

Fabiola Colone

List of Publications by Year in descending order

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109
papers

2,691
citations

279798

23
h-index

223800

46
g-index

109
all docs

109
docs citations

109
times ranked

891
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on Fundamental Limits of Integrated Sensing and Communication. IEEE Communications Surveys and Tutorials, 2022, 24, 994-1034.	39.4	195
2	Loaded Reciprocal Filter for OFDM-based Passive Radar Signal Processing. , 2022, , .		7
3	Reducing the computational complexity of WiFi-based passive radar processing. , 2022, , .		3
4	Passive radar concept for automotive applications. , 2022, , .		3
5	Outlier Rejection Approach for Direction of Arrival Estimation in Low SNR Conditions. , 2022, , .		1
6	Multi-carrier and multi-polarimetric model based adaptive target detector for passive radar systems. IET Radar, Sonar and Navigation, 2021, 15, 853-866.	1.8	3
7	DVB-T-Based Passive Forward Scatter Radar: Inherent Limitations and Enabling Solutions. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 1084-1104.	4.7	13
8	DVB-S based Passive Radar for Short Range Security Application. , 2021, , .		11
9	Dual Cancelled Channel STAP for Target Detection and DOA Estimation in Passive Radar. Sensors, 2021, 21, 4569.	3.8	7
10	Fusing Measurements from Wi-Fi Emission-Based and Passive Radar Sensors for Short-Range Surveillance. Remote Sensing, 2021, 13, 3556.	4.0	8
11	Passive Radar STAP Detection and DoA Estimation Under Antenna Calibration Errors. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2725-2742.	4.7	22
12	A Three-Stage Inter-Channel Calibration Approach for Passive Radar on Moving Platforms Exploiting the Minimum Variance Power Spectrum. Sensors, 2021, 21, 69.	3.8	3
13	Parasitic Surveillance Potentialities Based on a GEO-SAR Illuminator. Remote Sensing, 2021, 13, 4817.	4.0	6
14	Polarimetric Passive Radar: A Practical Approach to Parametric Adaptive Detection. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4930-4946.	4.7	6
15	Tackling the different target dynamics issues in counter drone operations using passive radar. , 2020, , .		5
16	Facing channel calibration issues affecting passive radar DPCA and STAP for GMTI. , 2020, , .		3
17	Multi-carrier Adaptive Detection in Polarimetric Passive Radars. , 2020, , .		4
18	Passive Radar DPCA Schemes With Adaptive Channel Calibration. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4014-4034.	4.7	23

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19	DVB-T based passive radar for simultaneous counter-drone operations and civil air traffic surveillance. IET Radar, Sonar and Navigation, 2020, 14, 505-515.	1.8	23
20	Detecting drones and human beings with DVB-S based COTS passive radar for short-range surveillance. , 2020, , .		20
21	Autoregressive Model Based Polarimetric Adaptive Detection Scheme Part I: Theoretical Derivation and Performance Analysis. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 3762-3778.	4.7	10
22	Autoregressive Model Based Polarimetric Adaptive Detection Scheme Part II: Performance Assessment Under Spectral Model Mismatch. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 3779-3795.	4.7	10
23	Exploitation of Long Coherent Integration Times to Improve Drone Detection in DVB-S based Passive Radar. , 2020, , .		13
24	Fusing active and passive measurements for drone localization. , 2020, , .		7
25	DVB-T based Forward Scatter Radar for Small Target Surveillance. , 2020, , .		1
26	Non-Coherent DVB-S Passive Radar Demonstrator. , 2020, , .		1
27	Exploiting long coherent integration times in DVB-T based passive radar systems. , 2019, , .		7
28	A two-stage approach for direct signal and clutter cancellation in passive radar on moving platforms. , 2019, , .		11
29	Threshold Region Performance of Multicarrier Maximum Likelihood Direction of Arrival Estimator. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 3517-3530.	4.7	12
30	Polarimetric Detection Scheme for Passive Radar based on a 2D Auto-Regressive Disturbance Model. , 2019, , .		5
31	Minimum variance power spectrum based calibration for improved clutter suppression in PCL on moving platforms. , 2019, , .		4
32	Simultaneous short and long range surveillance of drones and aircrafts with DVB-T based Passive Radar. , 2019, , .		5
33	Reciprocal-Filter-Based STAP for Passive Radar on Moving Platforms. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 967-988.	4.7	54
34	Lagrange-Polynomial-Interpolation-Based Keystone Transform for a Passive Radar. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 1151-1167.	4.7	47
35	Results of Airborne PCL Under CCI Conditions Using DVB-T Illuminators of Opportunity. , 2018, , .		8
36	2D Localization with WiFi Passive Radar and Device-Based Techniques: An Analysis of Target Measurements Accuracy. , 2018, , .		3

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37	Detection performance assessment of the FM-based AULOSÂ® Passive Radar for air surveillance applications. , 2018, , .		3
38	WiFi emission-based vs passive radar localization of human targets. , 2018, , .		9
39	Impact of Beacon Interval on the performance of WiFi-based passive radar against human targets. , 2018, , .		6
40	Target DoA estimation in passive radar using non-uniform linear arrays and multiple frequency channels. , 2018, , .		13
41	Eco-friendly dual-band AULOSÂ® passive radar for air and maritime surveillance applications. , 2018, , .		3
42	Antenna Sidelobes Level Control in Transmit Subaperturing MIMO Radar. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1321-1340.	4.7	3
43	VHF Cross-Range Profiling of Aerial Targets Via Passive ISAR: Signal Processing Schemes and Experimental Results. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 218-235.	4.7	16
44	Preliminary experimental results of polarimetric detection schemes for DVB-T based passive radar. , 2017, , .		2
45	Maritime surveillance via multi-frequency DVB-T based passive radar. , 2017, , .		4
46	Quasi-Monostatic Versus Near Forward Scatter Geometry in WiFi-Based Passive Radar Sensors. IEEE Sensors Journal, 2017, 17, 4757-4772.	4.7	13
47	Experimental results of polarimetric detection schemes for DVB-T based passive radar. IET Radar, Sonar and Navigation, 2017, 11, 883-891.	1.8	17
48	Exploitation of Deterministic Signals for Passive Single-Channel Detection. , 2017, , .		3
49	Multi-Frequency Target Detection Techniques for DVB-T Based Passive Radar Sensors. Sensors, 2016, 16, 1594.	3.8	25
50	Sliding extensive cancellation algorithm for disturbance removal in passive radar. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1309-1326.	4.7	72
51	Non-coherent adaptive detection in passive radar exploiting polarimetric and frequency diversity. IET Radar, Sonar and Navigation, 2016, 10, 15-23.	1.8	18
52	Multi-frequency polarimetric target detection in FM-based passive radar. , 2015, , .		0
53	Enhanced WiFi-based passive ISAR for indoor and outdoor surveillance. , 2015, , .		4
54	Parasitic Exploitation of Wi-Fi Signals for Indoor Radar Surveillance. IEEE Transactions on Vehicular Technology, 2015, 64, 1401-1415.	6.3	62

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55	Microphone array based classification for security monitoring in unstructured environments. AEU - International Journal of Electronics and Communications, 2015, 69, 1715-1723.	2.9	13
56	Polarimetric passive coherent location. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 1079-1097.	4.7	33
57	Cram�r lower bound with $\rho < 1$ for target localisation accuracy in multistatic passive radar. IET Radar, Sonar and Navigation, 2014, 8, 767-775.	1.8	27
58	Exploiting polarimetric diversity in FM-based PCL. , 2014, , .		5
59	Over the horizon maritime surveillance capability of DVB-T based Passive Radar. , 2014, , .		1
60	Two-dimensional location of moving targets within local areas using WiFi-based multistatic passive radar. IET Radar, Sonar and Navigation, 2014, 8, 123-131.	1.8	59
61	Direction of arrival estimation performance comparison of dual cancelled channels space-time adaptive processing techniques. IET Radar, Sonar and Navigation, 2014, 8, 17-26.	1.8	9
62	Passive radar components of ARGUS 3D. IEEE Aerospace and Electronic Systems Magazine, 2014, 29, 15-25.	1.3	15
63	WiFi-Based Passive ISAR for High-Resolution Cross-Range Profiling of Moving Targets. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3486-3501.	6.3	54
64	VHF cross-range profiling of aerial targets via passive ISAR processing. , 2014, , .		2
65	DVB-T based Passive Bistatic Radar for maritime surveillance. , 2014, , .		14
66	DVB-T Signal Ambiguity Function Control for Passive Radars. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 329-347.	4.7	62
67	ARGUS 3D: Security Enhancements through Innovative Radar Technologies. , 2013, , .		1
68	Receiver architecture for multi-standard based Passive Bistatic Radar. , 2013, , .		6
69	Multifrequency integration in FM radio-based passive bistatic radar. Part I: Target detection. IEEE Aerospace and Electronic Systems Magazine, 2013, 28, 28-39.	1.3	78
70	Multifrequency integration in FM radio-based passive bistatic radar. Part II: Direction of arrival estimation. IEEE Aerospace and Electronic Systems Magazine, 2013, 28, 40-47.	1.3	43
71	Efficient Detection and Imaging of Moving Targets in SAR Images Based on Chirp Scaling. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2403-2416.	6.3	67
72	Antenna Array for Passive Radar: Configuration Design and Adaptive Approaches to Disturbance Cancellation. International Journal of Antennas and Propagation, 2013, 2013, 1-16.	1.2	11

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73	Localization of moving targets with a passive radar system based on WiFi transmissions. , 2012, , .		2
74	Potentialities and challenges of WiFi-based passive radar. IEEE Aerospace and Electronic Systems Magazine, 2012, 27, 15-26.	1.3	41
75	Active and passive radar sensors for airport security. , 2012, , .		5
76	Civil Air Traffic surveillance with passive radar for anti-terrorism. , 2012, , .		3
77	Advances in ISAR processing for high resolution cross-range profiling with passive radar. , 2012, , .		4
78	Localization and tracking of moving targets with WiFi-based passive radar. , 2012, , .		29
79	WiFi-Based Passive Bistatic Radar: Data Processing Schemes and Experimental Results. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 1061-1079.	4.7	136
80	Direction of arrival estimation for multi-frequency FM-based Passive Bistatic Radar. , 2011, , .		12
81	Doppler frequency sidelobes level control for WiFi-based Passive Bistatic Radar. , 2011, , .		12
82	Spectral slope-based approach for mitigating bistatic space-time adaptive processing clutter dispersion. IET Radar, Sonar and Navigation, 2011, 5, 593.	1.8	9
83	Ambiguity Function Analysis of Wireless LAN Transmissions for Passive Radar. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 240-264.	4.7	75
84	Space-based passive radar enabled by the new generation of geostationary broadcast satellites. , 2010, , .		39
85	Experimental results for OFDM WiFi-based passive bistatic radar. , 2010, , .		54
86	Ambiguity Function analysis of WiMAX transmissions for passive radar. , 2010, , .		16
87	Reduced Order Jammer Cancellation Scheme Based on Double Adaptivity. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 1762-1781.	4.7	9
88	A Multistage Processing Algorithm for Disturbance Removal and Target Detection in Passive Bistatic Radar. IEEE Transactions on Aerospace and Electronic Systems, 2009, 45, 698-722.	4.7	384
89	Space-time constant modulus algorithm for multipath removal on the reference signal exploited by passive bistatic radar. IET Radar, Sonar and Navigation, 2009, 3, 253.	1.8	78
90	Adaptive beamforming for high-frequency over-the-horizon passive radar. IET Radar, Sonar and Navigation, 2009, 3, 384.	1.8	73

#	ARTICLE	IF	CITATIONS
91	PBR activity at INFOCOM: Adaptive processing techniques and experimental results. , 2008, , .		10
92	Performance analysis of a multi-frequency FM based Passive Bistatic Radar. , 2008, , .		31
93	From the expected scientific applications to the functional specifications, products and performance of the SABRINA missions. , 2008, , .		6
94	Passive radar in the high frequency band. , 2008, , .		4
95	A reduced order jammer cancellation scheme based on double adaptivity. , 2008, , .		3
96	Dual Channel Adaptive Antenna Nulling with Auxiliary Selection for Spaceborne Radar. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	4
97	Passive bistatic radar (PBR) demonstrator. , 2007, , .		8
98	A geometrically based multipath channel model for passive radar. , 2007, , .		1
99	Multipath cancellation on reference antenna for passive radar which exploits FM transmission. , 2007, , .		21
100	<title>Passive radar prototypes for multifrequency target detection</title>. Proceedings of SPIE, 2007, , .	0.8	5
101	Effect of Apodization on SAR Image Understanding. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3533-3551.	6.3	11
102	A spectral slope-based approach for mitigating bistatic STAP clutter dispersion. IEEE National Radar Conference - Proceedings, 2007, , .	0.0	5
103	A Study for a Space-Based Passive Multi-Channel SAR. , 2007, , .		0
104	Analysis and Emulation of FM Radio Signals for Passive Radar. , 2007, , .		43
105	Comparison of Clutter and Multipath Cancellation Techniques for Passive Radar. IEEE National Radar Conference - Proceedings, 2007, , .	0.0	85
106	Monitoring and surveillance potentialities obtained by splitting the antenna of the COSMO-SkyMed SAR into multiple sub-apertures. IET Radar, Sonar & Navigation, 2006, 153, 104.	2.1	38
107	A Pre-Doppler Approach for Reduced Loss Bistatic STAP. , 2006, , .		3
108	Effect of Spatially Variant Apodization on SAR Image Classification. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
109	Cancellation of Clutter and Multipath in Passive Radar using a Sequential Approach. , 0, , .		95