communications and Networking, 2005, 2005, 1.	2.4	10
107	Techno-economical viability of cognitive solutions for a factory scenario. , 2011, , .		10
108	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

#	Article	IF	Citations
109	An In-Band Full-Duplex Transceiver for Simultaneous Communication and Environmental Sensing. , 2018, , .		10
110	Building a connected BLE mesh: A network inference study. , 2018, , .		10
111	Comparison of Opportunistic Spectrum Multichannel Medium Access Control Protocols. , 2008, , .		9
112	In-Air Ultrasonic 3D-Touchscreen with Gesture Recognition Using Existing Hardware for Smart Devices. , 2016, , .		9
113	Electrosense: Crowdsourcing spectrum monitoring. , 2017, , .		9
114	Convolutional Long Short-Term Memory Networks for Doppler-Radar Based Target Classification. , 2019, , .		9
115	Exploiting Blockage in VLC Networks Through User Rotations. IEEE Open Journal of the Communications Society, 2020, 1, 1084-1099.	6.9	9
116	Energy Efficiency of Multiple-Input, Multiple-Output Architectures: Future 60-GHz Applications. IEEE Vehicular Technology Magazine, 2020, 15, 65-71.	3.4	9
117	RF Energy Harvesting from GFSK-Modulated BLE Signals. , 2021, , .		9
118	Accumulative Interference Modeling for Distributed Cognitive Radio Networks. Journal of Communications, 2009, 4, .	1.6	9
119	Performance evaluation of sensing solutions for LTE and DVB-T. , 2011, , .		8
120	Reduced Complexity On-chip IQ-Imbalance Self-Calibration. , 2012, , .		8
121	Opportunities and Challenges of Digital Signal Processing in Deeply Technology-Scaled Transceivers. Journal of Signal Processing Systems, 2015, 78, 5-19.	2.1	8
122	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
123	Impact of multisine excitation design on rectifier performance. , 2016, , .		8
124	Scaling up distributed massive MIMO: Why and how. , 2017, , .		8
125	Massive MIMO for SWIPT: A Measurement-Based Study of Precoding. , 2018, , .		8
126	Transmission Strategy for Simultaneous Wireless Information and Power Transfer with a Non-Linear Rectifier Model. Electronics (Switzerland), 2020, 9, 1082.	3.1	8

#	Article	IF	Citations
127	Weave and Conquer: A Measurement-based Analysis of Dense Antenna Deployments. , 2021, , .		8
128	Aerial Vehicles Tracking Using Noncoherent Crowdsourced Wireless Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 10780-10791.	6.3	8
129	Towards Machine-Learning-Based 5G and Beyond Intelligent Networks: The MARSAL Project Vision. , 2021, , .		8
130	Internet of Things Networks: Enabling Simultaneous Wireless Information and Power Transfer. IEEE Microwave Magazine, 2022, 23, 39-54.	0.8	8
131	Versatile Spectrum Sensing on Mobile Devices?. , 2010, , .		7
132	Scalable Block-Based Parallel Lattice Reduction Algorithm for an SDR Baseband Processor. , 2011, , .		7
133	Experimental assessment of tradeoffs among spectrumsensing platforms. , 2011, , .		7
134	Analysis of power efficiency of schedulers in LTE. , 2012, , .		7
135	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
136	<30 mW rectangular-to-polar conversion processor in 802.11ad polar transmitter. , 2015, , .		7
137	Scalable HetNet interference management and the impact of limited channel state information. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	7
138	Doppler Radar with In-Band Full Duplex Radios. , 2019, , .		7
139	A Wideband Efficient Rectifier Design for SWIPT. , 2019, , .		7
140	Receiving ASK-OFDM in Low Power SWIPT Nodes without Local Oscillators. , 2019, , .		7
141	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
142	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
143	Exploring vs exploiting: Enhanced distributed cognitive coexistence of 802.15.4 with 802.11. , 2008, , .		6
144	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

#	ARTICLE	IF	CITATIONS
145	uLoRa. , 2017, , .		6
146	Massive MIMO Indoor Localization with 64-Antenna Uniform Linear Array. , 2020, , .		6
147	A CramÃ©r-Rao Lower Bound for Analyzing the Localization Performance of a Multistatic Joint Radar-Communication System. , 2021, , .		6
148	Versatile sensing for mobile devices. , 2011, , .		5
149	A Generic Framework for Optimizing Digital Intensive Harmonic Rejection Receivers. , 2012, , .		5
150	Scalable LTE interference mitigation solution for HetNet deployment. , 2014, , .		5
151	Multi-sine wireless power transfer with a realistic channel and rectifier model. , 2017, , .		5
152	Hardware and Spectrum Sharing for Distributed Massive MIMO. , 2018, , .		5
153	UAV Location Broadcasting with Wi-Fi SSID. , 2019, , .		5
154	Fixed mmWave Multi-User MIMO: Performance Analysis and Proof-of-Concept Architecture. , 2020, , .		5
155	TDMA Scheduling in Spatially Extended LiFi Networks. IEEE Open Journal of the Communications Society, 2020, 1, 1524-1538.	6.9	5
156	Enabling Virtual Radio Functions on Software Defined Radio for Future Wireless Networks. Wireless Personal Communications, 2020, 113, 1579-1595.	2.7	5
157	Bounded Block Parallel Lattice Reduction algorithm for MIMO-OFDM and its application in LTE MIMO receiver. , 2010, , .		4
158	SPARSE SIGNAL SENSING WITH NON-UNIFORM UNDERSAMPLING AND FREQUENCY EXCISION. , 2011, , .		4
159	Reduction of HARQ memory in low mobility LTE systems. , 2013, , .		4
160	Dynamic channel selection algorithms for coexistence of wireless sensor networks and wireless LANs. , 2013, , .		4
161	An adaptive channel selection scheme for reliable TSCH-based communication. , 2015, , .		4
162	Double relay communication protocol for bandwidth management in cellular systems. , 2015, , .		4

#	Article	IF	Citations
163	Using mobility for increasing the energy efficiency of multihop communications. , 2015, , .		4
164	Efficient Timing Mismatch Correction for Low-Cost Digital-Mixing Transmitter. IEEE Transactions on Signal Processing, 2015, 63, 6553-6564.	5.3	4
165	Multidisciplinary Learning through Implementation of the DVB-S2 Standard. IEEE Communications Magazine, 2017, 55, 124-130.	6.1	4
166	Hybrid rectifier-receiver node. , 2017, , .		4
167	Towards instantaneous collision and interference detection using in-band full duplex. , 2017, , .		4
168	Multi-User Frequency-Selective Hybrid MIMO Demonstrated Using 60 GHz RF Modules. , 2018, , .		4
169	Experimental Study of User Selection for Dense Indoor Massive MIMO. , 2019, , .		4
170	Simulation-based Investigation on Massive Multi-Antenna System as to Spatial Channel Hardening for Mobile Single User in a Controlled Multipath Environment. , 2020, , .		4
171	Joint In-Band Full-Duplex Communication and Radar Processing. IEEE Systems Journal, 2022, 16, 3391-3399.	4.6	4
172	BlendVLC: A Cell-free VLC Network Architecture Empowered by Beamspot Blending. , 2021, , .		4
173	Spatial Correlation in Indoor Massive MIMO: Measurements and Ray Tracing. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 903-907.	4.0	4
174	Evolutionary Optimization of Residual Neural Network Architectures for Modulation Classification. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 542-556.	7.9	4
175	Energy-Efficient Bandwidth Allocation for Multiuser Scalable Video Streaming over WLAN. Eurasip Journal on Wireless Communications and Networking, 2007, 2008, .	2.4	3
176	Beamforming for interference mitigation and its implementation on an SDR baseband processor. , 2011, , .		3
177	Energy efficient PRACH detector algorithm in SDR for LTE femtocells. , 2011, , .		3
178	On the Value of Prediction in Opportunistic Radio Systems. , 2011, , .		3
179	Spectrum sensing for cognitive wireless applications inside aircraft cabins. , 2012, , .		3
180	Exploiting frequency correlation in LTE to reduce HARQ memory. , 2012, , .		3

#	Article	IF	Citations
181	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
182	Analysis of energy harvesting for green cognitive radio networks. , 2014, , .		3
183	Energy-efficient MIMO multihop communications using the antenna selection scheme. , 2015, , .		3
184	Gaussian Process Regression for CSI and feedback estimation in LTE. , 2015, , .		3
185	TouchSpeaker, a Multi-Sensor Context-Aware Application for Mobile Devices. , 2016, , .		3
186	Two-tone FSK Modulation for SWIPT. , 2018, , .		3
187	Phase-Noise Mitigation at 60 GHz with a Novel Hybrid MIMO Architecture. , 2018, , .		3
188	Increasing Throughput of Dense-Transmitter VLC Networks through Adaptive Distributed MISO. , 2018, , .		3
189	When Autonomous Drones Meet Driverless Cars. , 2018, , .		3
190	Partial Multi-Cell MMSE Vector Combining to Reduce Computational Cost for Massive MIMO Systems. , 2019, , .		3
191	Efficient Spectrum Usage for Wireless Communications. Wireless Communications and Mobile Computing, 2019, 2019, 1-2.	1.2	3
192	MaMIMO User Grouping Strategies: How much does it matter?. , 2019, , .		3
193	A Blind Beam Tracking Scheme for Millimeter Wave Systems. , 2020, , .		3
194	Massive MIMO: A Measurement-Based Analysis of MR Power Distribution. , 2020, , .		3
195	Spectrum Sharing Strategies for UAV-to-UAV Cellular Communications. , 2020, , .		3
196	Massive MIMO goes Sub-GHz: Implementation and Experimental Exploration for LPWANs. , 2020, , .		3
197	Channel adaptive rate control for energy optimization. Journal of Zhejiang University: Science A, 2006, 7, 82-88.	2.4	2
198	Channel-Aware Rate Adaptation for Energy Optimization and Congestion Avoidance. , 2007, , .		2

#	Article	IF	Citations
199	Throughput Modeling of Large-Scale 802.11 Networks. , 2008, , .		2
200	Tone detection of non-uniformly undersampled signals with frequency excision. , 2011, , .		2
201	Adaptive filter based low complexity digital intensive harmonic rejection for SDR receiver. , 2013, , .		2
202	Exploiting transport-block constraints in LTE improves downlink performance. , 2014, , .		2
203	An energy-scalable in-band full duplex architecture. , 2015, , .		2
204	Parallelized correlator bank for a 1 GHz bandwidth phase modulated CW radar in the 79GHz band. , 2015, , .		2
205	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
206	Link adaptation in massive MIMO: Throughput-fairness trade-off. , 2017, , .		2
207	Pilot Contamination in Massive MIMO: A Measurement-Based Analysis Using 2D-MUSIC. , 2018, , .		2
208	SDN on BLE: Controlling Resource Constrained Mesh Networks. , 2019, , .		2
209	Analysis of Channel Hardening for SWIPT using Measured Massive MIMO Channels. , 2019, , .		2
210	Matrix Pencil Method: Angle of Arrival and Channel Estimation for a Massive MIMO system. , 2020, , .		2
211	Instantaneous Signal Collision Detection Using In-Band Full-Duplex: Machine Learning VS Domain-specific Knowledge. , 2020, , .		2
212	Electro-Smog Monitoring Using Low-Cost Software-Defined Radio Dongles. IEEE Access, 2021, 9, 107149-107158.	4.2	2
213	Densely Deployed Indoor Massive MIMO Experiment: From Small Cells to Spectrum Sharing to Cooperation. Sensors, 2021, 21, 4346.	3.8	2
214	Association in Dense Cell-Free mmWave Networks. , 2021, , .		2
215	Distributed Spectrum Sensing in a Cognitive Networking Testbed. Lecture Notes in Computer Science, 2011, , 325-326.	1.3	2
216	Coverage and Power Gain of Aerial Versus Terrestrial Base Stations. Lecture Notes in Electrical Engineering, 2017, , 627-636.	0.4	2

#	Article	IF	Citations
217	SkySense. , 2020, , .		2
218	Expert-Knowledge-Based Data-Driven Approach for Distributed Localization in Cell-Free Massive MIMO Networks. IEEE Access, 2022, 10, 56427-56439.	4.2	2
219	Evaluation of Beamsteering Performance in MultiuserMIMO Unmanned Aerial Base Stations Networks. IEEE Access, 2022, 10, 62565-62580.	4.2	2
220	Multi-user Motion JPEG2000 over wireless LAN: Run-time performance-energy optimization with application-aware cross-layer scheduling. Journal of Zhejiang University: Science A, 2006, 7, 151-158.	2.4	1
221	Energy-efficient transmission of H.264 Scalable Video over IEEE 802.11E. , 2009, , .		1
222	Interference robust SDR FE receiver. , 2012, , .		1
223	Efficient self-correction scheme for static non-idealities in nano-scale quadrature digital RF transmitters. , 2013, , .		1
224	Efficient duty-cycle mismatch compensation in digital transmitter. , 2014, , .		1
225	Towards approaching near-optimal MIMO detection performance ONAC-programmable baseband processor. , 2014, , .		1
226	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
227	On the performance of 802.15.4e in the real world. , 2015, , .		1
228	An Energy-Efficient Reconfigurable ASIP Supporting Multi-mode MIMO Detection. Journal of Signal Processing Systems, 2016, 85, 5-21.	2.1	1
229	Nearly instantaneous collision and interference detection using in-band full duplex. , 2017, , .		1
230	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
231	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
232	Energy-Efficient Digital Front-End Processor for 60 GHz Polar Transmitter. Journal of Signal Processing Systems, 2018, 90, 777-789.	2.1	1
233	Effect of Limiter Based PAPR Reduction for Massive MIMO Systems. , 2018, , .		1
234	Location Verification based on Radio Irregularity: Sequential Evaluation and Performance Assessment. , 2018, , .		1

#	Article	IF	Citations
235	A Multiple-Relay Communication Protocol for Achieving Fairness in Dense Networks. IEEE Access, 2018, 6, 6740-6754.	4.2	1
236	Active Power Splitter Gain and Bandwidth Optimization for a 60 GHz Hybrid MIMO System. , 2019, , .		1
237	UAV Interference to Existing Satellite Services in C-band. , 2019, , .		1
238	Spectrum Sharing in Heterogeneous Wireless Networks: An FP7 CREW Use Case. Lecture Notes in Computer Science, 2010, , 203-204.	1.3	1
239	Serving Many Mobile Users in Various Scenarios: Radios to Go Smart(er) and Cognitive. Signals and Communication Technology, 2011, , 1-10.	0.5	1
240	Anticipative Energy and QoS Management: Systematically Improving the User Experience. Signals and Communication Technology, 2011, , 87-108.	0.5	1
241	Local Uplink Processing in Cell-Free Networks: A New Approach. , 2021, , .		1
242	CNN-based Burst Signal Detection with Covariance Matrix. , 2021, , .		1
243	Energy-Efficient Bandwidth Allocation for Multi-User Video Streaming Over Wlan. , 2007, , .		0
244	Reliable power control for secondary users based on distributed measurements. , 2011, , .		0
245	Energy-throughput simulation approach for heterogeneous LTE scenarios. , 2011, , .		0
246	Exploration of Full HD Media Decoding on SDR Baseband Processor. , 2012, , .		0
247	Selective channelization on an SDR platform for LTE-a carrier aggregation. , 2012, , .		0
248	A computationally efficient soft-output Lattice Reduction-aided Selective Spanning Sphere Decoder for wireless MIMO systems. , 2013, , .		0
249	Closing the loop in unlicensed spectrum: Challenging real-time sensor networks. , 2015, , .		0
250	Energy-efficient Double Relay Communication Protocol in cellular networks. , 2016, , .		0
251	Adaptive in-band full-duplex collision detection for balancing sensing and collision costs. , 2017, , .		0
252	Air-to-Ground and Air-to-Air Data Link Communication. , 0, , 26-44.		0

#	Article	IF	Citations
253	Double Relay Communication Protocol with power control for achieving fairness in cellular systems. , 2017, , .		0
254	Impact of interference correlation on the decoding error statistics. , 2017, , .		0
255	Smile, you are in the spotlight!. , 2019, , .		0
256	Discussion on Rectifier Models for Wireless Power Transfer Excitation Design. , 2019, , .		0
257	Poster: Securing IoT Through Coverage-Bounding Wireless Communication With Visible Light. , 2020, , .		0
258	Partial Interference Suppression in Massive MIMO Systems: Taxonomy and Experimental Analysis. IEEE Access, 2021, 9, 128925-128937.	4.2	0
259	Performance analysis of in-band collision detection for dense wireless networks. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	2.4	0
260	Cross-Layer Optimization for Energy-efficient QoS Support of Multimedia Streams. , 2010, , 113-134.		0
261	Cognitive Radio Design and Operation: Mastering the Complexity in a Systematic Way. Signals and Communication Technology, 2011, , 37-53.	0.5	0
262	Close. Signals and Communication Technology, 2011, , 129-132.	0.5	0
263	Distributed Optimization of Local Area Networks. Signals and Communication Technology, 2011, , 109-128.	0.5	0
264	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
265	Spatial Channel Hardening For LiFi Networks. , 2020, , .		0
266	Nonlinear Distortion in Distributed Massive MIMO Systems: An Indoor Channel Measurement Analysis. , 2021, , .		0
267	K-Means Clustering Assisted Spectrum Utilization Prediction with Deep Learning Models. , 0, , .		0