Changzhi Li

List of Publications by Year
in descending order

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358 papers	8,693 citations	50276 46 h-index	64796 79 g-index
361 all docs	361 docs citations	361 times ranked	4382 citing authors

#	Article	IF	Citations
1	RF and camera-based vital signs monitoring applications. , 2022, , 303-326.		0
2	Millimeter-Wave Radar Cane: A Blind People Aid With Moving Human Recognition Capabilities. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2022, 6, 204-211.	3.4	28
3	A High Dynamic Range Vibration Radar Sensor With Automatic DC Voltage Extraction. IEEE Sensors Journal, 2022, 22, 9945-9955.	4.7	1
4	A Portable 5.8 GHz Dual Circularly Polarized Interferometric Radar Sensor for Short-Range Motion Sensing. IEEE Transactions on Antennas and Propagation, 2022, 70, 5849-5859.	5.1	10
5	Noncontact Multi-Target Respiration Sensing Using SIMO Radar With UBSS Method. IEEE Microwave and Wireless Components Letters, 2022, 32, 210-213.	3.2	8
6	Wireless Power Transfer Sensing Approach for Milk Adulteration Detection Using Supervised Learning. , 2022, , .		0
7	RF-Tag-Referenced Structural Displacement Measurements With Multiple Moving Interferers. , 2022, , .		0
8	A K-Band Broadband Binary Phase Shifter. , 2022, , .		4
9	SMCW Radar for Low IF Sensing Applications. , 2022, , .		0
10	Separation of Simultaneous Multi-Person Noncontact Physical Activity Signals Using Frequency-Modulated Continuous-Wave Radars. , 2022, , .		3
11	A MODWT-Based Algorithm for the Identification and Removal of Jumps/Short-Term Distortions in Displacement Measurements Used for Structural Health Monitoring. IoT, 2022, 3, 60-72.	3.8	3
12	Heating, Ventilation, and Air Conditioning Control by Range-Doppler and Micro-Doppler Radar Sensor. , 2022, , .		10
13	Compact Continuous Wave Radar for Water Level Monitoring. Journal of Atmospheric and Oceanic Technology, 2022, 39, 1245-1257.	1.3	1
14	Application of Variational Mode Decomposition to FMCW Radar Interference Mitigation. Lecture Notes in Electrical Engineering, 2022, , 425-432.	0.4	1
15	The Analytic Doherty-Outphasing Power Amplifiers Continuum Theory : (Invited Paper). , 2022, , .		1
16	Dual Null Detection Points Removal and Time-Domain Sensitivity Analysis of a Self-Injection-Locked Radar for Small-Amplitude Motion Sensing. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 4263-4272.	4.6	4
17	Reliable Digital Forensics in the Air. , 2022, 6, 1-25.		2
18	Accurate contactless sleep apnea detection framework with signal processing and machine learning methods. Methods, 2022, 205, 167-178.	3.8	10

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19	Implementation of a 2-D Reconfigurable Fresnel-Zone-Plate Antenna. IEEE Transactions on Antennas and Propagation, 2021, 69, 520-525.	5.1	10
20	Active Shooter Detection in Multiple-Person Scenario Using RF-Based Machine Vision. IEEE Sensors Journal, 2021, 21, 3609-3622.	4.7	4
21	A WPT/NFC-Based Sensing Approach for Beverage Freshness Detection Using Supervised Machine Learning. IEEE Sensors Journal, 2021, 21, 733-742.	4.7	11
22	Intermodulation Radar with Dynamic Fundamental Tone Cancellation for Linearity Improvement. , 2021, , .		1
23	Human Presence Sensing and Gesture Recognition for Smart Home Applications With Moving and Stationary Clutter Suppression Using a 60-GHz Digital Beamforming FMCW Radar. IEEE Access, 2021, 9, 72857-72866.	4.2	27
24	Hand Gesture Recognition Using FMCW Radar in Multi-Person Scenario. , 2021, , .		7
25	Wind-Induced Displacement Analysis for a Traffic Light Structure Based on a Low-Cost Doppler Radar Array. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	10
26	Non-Contact Dual-Modality Emotion Recognition System by CW Radar and RGB Camera. IEEE Sensors Journal, 2021, 21, 23198-23212.	4.7	11
27	Vital Sign Detection and Radar Self-Motion Cancellation Through Clutter Identification. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1932-1942.	4.6	53
28	24-GHz Impedance-Modulated BPSK Tags for Range Tracking and Vital Signs Sensing of Multiple Targets Using an FSK Radar. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1817-1828.	4.6	21
29	A Review on Low-Cost Microwave Doppler Radar Systems for Structural Health Monitoring. Sensors, 2021, 21, 2612.	3.8	10
30	Corrections to â€œAnalytical Approach to Microwave Orientations Based on a Strongly Coupled Arrayâ€• [Sep 20 3898-3907]. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2408-2408.	4.6	0
31	Air Bubble Detection Based on Portable mm- Wave Doppler Radars. , 2021, , .		2
32	Radar-Based Monitoring of the Worker Activities by Exploiting Range-Doppler and Micro-Doppler Signatures. , 2021, , .		7
33	Embedded heating, ventilation, and air-conditioning control systems: From traditional technologies toward radar advanced sensing. Review of Scientific Instruments, 2021, 92, 061501.	1.3	18
34	Utilizing Passive Intermodulation Response of Frequency-Modulated Continuous-Wave Signal for Target Identification and Mapping. IEEE Sensors Journal, 2021, 21, 17817-17826.	4.7	14
35	Spoofing Attacks to Radar Motion Sensors with Portable RF Devices. , 2021, , .		2
36	Sensing of Life Activities at the Human-Microwave Frontier. IEEE Journal of Microwaves, 2021, 1, 66-78.	6.5	31

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37	Head Motion and Eyes Blinking Detection: a mm-Wave Radar for Assisting People with Neurodegenerative Disorders. , 2021, , .		20
38	A Frequency-Domain Spoofing Attack on FMCW Radars and Its Mitigation Technique Based on a Hybrid-Chirp Waveform. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 5086-5098.	4.6	18
39	CW and Modulated Input Second Harmonic Injection for Efficiency Enhancement in Broadband Power Amplifiers. Electronics (Switzerland), 2021, 10, 2507.	3.1	0
40	Accurate Measurement of Human Vital Signs With Linear FMCW Radars Under Proximity Stationary Clutters. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 1393-1404.	4.0	34
41	A Review: Recent Progress in the Design and Development of Nonlinear Radars. Remote Sensing, 2021, 13, 4982.	4.0	12
42	Doppler Cardiogram: A Remote Detection of Human Heart Activities. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1132-1141.	4.6	54
43	Smaller and With More Bars: A Relay Transceiver for IoT/5G Applications. IEEE Microwave Magazine, 2020, 21, 96-100.	0.8	1
44	A Reconfigurable Planar Fresnel Lens for Millimeter-Wave 5G Frontends. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4579-4588.	4.6	18
45	Empowering Blind People Mobility: A Millimeter-Wave Radar Cane. , 2020, , .		19
46	3-D Motion Imaging in a Multipath Coordinate Space Based on a TDM-MIMO Radar Sensor. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4642-4651.	4.6	5
47	Remote Measurement of Dielectric Constants for Samples With Arbitrary Cross Sections. IEEE Microwave and Wireless Components Letters, 2020, 30, 1005-1008.	3.2	2
48	Body movement cancellation using adaptive filtering technology for radar-based vital sign monitoring. , 2020, , .		5
49	Comprehensive Vital Sign Detection using a Wrist Wearable Nonlinear Target and a 5.8-GHz ISM Band Intermodulation Radar. , 2020, , .		4
50	Adaptive Displacement Calibration Strategies for Field Structural Health Monitoring Based on Doppler Radars. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7813-7824.	4.7	16
51	Farâ€field cancellation of crossâ€polarisation based on mirroring subarrays of densely arranged PDM apertures. IET Microwaves, Antennas and Propagation, 2020, 14, 314-319.	1.4	1
52	A Novel Radar Imaging Method Based on Random Illuminations Using FMCW Radar. , 2020, , .		0
53	Multi-target Vital Signs Detection Using SIMO Continuous-wave Radar with DBF Technique. , 2020, , .		7
54	Analytical Approach to Microwave Orientations Based on a Strongly Coupled Array. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3898-3907.	4.6	1

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55	Induction Logging Through Casing by Detecting Lateral Waves: A Numerical Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2937-2946.	6.3	3
56	Implementation of a Miniaturized Cylindrical Anechoic Chamber Based on an Angle-dependent PML Surface. , 2020, , .		0
57	Algorithms and Wideband Architecture for PIM localizations. , 2020, , .		2
58	Structural Health Monitoring of a Traffic Signal Support Structure Based on 5.8-GHz Doppler Radar with Median Filter and Revised Circle Fitting. , 2020, , .		3
59	A Low-Power and Low-Cost Monostatic Radar Based on a Novel 2-Port Transceiver Chain. , 2020, , .		2
60	Trade-off on Detection Range and Channel Usage for Moving Target Tracking using FSK Radar. , 2020, , .		7
61	Cardiogram Detection with a Millimeter-wave Radar Sensor. , 2020, , .		5
62	Wireless Orientation in the Presence of Mutual Couplings. , 2020, , .		0
63	Remote Blind Motion Separation Using a Single-Tone SIMO Doppler Radar Sensor. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 462-472.	6.3	13
64	Portable Radar Circuits and Systems for Wireless Sensing and Localization. , 2019, , .		0
65	FMCW-Radar-Based Vital-Sign Monitoring of Multiple Patients. , 2019, , .		12
66	RF Compressed Sensing Based Radar for 2-D Localization and Mapping. , 2019, , .		2
67	A Portable Doppler/FSK/FMCW Multi-mode Radar With Analog DC Offset Cancellation for Biomedical Applications. , 2019, , .		0
68	Fall detection with multi-domain features by a portable FMCW radar. , 2019, , .		15
69	A Low Power 5.8-GHz ISM-Band Intermodulation Radar System for Target Motion Discrimination. IEEE Sensors Journal, 2019, 19, 9206-9214.	4.7	33
70	The Development of Vital-SAR-Imaging with an FMCW Radar System. , 2019, , .		1
71	Accelerated Design Methodology for Dual-Input Doherty Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3983-3995.	4.6	14
72	Miniaturized Anechoic Chamber Constructed Based on an Inhomogeneous PML Model. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3595-3602.	4.6	11

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73	Microwave Sensing and Sleep: Noncontact Sleep-Monitoring Technology With Microwave Biomedical Radar. IEEE Microwave Magazine, 2019, 20, 18-29.	0.8	57
74	A Single Layer Planar K-Band Monopulse Radar Receiver. , 2019, , .		3
75	The IEEE MTT-S 2019 International Microwave Biomedical Conference [Conference Report]. IEEE Microwave Magazine, 2019, 20, 88-90.	0.8	0
76	Inattentive Driving Behavior Detection Based on Portable FMCW Radar. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4031-4041.	4.6	33
77	A Spectrum-Efficient FSK Radar Solution for Stationary Human Subject Localization Based on Vital Sign Signals. , 2019, , .		6
78	A Digital I/Q Correction Technique for a 125-GHz Interferometric Radar with Sub-Micrometer Sensitivity. , 2019, , .		6
79	Phase-demodulation based Human Identification for Vital-SAR-Imaging in Pure FMCW Mode. , 2019, , .		1
80	Phase-Based Human Target 2-D Identification With a Mobile FMCW Radar Platform. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 5348-5359.	4.6	26
81	Vital-sign monitoring on the go. Nature Electronics, 2019, 2, 219-220.	26.0	4
82	FMCW Radar Driver Head Motion Monitoring Based on Doppler Spectrogram and Range-Doppler Evolution. , 2019, , .		15
83	Digital predistortion technique for low resource consumption using carrier aggregated 4G/5G signals. IET Microwaves, Antennas and Propagation, 2019, 13, 197-207.	1.4	7
84	Continuous Human Motion Recognition With a Dynamic Range-Doppler Trajectory Method Based on FMCW Radar. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6821-6831.	6.3	110
85	Novel Outphasing Power Amplifiers Designed With an Analytic Generalized Dohertyâ€“Chireix Continuum Theory. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 2935-2948.	5.4	35
86	Blind Separation of Doppler Human Gesture Signals Based on Continuous-Wave Radar Sensors. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2659-2661.	4.7	19
87	Portable Microwave Radar Systems for Short-Range Localization and Life Tracking: A Review. Sensors, 2019, 19, 1136.	3.8	48
88	Self-Powered 24-GHz Doppler Radar for Building Entrance Monitoring Using Cross Correlation and Envelope Detection. , 2019, , .		5
89	Wide-Angle Beam Steering Based on an Active Conformal Metasurface Lens. IEEE Access, 2019, 7, 185264-185272.	4.2	31
90	Portable Doppler/FSK/FMCW Radar Systems for Life Activity Sensing and Human Localization. , 2019, , .		7

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91	Indoor nonâ€rhythmic human motion classification using a frequencyâ€modulated continuousâ€wave radar. Journal of Engineering, 2019, 2019, 6928-6930.	1.1	1
92	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
93	Intermodulation-Based Nonlinear Smart Health Sensing of Human Vital Signs and Location. IEEE Access, 2019, 7, 158284-158295.	4.2	37
94	Sensitivity and Distortion Analysis of a 125-GHz Interferometry Radar for Submicrometer Motion Sensing Applications. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 5384-5395.	4.6	32
95	Microwave Imaging Customized on Demand Under Random Field Illumination. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1148-1156.	4.6	8
96	Potential Active Shooter Detection Based on Radar Micro-Doppler and Range-Doppler Analysis Using Artificial Neural Network. IEEE Sensors Journal, 2019, 19, 1052-1063.	4.7	37
97	A DC-Coupled High Dynamic Range Biomedical Radar Sensor With Fast-Settling Analog DC Offset Cancelation. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1441-1450.	4.7	25
98	Smart Radar Sensor Network for Bridge Displacement Monitoring. Journal of Bridge Engineering, 2019, 24, .	2.9	15
99	New Mixed-Mode Design Methodology for High-Efficiency Outphasing Chireix Amplifiers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 1594-1607.	5.4	37
100	Comparison of a genetic programming approach with ANFIS for power amplifier behavioral modeling and FPGA implementation. Soft Computing, 2019, 23, 2463-2481.	3.6	10
101	A Noncontact Breathing Disorder Recognition System Using 2.4-GHz Digital-IF Doppler Radar. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 208-217.	6.3	62
102	E-Eye: mmWave nonlinear response for hidden electronic device recognition. , 2019, , .		0
103	5.8-GHz ISM band intermodulation radar for high-sensitivity motion-sensing applications. , 2018, , .		11
104	Editors' Choiceâ€"Reviewâ€"Semiconductor Integrated Radar for Sensing Applications. ECS Journal of Solid State Science and Technology, 2018, 7, Q3126-Q3142.	1.8	6
105	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
106	Dual-Band Fresnel Zone Plate Antenna With Independently Steerable Beams. IEEE Transactions on Antennas and Propagation, 2018, 66, 2113-2118.	5.1	16
107	Noncontact Humanâ€"Machine Interface With Planar Probing Coils in a Differential Sensing Architecture. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 956-964.	4.7	9
108	IMS2018 Student Paper Competition. IEEE Microwave Magazine, 2018, 19, 53-53.	0.8	0

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109	Indoor localization based on a single-tone SIMO-structured Doppler radar system. , 2018, , .		2
110	An improved indoor localization solution using a hybrid UWB-Doppler system with Kalman filter. , 2018, , .		8
111	Mutual Coupling Reduction in a T/R Array with T-Resonate Cavity EBG (TRC-EBG). , 2018, , .		6
112	Design and Calibration of a Portable 24-GHz 3-D MIMO FMCW Radar with a Non-uniformly Spaced Array and RF Front-End Coexisting on the Same PCB Layer. , 2018, , .		1
113	Mutual Decoupling of Four-Element Transmit- Receive (T-R) Antenna Arrays Based on a Metamaterial Isolation Structure. , 2018, , .		3
114	A Human Tracking and Physiological Monitoring FSK Technology for Single Senior at Home Care. , 2018, 2018, 4432-4435.		12
115	A Novel Configurable Transceiver for a Hybrid Continuous Waveform Radar. , 2018, , .		0
116	Bioinspired In-Grid Navigation and Positioning Based on an Artificially Established Magnetic Gradient. IEEE Transactions on Vehicular Technology, 2018, 67, 10583-10589.	6.3	6
117	E-Eye. , 2018, , .		28
118	A Portable K-Band 3-D MIMO Radar With Nonuniformly Spaced Array for Short-Range Localization. IEEE Transactions on Microwave Theory and Techniques, 2018, , 1-12.	4.6	34
119	Wireless Indoor Positioning With Vertically Uniform Alternating Magnetic Fields. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2733-2735.	4.7	4
120	Vital-SAR-Imaging With a Drone-Based Hybrid Radar System. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5852-5862.	4.6	30
121	From Doppler to FMCW Radars for Non-Contact Vital-Sign Monitoring. , 2018, , .		13
122	Non-contact Beat-to-beat Blood Pressure Measurement Using Continuous Wave Doppler Radar. , 2018, , .		29
123	Full-Coverage Indoor SAR Imaging with a Vehicle-based FMCW Radar System. , 2018, , .		4
124	Range-gating technology for millimeter-wave radar remote gesture control in IoT applications. , 2018, , .		13
125	An efficient and extended range tracking method using a hybrid FSK-FMCW system. , 2018, , .		8
126	A millimeter-wave Doppler sensor for bio-signals detection. , 2018, , .		2

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127	A DC-coupled biomedical radar sensor with analog DC offset calibration circuit. , 2018, , .		7
128	Efficient algorithms for moving objects localization and tracking based on continuous Wave Doppler radar. , 2018, , .		1
129	Long-time non-contact water level measurement with a 5.8-GHz DC-coupled interferometry radar. , 2018, , .		0
130	Accuracy improvement in range measurements of short-range FSK radars. , 2018, , .		0
131	Chireix amplifier with enhanced bandwidth using active load. , 2018, , .		2
132	Wideband architecture for passive intermodulation localization. , 2018, , .		1
133	Doppler Vital Signs Detection in the Presence of Large-Scale Random Body Movements. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 4261-4270.	4.6	80
134	Single frequency microwave imaging based on compressed sensing. , 2018, , .		4
135	Investigation of unique broadband nonlinear RF response of electronic devices. , 2018, , .		6
136	Radar and ultrasound hybrid system for human computer interaction. , 2018, , .		3
137	Guest Editorial Wireless Sensing Circuits and Systems for Healthcare and Biomedical Applications. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 161-164.	3.6	6
138	On the design of GaN Chireix power amplifiers using an embedding device model. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2148.	1.9	14
139	Short-Range Wireless Localization Based on Meta-Aperture Assisted Compressed Sensing. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2516-2524.	4.6	7
140	A K -Band Portable FMCW Radar With Beamforming Array for Short-Range Localization and Vital-Doppler Targets Discrimination. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3443-3452.	4.6	67
141	Ultra sub-wavelength gigahertz resonator for constructing silicon-substrate metamaterials. , 2017, , .		0
142	Monte Carlo Analysis of Occurrence Thresholds of Multicarrier Multipactors. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2734-2748.	4.6	21
143	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
144	Structural displacement measurements using DC coupled radar with active transponder. Structural Control and Health Monitoring, 2017, 24, e1909.	4.0	24

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145	Compensating group delay distortion of signals based on engineered material dispersion. AIP Advances, 2017, 7, 045208.	1.3	3
146	Noncontact Physiological Dynamics Detection Using Low-power Digital-IF Doppler Radar. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1780-1788.	4.7	52
147	Doppler radar-based human breathing patterns classification using Support Vector Machine. , 2017, , .		15
148	Localization of Passive Intermodulation Based on the Concept of k -Space Multicarrier Signal. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 4997-5008.	4.6	14
149	Design of a 4-Way Chireix amplifier using a nonlinear embedding device model. , 2017, , .		7
150	Investigating Continuous Class-F Power Amplifier Using Nonlinear Embedding Model. IEEE Microwave and Wireless Components Letters, 2017, 27, 593-595.	3.2	60
151	Sleep stages classification by CW Doppler radar using bagged trees algorithm. , 2017, , .		20
152	Orientation and cancellation of directional interfering signals based on a radio frequency beamforming array. , 2017, , .		2
153	Hand gesture recognition based on Wi-Fi chipsets. , 2017, , .		2
154	An experimental study on the feasibility of fall prevention using a wearable K-band FMCW radar. , 2017, , .		11
155	Doppler-radar-based short-range acquisitions of time-frequency signatures from an industrial-type wind turbine. , 2017, , .		3
156	A frequency-multiplexed Doppler-plus-FMCW hybrid radar architecture: Theory and simulations. , 2017, , .		1
157	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
158	Cardiac Scan. , 2017, , .		117
159	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
160	Nonâ€Foster immittance observed in the fullâ€range frequency response. Microwave and Optical Technology Letters, 2017, 59, 2045-2048.	1.4	0
161	An FMCW radar sensor for human gesture recognition in the presence of multiple targets. , 2017, , .		38
162	SleepSense: A Noncontact and Cost-Effective Sleep Monitoring System. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 189-202.	4.0	100

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163	Theory and Implementation of Scattering-Dark-State Particles at Microwave Frequencies. IEEE Transactions on Antennas and Propagation, 2017, 65, 7119-7128.	5.1	1
164	A Full-Duplex Transceiver With Two-Stage Analog Cancellations for Multipath Self-Interference. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5263-5273.	4.6	68
165	Indoor range-direction-movement SAR for drone-based radar systems. , 2017, , .		1
166	Short-range indoor localization using a hybrid doppler-UWB system. , 2017, , .		13
167	Optimal Definition of Class F for Realistic Transistor Models. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3585-3595.	4.6	15
168	Reconfigurable diffractive antenna with three degrees of freedom. Electronics Letters, 2017, 53, 1452-1454.	1.0	4
169	Microwave Imaging under Oblique Illumination. Sensors, 2016, 16, 1046.	3.8	5
170	Time-Varying Vocal Folds Vibration Detection Using a 24 GHz Portable Auditory Radar. Sensors, 2016, 16, 1181.	3.8	19
171	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
172	A portable 24-GHz auditory radar for non-contact speech sensing with background noise rejection and directional discrimination. , 2016, , .		3
173	Novel Linearization Architecture with Limited ADC Dynamic Range for Green Power Amplifiers. IEEE Journal on Selected Areas in Communications, 2016, 34, 3902-3914.	14.0	19
174	Experimental investigation on throughâ€wall imaging based on nonâ€linear inversions. Electronics Letters, 2016, 52, 1933-1935.	1.0	11
175	Simulations to True Animalsâ€™ Long-Distance Geomagnetic Navigation. IEEE Transactions on Magnetics, 2016, , 1-1.	2.1	6
176	A feasibility study on human gait monitoring using a wearable K-band radar. , 2016, , .		2
177	On the feasibility of Non-contact Cardiac Motion Sensing for emerging heart-based biometrics. , 2016, , .		2
178	Portable coherent frequency-modulated continuous-wave radar for indoor human tracking. , 2016, , .		7
179	Random body movement mitigation for FMCW-radar-based vital-sign monitoring. , 2016, , .		21
180	FMCW radar fall detection based on ISAR processing utilizing the properties of RCS, range, and Doppler. , 2016, , .		33

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181	iPrevent: A novel wearable radio frequency range detector for fall prevention. , 2016, , .		5
182	Noncontact Measurement of Complex Permittivity of Electrically Small Samples at Microwave Frequencies. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 2883-2893.	4.6	34
183	Effects and mitigation of interference tones on coherent FMCW short-range radars. , 2016, , .		0
184	Effects and mitigation of interference tones on coherent FMCW short-range radars. , 2016, , .		0
185	Effects and mitigation of interference tones on coherent FMCW short-range radars. , 2016, , .		2
186	24-GHz biomedical radar on flexible substrate for ISAR imaging. , 2016, , .		15
187	Wireless Hand Gesture Recognition Based on Continuous-Wave Doppler Radar Sensors. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4012-4020.	4.6	116
188	Guest Editorial Special Issue on Emerging RF Measurement Techniques and Applications. IEEE Transactions on Microwave Theory and Techniques, 2016, , 1-3.	4.6	0
189	High-Precision Motion Detection Using Low-Complexity Doppler Radar With Digital Post-Distortion Technique. IEEE Transactions on Microwave Theory and Techniques, 2016, , 1-11.	4.6	53
190	Radio Frequency Beamforming Based on a Complex Domain Frontend. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 289-298.	4.6	17
191	A Self-Calibrating Radar Sensor System for Measuring Vital Signs. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 352-363.	4.0	67
192	Energy and Area Efficient Three-Input XOR/XNORs With Systematic Cell Design Methodology. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2016, 24, 398-402.	3.1	21
193	Zero voltage switching multi resonant converter using 0.6Âµm technology. , 2015, , .		0
194	A digital post-distortion technique for noncontact accurate movement measurement using interferometric radar. , 2015, , .		0
195	Non-contact measurement of complex permittivity based on coupled magnetic and electric resonances. , 2015, , .		2
196	Accurate DC offset calibration of Doppler radar via nonâ€convex optimisation. Electronics Letters, 2015, 51, 1282-1284.	1.0	11
197	SleepSense: Non-invasive sleep event recognition using an electromagnetic probe. , 2015, , .		8
198	Transistor characterization and modeling and the use of embedding device models for the design of microwave power amplifiers. , 2015, , .		6

#	Article	IF	Citations
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