

# 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 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
2	A Survey on Fundamental Limits of Integrated Sensing and Communication. IEEE Communications Surveys and Tutorials, 2022, 24, 994-1034.	39.4	195
3	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
4	Cancellation of Clutter and Multipath in Passive Radar using a Sequential Approach. , 0, , .		95
5	Comparison of Clutter and Multipath Cancellation Techniques for Passive Radar. IEEE National Radar Conference - Proceedings, 2007, , .	0.0	85
6	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
7	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
8	Ambiguity Function Analysis of Wireless LAN Transmissions for Passive Radar. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 240-264.	4.7	75
9	Adaptive beamforming for high-frequency over-the-horizon passive radar. IET Radar, Sonar and Navigation, 2009, 3, 384.	1.8	73
10	Sliding extensive cancellation algorithm for disturbance removal in passive radar. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1309-1326.	4.7	72
11	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
12	DVB-T Signal Ambiguity Function Control for Passive Radars. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 329-347.	4.7	62
13	Parasitic Exploitation of Wi-Fi Signals for Indoor Radar Surveillance. IEEE Transactions on Vehicular Technology, 2015, 64, 1401-1415.	6.3	62
14	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
15	Experimental results for OFDM WiFi-based passive bistatic radar. , 2010, , .		54
16	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
17	Reciprocal-Filter-Based STAP for Passive Radar on Moving Platforms. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 967-988.	4.7	54
18	Lagrange-Polynomial-Interpolation-Based Keystone Transform for a Passive Radar. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 1151-1167.	4.7	47

#	ARTICLE	IF	CITATIONS
19	Analysis and Emulation of FM Radio Signals for Passive Radar. , 2007, , .		43
20	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
21	Potentialities and challenges of WiFi-based passive radar. IEEE Aerospace and Electronic Systems Magazine, 2012, 27, 15-26.	1.3	41
22	Space-based passive radar enabled by the new generation of geostationary broadcast satellites. , 2010, , .		39
23	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
24	Polarimetric passive coherent location. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 1079-1097.	4.7	33
25	Performance analysis of a multi-frequency FM based Passive Bistatic Radar. , 2008, , .		31
26	Localization and tracking of moving targets with WiFi-based passive radar. , 2012, , .		29
27	Cram�r�o 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
28	Multi-Frequency Target Detection Techniques for DVB-T Based Passive Radar Sensors. Sensors, 2016, 16, 1594.	3.8	25
29	Passive Radar DPCA Schemes With Adaptive Channel Calibration. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4014-4034.	4.7	23
30	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
31	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
32	Multipath cancellation on reference antenna for passive radar which exploits FM transmission. , 2007, , .		21
33	Detecting drones and human beings with DVB-S based COTS passive radar for short-range surveillance. , 2020, , .		20
34	Non-coherent adaptive detection in passive radar exploiting polarimetric and frequency diversity. IET Radar, Sonar and Navigation, 2016, 10, 15-23.	1.8	18
35	Experimental results of polarimetric detection schemes for DVB-T based passive radar. IET Radar, Sonar and Navigation, 2017, 11, 883-891.	1.8	17
36	Ambiguity Function analysis of WiMAX transmissions for passive radar. , 2010, , .		16

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37	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
38	Passive radar components of ARGUS 3D. IEEE Aerospace and Electronic Systems Magazine, 2014, 29, 15-25.	1.3	15
39	DVB-T based Passive Bistatic Radar for maritime surveillance. , 2014, , .		14
40	Microphone array based classification for security monitoring in unstructured environments. AEU - International Journal of Electronics and Communications, 2015, 69, 1715-1723.	2.9	13
41	Quasi-Monostatic Versus Near Forward Scatter Geometry in WiFi-Based Passive Radar Sensors. IEEE Sensors Journal, 2017, 17, 4757-4772.	4.7	13
42	Target DoA estimation in passive radar using non-uniform linear arrays and multiple frequency channels. , 2018, , .		13
43	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
44	Exploitation of Long Coherent Integration Times to Improve Drone Detection in DVB-S based Passive Radar. , 2020, , .		13
45	Direction of arrival estimation for multi-frequency FM-based Passive Bistatic Radar. , 2011, , .		12
46	Doppler frequency sidelobes level control for WiFi-based Passive Bistatic Radar. , 2011, , .		12
47	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
48	Effect of Apodization on SAR Image Understanding. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3533-3551.	6.3	11
49	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
50	A two-stage approach for direct signal and clutter cancellation in passive radar on moving platforms. , 2019, , .		11
51	DVB-S based Passive Radar for Short Range Security Application. , 2021, , .		11
52	PBR activity at INFOCOM: Adaptive processing techniques and experimental results. , 2008, , .		10
53	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
54	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

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55	Reduced Order Jammer Cancellation Scheme Based on Double Adaptivity. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 1762-1781.	4.7	9
56	Spectral slope-based approach for mitigating bistatic space-time adaptive processing clutter dispersion. IET Radar, Sonar and Navigation, 2011, 5, 593.	1.8	9
57	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
58	WiFi emission-based vs passive radar localization of human targets. , 2018, , .		9
59	Passive bistatic radar (PBR) demonstrator. , 2007, , .		8
60	Results of Airborne PCL Under CCI Conditions Using DVB-T Illuminators of Opportunity. , 2018, , .		8
61	Fusing Measurements from Wi-Fi Emission-Based and Passive Radar Sensors for Short-Range Surveillance. Remote Sensing, 2021, 13, 3556.	4.0	8
62	Exploiting long coherent integration times in DVB-T based passive radar systems. , 2019, , .		7
63	Dual Cancelled Channel STAP for Target Detection and DOA Estimation in Passive Radar. Sensors, 2021, 21, 4569.	3.8	7
64	Fusing active and passive measurements for drone localization. , 2020, , .		7
65	Loaded Reciprocal Filter for OFDM-based Passive Radar Signal Processing. , 2022, , .		7
66	From the expected scientific applications to the functional specifications, products and performance of the SABRINA missions. , 2008, , .		6
67	Receiver architecture for multi-standard based Passive Bistatic Radar. , 2013, , .		6
68	Impact of Beacon Interval on the performance of WiFi-based passive radar against human targets. , 2018, , .		6
69	Polarimetric Passive Radar: A Practical Approach to Parametric Adaptive Detection. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4930-4946.	4.7	6
70	Parasitic Surveillance Potentialities Based on a GEO-SAR Illuminator. Remote Sensing, 2021, 13, 4817.	4.0	6
71	<title>Passive radar prototypes for multifrequency target detection</title>. Proceedings of SPIE, 2007, , .	0.8	5
72	A spectral slope-based approach for mitigating bistatic STAP clutter dispersion. IEEE National Radar Conference - Proceedings, 2007, , .	0.0	5

#	ARTICLE	IF	CITATIONS
73	Active and passive radar sensors for airport security. , 2012, , .		5
74	Exploiting polarimetric diversity in FM-based PCL. , 2014, , .		5
75	Polarimetric Detection Scheme for Passive Radar based on a 2D Auto-Regressive Disturbance Model. , 2019, , .		5
76	Simultaneous short and long range surveillance of drones and aircrafts with DVB-T based Passive Radar. , 2019, , .		5
77	Tackling the different target dynamics issues in counter drone operations using passive radar. , 2020, , .		5
78	Passive radar in the high frequency band. , 2008, , .		4
79	Dual Channel Adaptive Antenna Nulling with Auxiliary Selection for Spaceborne Radar. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	4
80	Advances in ISAR processing for high resolution cross-range profiling with passive radar. , 2012, , .		4
81	Enhanced WiFi-based passive ISAR for indoor and outdoor surveillance. , 2015, , .		4
82	Maritime surveillance via multi-frequency DVB-T based passive radar. , 2017, , .		4
83	Minimum variance power spectrum based calibration for improved clutter suppression in PCL on moving platforms. , 2019, , .		4
84	Multi-carrier Adaptive Detection in Polarimetric Passive Radars. , 2020, , .		4
85	A Pre-Doppler Approach for Reduced Loss Bistatic STAP. , 2006, , .		3
86	A reduced order jammer cancellation scheme based on double adaptivity. , 2008, , .		3
87	Civil Air Traffic surveillance with passive radar for anti-terrorism. , 2012, , .		3
88	Antenna Sidelobes Level Control in Transmit Subaperturing MIMO Radar. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1321-1340.	4.7	3
89	Exploitation of Deterministic Signals for Passive Single-Channel Detection. , 2017, , .		3
90	2D Localization with WiFi Passive Radar and Device-Based Techniques: An Analysis of Target Measurements Accuracy. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
91	Detection performance assessment of the FM-based AULOSÂ® Passive Radar for air surveillance applications. , 2018, , .		3
92	Eco-friendly dual-band AULOSÂ® passive radar for air and maritime surveillance applications. , 2018, , .		3
93	Facing channel calibration issues affecting passive radar DPCA and STAP for GMTI. , 2020, , .		3
94	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
95	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
96	Reducing the computational complexity of WiFi-based passive radar processing. , 2022, , .		3
97	Passive radar concept for automotive applications. , 2022, , .		3
98	Localization of moving targets with a passive radar system based on WiFi transmissions. , 2012, , .		2
99	VHF cross-range profiling of aerial targets via passive ISAR processing. , 2014, , .		2
100	Preliminary experimental results of polarimetric detection schemes for DVB-T based passive radar. , 2017, , .		2
101	A geometrically based multipath channel model for passive radar. , 2007, , .		1
102	ARGUS 3D: Security Enhancements through Innovative Radar Technologies. , 2013, , .		1
103	Over the horizon maritime surveillance capability of DVB-T based Passive Radar. , 2014, , .		1
104	DVB-T based Forward Scatter Radar for Small Target Surveillance. , 2020, , .		1
105	Non-Coherent DVB-S Passive Radar Demonstrator. , 2020, , .		1
106	Outlier Rejection Approach for Direction of Arrival Estimation in Low SNR Conditions. , 2022, , .		1
107	Effect of Spatially Variant Apodization on SAR Image Classification. , 2006, , .		0
108	A Study for a Space-Based Passive Multi-Channel SAR. , 2007, , .		0

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109	Multi-frequency polarimetric target detection in FM-based passive radar. , 2015, , .		0