

Jose-Maria Munoz-Ferreras

List of Publications by Year in descending order

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115
papers

2,190
citations

279778

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117
docs citations

117
times ranked

1464
citing authors

#	ARTICLE	IF	CITATIONS
1	Balanced quasi-elliptic-type dual-passband filters using planar transversal coupled-line sections and their digital modeling. International Journal of Microwave and Wireless Technologies, 2023, 15, 365-374.	1.9	2
2	Adaptive Multi-Band Negative-Group-Delay RF Circuits With Low Reflection. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 2196-2209.	5.4	14
3	Optimisation-based design of transversal signal-interference microwave bandpass and lowpass filters with extended stopband. IET Microwaves, Antennas and Propagation, 2021, 15, 653-660.	1.4	6
4	Coupling-Routing-Diagram Model of Non-Reciprocal Bandpass Filter With Single-Band-Forward and Dual-Band-Backward Behavior. , 2021, , .		0
5	Two-Port-Reflectionless Negative-Group-Delay Circuit on Multilayered Lossy Bandstop Filter. , 2021, , .		0
6	Lossy Signal-Interference Filters and Applications. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 516-529.	4.6	17
7	Multilayered Reflectionless Wideband Bandpass Filters With Shunt/In-Series Resistively Terminated Microstrip Lines. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 877-893.	4.6	27
8	Input-Reflectionless Low-Pass Filter on Multilayered Diplexer-Based Topology. IEEE Microwave and Wireless Components Letters, 2020, 30, 945-948.	3.2	12
9	Avoiding RF Isolators: Reflectionless Microwave Bandpass Filtering Components for Advanced RF Front Ends. IEEE Microwave Magazine, 2020, 21, 68-86.	0.8	30
10	Low-Reflection Signal-Interference Single- and Multipassband Filters With Shunted Lossy Stubs. IEEE Microwave and Wireless Components Letters, 2020, 30, 355-358.	3.2	18
11	Beam-steering radars at low cost. Nature Electronics, 2020, 3, 79-80.	26.0	0
12	Trade-off on Detection Range and Channel Usage for Moving Target Tracking using FSK Radar. , 2020, , .		7
13	Balanced Quasi-Elliptic-Type Combine Diplexer With Multiextracted-Pole Junction/Output Sections. IEEE Microwave and Wireless Components Letters, 2020, 30, 569-572.	3.2	8
14	FMCW-Radar-Based Vital-Sign Monitoring of Multiple Patients. , 2019, , .		12
15	High-Order Input-Reflectionless Bandpass/Bandstop Filters and Multiplexers. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3683-3695.	4.6	52
16	Selectivity-Enhancement Technique for Stepped-Impedance-Resonator Dual-Passband Filters. IEEE Microwave and Wireless Components Letters, 2019, 29, 453-455.	3.2	45
17	Two Topologies of Balanced Dual-Band Bandpass Filters with Extended Common-Mode-Suppression Bandwidth. , 2019, , .		0
18	Wireless Sensors for Biomedical Applications [From the Guest Editors' Desk]. IEEE Microwave Magazine, 2019, 20, 16-17.	0.8	0

#	ARTICLE	IF	CITATIONS
19	Multi-Band Filters Based on Coupled-Multi-Line Cells. , 2019, , .		0
20	Reflectionless Wideband Bandpass Filter Designed With Multilayered Microstrip Vertical Transition. , 2019, , .		5
21	Single/Multi-Band Coupled-Multi-Line Filtering Section and Its Application to RF Diplexers, Bandpass/Bandstop Filters, and Filtering Couplers. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3959-3972.	4.6	53
22	A Spectrum-Efficient FSK Radar Solution for Stationary Human Subject Localization Based on Vital Sign Signals. , 2019, , .		6
23	Input-Reflectionless Negative-Group-Delay Bandstop-Filter Networks Based on Lossy Complementary Duplexers. , 2019, , .		6
24	Digital Modeling of Microwave Filters With Coupled-Line Sections. , 2019, , .		1
25	High-Order Planar Bandpass Filters With Electronically-Reconfigurable Passband Width and Flatness Based on Adaptive Multi-Resonator Cascades. IEEE Access, 2019, 7, 11010-11019.	4.2	19
26	Coherent Deramping-Based Multi-FMCW Radar Architecture. , 2019, , .		1
27	Contiguous-Channel Dual-Band Balanced Diplexer. IEEE Microwave and Wireless Components Letters, 2019, 29, 318-320.	3.2	15
28	Symmetrical Quasi-Absorptive RF Bandpass Filters. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1472-1482.	4.6	46
29	Input-Reflectionless Out-of-Phase 3-dB Bandpass Filtering Couplers. , 2019, , .		2
30	A Spectrum-Efficient FSK Radar Technology for Range Tracking of Both Moving and Stationary Human Subjects. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 5406-5416.	4.6	27
31	3-dB Filtering Power Dividers With Quasi-Reflectionless Behavior at All Their Ports. , 2019, , .		1
32	Lossy flatâ€passband signalâ€interference microstrip filter. Electronics Letters, 2019, 55, 206-208.	1.0	5
33	Multilayered Wideband Balun Bandpass Filters Designed with Input-Reflectionless Response. , 2019, , .		6
34	Quasi-Reflectionless Signal-Interference Wide-Band Bandstop Filters. , 2019, , .		1
35	Dual-Behavior Resonator-Based Fully Reconfigurable Input Reflectionless Bandpass Filters. IEEE Microwave and Wireless Components Letters, 2019, 29, 35-37.	3.2	40
36	RF Reflectionless Filtering Power Dividers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 933-937.	3.0	43

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37	Overview of Recent Development on Wireless Sensing Circuits and Systems for Healthcare and Biomedical Applications. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 165-177.	3.6	42
38	Behavioural digital modelling of lossy frequency-periodic microwave passive filters. IET Microwaves, Antennas and Propagation, 2018, 12, 265-269.	1.4	0
39	Symmetrical Quasi-Reflectionless BSFs. IEEE Microwave and Wireless Components Letters, 2018, 28, 302-304.	3.2	33
40	An improved indoor localization solution using a hybrid UWB-Doppler system with Kalman filter. , 2018, , .		8
41	Tunable Input-Quasi-Reflectionless Multiplexers. , 2018, , .		3
42	Linear Time-Invariant Behavioral Digital Models of Frequency-Periodic RF/Microwave Filters. , 2018, , .		1
43	Electronically-Controllable Bandpass Planar Filter with Ultra-Large Bandwidth-Tuning Ratio and Enhanced in-Band Amplitude Flatness. , 2018, , .		0
44	From Doppler to FMCW Radars for Non-Contact Vital-Sign Monitoring. , 2018, , .		13
45	Split-Type Input-Reflectionless Multiband Filters. IEEE Microwave and Wireless Components Letters, 2018, 28, 981-983.	3.2	44
46	Balanced Symmetrical Quasi-Reflectionless Single-and Dual-Band Bandpass Planar Filters. IEEE Microwave and Wireless Components Letters, 2018, 28, 798-800.	3.2	75
47	Quasi-Elliptic-Type Multiplexer Design Without Cross Coupling. IEEE Microwave and Wireless Components Letters, 2018, 28, 801-803.	3.2	9
48	Multi-band reflectionless filtering impedance transformers. , 2018, , .		1
49	Accuracy improvement in range measurements of short-range FSK radars. , 2018, , .		0
50	Wideband signal-interference duplexer with contiguous single/dual-band channels and its application to quasi-absorptive bandpass filters. Electronics Letters, 2018, 54, 578-580.	1.0	18
51	A Review on Recent Progress of Portable Short-Range Noncontact Microwave Radar Systems. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1692-1706.	4.6	265
52	A substrate-integrated-waveguide dual-band bandpass filter based on signal-interference principles. , 2017, , .		2
53	Doppler-radar-based short-range acquisitions of time-frequency signatures from an industrial-type wind turbine. , 2017, , .		3
54	A frequency-multiplexed Doppler-plus-FMCW hybrid radar architecture: Theory and simulations. , 2017, , .		1

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55	A Portable FMCW Interferometry Radar With Programmable Low-IF Architecture for Localization, ISAR Imaging, and Vital Sign Tracking. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1334-1344.	4.6	173
56	Review on Advanced Short-Range Multimode Continuous-Wave Radar Architectures for Healthcare Applications. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2017, 1, 14-25.	3.4	25
57	An FMCW radar sensor for human gesture recognition in the presence of multiple targets. , 2017, , .		38
58	Fully-reconfigurable bandpass filter with static couplings and intrinsic-switching capabilities. , 2017, , .		9
59	Dual-passband filters and extended-stopband wide-band bandpass filters based on generalized stub-loaded planar circuits. , 2017, , .		6
60	Lumped-element RF analog multi-band bandpass filter concept for software-defined-radio architectures. , 2017, , .		2
61	Human-aware localization using linear-frequency-modulated continuous-wave radars. , 2017, , 191-242.		3
62	Short-Range Doppler-Radar Signatures from Industrial Wind Turbines: Theory, Simulations, and Measurements. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2108-2119.	4.7	36
63	Substrate-integrated-waveguide signal-interference bandpass filters. , 2016, , .		3
64	A step forward towards radar sensor networks for structural health monitoring of wind turbines. , 2016, , .		8
65	Portable coherent frequency-modulated continuous-wave radar for indoor human tracking. , 2016, , .		7
66	Random body movement mitigation for FMCW-radar-based vital-sign monitoring. , 2016, , .		21
67	FMCW radar fall detection based on ISAR processing utilizing the properties of RCS, range, and Doppler. , 2016, , .		33
68	Multi-band signal-interference planar bandpass filters based on stub-loaded transversal filtering sections. , 2016, , .		1
69	Effects and mitigation of interference tones on coherent FMCW short-range radars. , 2016, , .		0
70	Effects and mitigation of interference tones on coherent FMCW short-range radars. , 2016, , .		0
71	Effects and mitigation of interference tones on coherent FMCW short-range radars. , 2016, , .		2
72	24-GHz biomedical radar on flexible substrate for ISAR imaging. , 2016, , .		15

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73	Frequency-periodic microwave passive circuits and their digital matching. IET Microwaves, Antennas and Propagation, 2016, 10, 1547-1552.	1.4	4
74	Digital representation of multi-functional microwave passive circuits. , 2016, , .		1
75	Exploiting radar waveforms for wireless power transmission. , 2015, , .		1
76	Signal-interference RF wide-band bandpass filters using half-mode substrate-integrated-waveguide (HM SIW) directional couplers. , 2015, , .		0
77	Structural health monitoring of wind turbines using a low-cost portable k-band radar: An ab-initio field investigation. , 2015, , .		12
78	Isolate the Clutter: Pure and Hybrid Linear-Frequency-Modulated Continuous-Wave (LFMCW) Radars for Indoor Applications. IEEE Microwave Magazine, 2015, 16, 40-54.	0.8	22
79	Mitigation of stationary clutter in vital-sign monitoring linear-frequency-modulated continuous-wave radars. IET Radar, Sonar and Navigation, 2015, 9, 138-144.	1.8	18
80	Clutter interference reduction in coherent FMCW radar for weak physiological signal detection. , 2014, , .		8
81	Software-configured smart radar sensor for civil and biomedical applications. , 2014, , .		0
82	A Digital Interpretation of Frequency-Periodic Signal-Interference Microwave Passive Filters. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2633-2640.	4.6	19
83	Dual-band lowpass/bandpass periodic-type microstrip filter with Long-Term-Evolution (LTE) service mitigation. , 2014, , .		2
84	Linear-frequency-modulated continuous-wave radar for vital-sign monitoring. , 2014, , .		16
85	Beyond the Stop-and-Go Assumption in Pulse-Doppler Radar Sensors. IEEE Sensors Journal, 2014, 14, 3046-3051.	4.7	12
86	Application of Linear-Frequency-Modulated Continuous-Wave (LFMCW) Radars for Tracking of Vital Signs. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1387-1399.	4.6	229
87	Filling the Spectral Holes: Novel/Future Wireless Communications and Radar Receiver Architectures. IEEE Microwave Magazine, 2014, 15, 45-56.	0.8	23
88	Multi-band pre-selectors for software-defined radio receivers. , 2013, , .		1
89	A Deramping-Based Multiband Radar Sensor Concept With Enhanced ISAR Capabilities. IEEE Sensors Journal, 2013, 13, 3361-3368.	4.7	15
90	Time-Reversal-Based Multipath Mitigation Technique for ISAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3119-3138.	6.3	7

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91	Multi-Band Radar Receiver Design Approach for Minimum Bandpass Sampling. IEEE Transactions on Aerospace and Electronic Systems, 2013, 49, 774-785.	4.7	4
92	Multipath mitigation techniques based on time reversal concept and superresolution algorithms for inverse synthetic aperture radar imaging. IET Radar, Sonar and Navigation, 2013, 7, 413-421.	1.8	3
93	Acquisition of multiband signals with minimum sub-Nyquist sampling. , 2012, , .		3
94	Microwave filtering power-distribution planar networks. , 2011, , .		3
95	New technique for static target detection in dense-multipath urban environments. , 2011, , .		1
96	Signal-Interference Stepped-Impedance-Line Microstrip Filters and Application to Duplexers. IEEE Microwave and Wireless Components Letters, 2011, 21, 421-423.	3.2	51
97	Microwave transversal six-band bandpass planar filter for multi-standard wireless applications. , 2011, , .		33
98	Wind turbine clutter observations and theoretical validation for meteorological radar applications. IET Radar, Sonar and Navigation, 2011, 5, 111.	1.8	36
99	Super-resolution techniques for wind turbine clutter spectrum enhancement in meteorological radars. IET Radar, Sonar and Navigation, 2011, 5, 924.	1.8	9
100	RF Front-End Concept and Implementation for Direct Sampling of Multiband Signals. IEEE Transactions on Circuits and Systems II: Express Briefs, 2011, 58, 129-133.	3.0	21
101	Superresolution versus Motion Compensation-Based Techniques for Radar Imaging Defense Applications. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	2
102	Subinteger Range-Bin Alignment Method for ISAR Imaging of Noncooperative Targets. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	12
103	Multipath reflectivity estimation in urban environments for Synthetic Aperture Radar images. , 2010, , .		4
104	On the Doppler Spreading Effect for the Range-Instantaneous-Doppler Technique in Inverse Synthetic Aperture Radar Imagery. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 180-184.	3.1	19
105	Super-resolution techniques in meteorological radars: The example of wind turbines. , 2010, , .		3
106	A Type of Planar Array-Antenna Feeding Network With Single/Multiband Filtering Capability. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 1271-1274.	4.0	9
107	Pitch estimation for non-cooperative maritime targets in ISAR scenarios. IET Radar, Sonar and Navigation, 2009, 3, 521.	1.8	7
108	Traffic Surveillance System Based on a High-Resolution Radar. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1624-1633.	6.3	45

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109	Monitoring road traffic with a high resolution LFM CW radar. , 2008, , .		7
110	Uniform rotational motion compensation for inverse synthetic aperture radar with non-cooperative targets. IET Radar, Sonar and Navigation, 2008, 2, 25-34.	1.8	66
111	Non-uniform rotation rate estimation for ISAR in case of slant range migration induced by angular motion. IET Radar, Sonar and Navigation, 2007, 1, 251.	1.8	23
112	Focused ISAR Images of Maritime Targets using a High Resolution LFM CW Millimeter-wave Radar. , 0, , .		4
113	Motion Compensation for ISAR Based on the Shift-and-Convolution Algorithm. , 0, , .		7
114	Filtering stages for white space cognitive/software-defined radio receivers. , 0, , 143-166.		1
115	Multi-band planar diplexers with sub-sets of frequency-contiguous transmission bands. International Journal of Microwave and Wireless Technologies, 0, , 1-11.	1.9	0