

Changzhi Li

List of Publications by Year in descending order

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358
papers

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50276

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361
all docs

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361
times ranked

4382
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Recent Advances in Doppler Radar Sensors for Noncontact Healthcare Monitoring. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2046-2060.	4.6	655
2	Random Body Movement Cancellation in Doppler Radar Vital Sign Detection. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 3143-3152.	4.6	340
3	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
4	A Hybrid FMCW-Interferometry Radar for Indoor Precise Positioning and Versatile Life Activity Monitoring. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2812-2822.	4.6	238
5	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
6	Radar remote monitoring of vital signs. IEEE Microwave Magazine, 2009, 10, 47-56.	0.8	211
7	Experiment and Spectral Analysis of a Low-Power Ka -Band Heartbeat Detector Measuring From Four Sides of a Human Body. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4464-4471.	4.6	204
8	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
9	Noncontact Distance and Amplitude-Independent Vibration Measurement Based on an Extended DACM Algorithm. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 145-153.	4.7	169
10	Instrument-Based Noncontact Doppler Radar Vital Sign Detection System Using Heterodyne Digital Quadrature Demodulation Architecture. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1580-1588.	4.7	153
11	Accurate Respiration Measurement Using DC-Coupled Continuous-Wave Radar Sensor for Motion-Adaptive Cancer Radiotherapy. IEEE Transactions on Biomedical Engineering, 2012, 59, 3117-3123.	4.2	135
12	Accurate Doppler Radar Noncontact Vital Sign Detection Using the RELAX Algorithm. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 687-695.	4.7	120
13	A Hybrid Radar-Camera Sensing System With Phase Compensation for Random Body Movement Cancellation in Doppler Vital Sign Detection. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4678-4688.	4.6	118
14	Cardiac Scan. , 2017, , .		117
15	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
16	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
17	High-Sensitivity Software-Configurable 5.8-GHz Radar Sensor Receiver Chip in 0.13- μ m CMOS for Noncontact Vital Sign Detection. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1410-1419.	4.6	105
18	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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19	Optimal Carrier Frequency of Non-contact Vital Sign Detectors. , 2007, , .		83
20	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
21	A Tunable Microstrip Bandpass Filter With Two Independently Adjustable Transmission Zeros. IEEE Microwave and Wireless Components Letters, 2011, 21, 74-76.	3.2	78
22	1-D Microwave Imaging of Human Cardiac Motion: An Ab-Initio Investigation. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2101-2107.	4.6	76
23	Robust Overnight Monitoring of Human Vital Signs by a Non-contact Respiration and Heartbeat Detector. , 2006, 2006, 2235-8.		75
24	A Portable Noncontact Heartbeat and Respiration Monitoring System Using 5-GHz Radar. IEEE Sensors Journal, 2007, 7, 1042-1043.	4.7	75
25	Low-DC Voltage-Controlled Steering-Antenna Radome Utilizing Tunable Active Metamaterial. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 170-178.	4.6	71
26	Concurrent Dual-Band Modeling and Digital Predistortion in the Presence of Unfilterable Harmonic Signal Interference. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 625-637.	4.6	70
27	A 1- μ m ² 9 GHz Linear-Wide-Tuning-Range Quadrature Ring Oscillator in 130 nm CMOS for Non-Contact Vital Sign Radar Application. IEEE Microwave and Wireless Components Letters, 2010, 20, 34-36.	3.2	68
28	High Dynamic-Range Motion Imaging Based on Linearized Doppler Radar Sensor. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1837-1846.	4.6	68
29	Model-Based Nonlinear Embedding for Power-Amplifier Design. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1986-2002.	4.6	68
30	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
31	A Self-Calibrating Radar Sensor System for Measuring Vital Signs. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 352-363.	4.0	67
32	A 24-GHz 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
33	Towards Experimental Perfectly-Matched Layers With Ultra-Thin Metamaterial Surfaces. IEEE Transactions on Antennas and Propagation, 2012, 60, 5164-5172.	5.1	66
34	A Printed Single-Layer UWB Monopole Antenna With Extended Ground Plane Stubs. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 237-240.	4.0	62
35	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
36	Automated DC Offset Calibration Strategy for Structural Health Monitoring Based on Portable CW Radar Sensor. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 3111-3118.	4.7	61

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37	Assessment of Human Respiration Patterns via Noncontact Sensing Using Doppler Multi-Radar System. <i>Sensors</i> , 2015, 15, 6383-6398.	3.8	60
38	Investigating Continuous Class-F Power Amplifier Using Nonlinear Embedding Model. <i>IEEE Microwave and Wireless Components Letters</i> , 2017, 27, 593-595.	3.2	60
39	Robust Doppler radar demodulation via compressed sensing. <i>Electronics Letters</i> , 2012, 48, 1428.	1.0	59
40	A Fully Symmetrical Crossover and Its Dual-Frequency Application. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012, 60, 2410-2416.	4.6	58
41	Microwave Sensing and Sleep: Noncontact Sleep-Monitoring Technology With Microwave Biomedical Radar. <i>IEEE Microwave Magazine</i> , 2019, 20, 18-29.	0.8	57
42	Doppler Cardiogram: A Remote Detection of Human Heart Activities. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020, 68, 1132-1141.	4.6	54
43	High-Precision Motion Detection Using Low-Complexity Doppler Radar With Digital Post-Distortion Technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016, , 1-11.	4.6	53
44	Vital Sign Detection and Radar Self-Motion Cancellation Through Clutter Identification. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021, 69, 1932-1942.	4.6	53
45	Noncontact Physiological Dynamics Detection Using Low-power Digital-IF Doppler Radar. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017, 66, 1780-1788.	4.7	52
46	Wireless hydrogen sensor network using AlGaIn/GaN high electron mobility transistor differential diode sensors. <i>Sensors and Actuators B: Chemical</i> , 2008, 135, 188-194.	7.8	51
47	A 5GHz Double-Sideband Radar Sensor Chip in 0.18 μ m CMOS for Non-Contact Vital Sign Detection. <i>IEEE Microwave and Wireless Components Letters</i> , 2008, 18, 494-496.	3.2	51
48	Portable Microwave Radar Systems for Short-Range Localization and Life Tracking: A Review. <i>Sensors</i> , 2019, 19, 1136.	3.8	48
49	Asymmetric Doherty Power Amplifier Designed Using Model-Based Nonlinear Embedding. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014, 62, 3436-3451.	4.6	47
50	Optimal Matched Rectifying Surface for Space Solar Power Satellite Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014, 62, 1080-1089.	4.6	47
51	Reconfigurable Diffractive Antenna Based on Switchable Electrically Induced Transparency. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 925-936.	4.6	47
52	Robust detection of hydrogen using differential AlGaIn \cdot GaN high electron mobility transistor sensing diodes. <i>Applied Physics Letters</i> , 2006, 89, 242111.	3.3	44
53	Overview of Recent Development on Wireless Sensing Circuits and Systems for Healthcare and Biomedical Applications. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2018, 8, 165-177.	3.6	42
54	Cyclostationary approach to Doppler radar heart and respiration rates monitoring with body motion cancelation using Radar Doppler System. <i>Biomedical Signal Processing and Control</i> , 2014, 13, 79-88.	5.7	40

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55	An FMCW radar sensor for human gesture recognition in the presence of multiple targets. , 2017, , .		38
56	Intermodulation-Based Nonlinear Smart Health Sensing of Human Vital Signs and Location. IEEE Access, 2019, 7, 158284-158295.	4.2	37
57	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
58	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
59	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
60	Wireless Non-Contact Detection of Heartbeat and Respiration Using Low-Power Microwave Radar Sensor. , 2007, , .		35
61	Gesture recognition for smart home applications using portable radar sensors. , 2014, 2014, 6414-7.		35
62	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
63	Complex signal demodulation and random body movement cancellation techniques for non-contact vital sign detection. , 2008, , .		34
64	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
65	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
66	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
67	FMCW radar fall detection based on ISAR processing utilizing the properties of RCS, range, and Doppler. , 2016, , .		33
68	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
69	Inattentive Driving Behavior Detection Based on Portable FMCW Radar. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4031-4041.	4.6	33
70	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
71	Wide-Angle Beam Steering Based on an Active Conformal Metasurface Lens. IEEE Access, 2019, 7, 185264-185272.	4.2	31
72	Sensing of Life Activities at the Human-Microwave Frontier. IEEE Journal of Microwaves, 2021, 1, 66-78.	6.5	31

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73	Doppler radar vital sign detection with random body movement cancellation based on adaptive phase compensation. , 2013, , .		30
74	Vital-SAR-Imaging With a Drone-Based Hybrid Radar System. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5852-5862.	4.6	30
75	Stable hydrogen sensors from AlGaIn ^x GaN heterostructure diodes with TiB ₂ -based Ohmic contacts. Applied Physics Letters, 2007, 90, 252109.	3.3	29
76	Null point elimination using RF phase shifter in continuous-wave Doppler radar system. Electronics Letters, 2011, 47, 1196.	1.0	29
77	Hybrid FMCW-interferometry radar system in the 5.8 GHz ISM band for indoor precise position and motion detection. , 2013, , .		29
78	Non-contact Beat-to-beat Blood Pressure Measurement Using Continuous Wave Doppler Radar. , 2018, , .		29
79	E-Eye. , 2018, , .		28
80	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
81	Non-Contact Measurement of Periodic Movements by a 22-40GHz Radar Sensor Using Nonlinear Phase Modulation. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	27
82	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
83	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
84	A Broadband Microstrip Antenna With Improved Gain for Noncontact Vital Sign Radar Detection. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 939-942.	4.0	26
85	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
86	Experimental demonstration of noncontact pulse wave velocity monitoring using multiple Doppler radar sensors. , 2010, 2010, 5010-3.		25
87	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
88	A DC-Coupled High Dynamic Range Biomedical Radar Sensor With Fast-Settling Analog DC Offset Cancellation. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1441-1450.	4.7	25
89	Analysis of Detection Methods of RF Vibrometer for Complex Motion Measurement. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3556-3566.	4.6	24
90	Analysis and Experiment on the Modulation Sensitivity of Doppler Radar Vibration Measurement. IEEE Microwave and Wireless Components Letters, 2013, 23, 566-568.	3.2	24

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91	An Interference Suppression Technique for Life Detection Using 5.75- and 35-GHz Dual-Frequency Continuous-Wave Radar. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 482-486.	3.1	24
92	Structural displacement measurements using DC coupled radar with active transponder. Structural Control and Health Monitoring, 2017, 24, e1909.	4.0	24
93	Verification of a non-contact vital sign monitoring system using an infant simulator. , 2009, 2009, 4836-9.		23
94	Noncontact Vital Sign Detection based on Stepwise Atomic Norm Minimization. IEEE Signal Processing Letters, 2015, 22, 2479-2483.	3.6	23
95	Effects of I/Q mismatch on measurement of periodic movement using a Doppler radar sensor. , 2010, , .		22
96	A multi-radar wireless system for respiratory gating and accurate tumor tracking in lung cancer radiotherapy. , 2011, 2011, 417-20.		22
97	DC coupled CW radar sensor using fine-tuning adaptive feedback loop. Electronics Letters, 2012, 48, 344.	1.0	22
98	Wireless Sensing System-on-Chip for Near-Field Monitoring of Analog and Switch Quantities. IEEE Transactions on Industrial Electronics, 2012, 59, 1288-1299.	7.9	22
99	From Tumor Targeting to Speech Monitoring: Accurate Respiratory Monitoring Using Medical Continuous-Wave Radar Sensors. IEEE Microwave Magazine, 2014, 15, 66-76.	0.8	22
100	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
101	Noncontact Large-Scale Displacement Tracking: Doppler Radar for Water Level Gauging. IEEE Microwave and Wireless Components Letters, 2014, 24, 899-901.	3.2	21
102	Random body movement mitigation for FMCW-radar-based vital-sign monitoring. , 2016, , .		21
103	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
104	Monte Carlo Analysis of Occurrence Thresholds of Multicarrier Multipactors. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2734-2748.	4.6	21
105	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
106	Accuracy of A Low-Power Ka-Band Non-Contact Heartbeat Detector Measured from Four Sides of A Human Body. , 2006, , .		20
107	A wireless multifunctional radar-based displacement sensor for structural health monitoring. Proceedings of SPIE, 2011, , .	0.8	20
108	A Subthreshold-MOSFETs-Based Scattered Relative Temperature Sensor Front-End With a Non-Calibrated $\pm 2.5^{\circ}\text{C}$ Relative Inaccuracy From -40°C to 100°C . IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1104-1112.	5.4	20

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109	Sleep stages classification by CW Doppler radar using bagged trees algorithm. , 2017, , .		20
110	Head Motion and Eyes Blinking Detection: a mm-Wave Radar for Assisting People with Neurodegenerative Disorders. , 2021, , .		20
111	Radar motion sensing for accurate tumor tracking in radiation therapy. , 2011, , .		19
112	Time-Varying Vocal Folds Vibration Detection Using a 24 GHz Portable Auditory Radar. Sensors, 2016, 16, 1181.	3.8	19
113	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
114	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
115	Empowering Blind People Mobility: A Millimeter-Wave Radar Cane. , 2020, , .		19
116	Mitigation of stationary clutter in vitalâ€signâ€monitoring linearâ€frequencyâ€modulated continuousâ€wave radars. IET Radar, Sonar and Navigation, 2015, 9, 138-144.	1.8	18
117	A Reconfigurable Planar Fresnel Lens for Millimeter-Wave 5G Frontends. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4579-4588.	4.6	18
118	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
119	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
120	Doppler radar respiration measurement for gated lung cancer radiotherapy. , 2011, , .		17
121	A mm-Wave Stub-Loaded ECPW Wilkinson Power Divider/Combiner in 90 nm CMOS. IEEE Microwave and Wireless Components Letters, 2012, 22, 627-629.	3.2	17
122	Radio Frequency Beamforming Based on a Complex Domain Frontend. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 289-298.	4.6	17
123	Linear-frequency-modulated continuous-wave radar for vital-sign monitoring. , 2014, , .		16
124	Dual-Band Fresnel Zone Plate Antenna With Independently Steerable Beams. IEEE Transactions on Antennas and Propagation, 2018, 66, 2113-2118.	5.1	16
125	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
126	24-GHz biomedical radar on flexible substrate for ISAR imaging. , 2016, , .		15

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127	Doppler radar-based human breathing patterns classification using Support Vector Machine. , 2017, , .		15
128	Optimal Definition of Class F for Realistic Transistor Models. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3585-3595.	4.6	15
129	Fall detection with multi-domain features by a portable FMCW radar. , 2019, , .		15
130	FMCW Radar Driver Head Motion Monitoring Based on Doppler Spectrogram and Range-Doppler Evolution. , 2019, , .		15
131	Smart Radar Sensor Network for Bridge Displacement Monitoring. Journal of Bridge Engineering, 2019, 24, .	2.9	15
132	A 0.45-V MOSFETs-Based Temperature Sensor Front-End in 90 nm CMOS With a Noncalibrated $\pm 3.5\%$ Relative Inaccuracy From $\pm 55\%$ to 105% . IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 771-775.	3.0	14
133	Doppler Radar Motion Sensor With CMOS Digital DC-Tuning VGA and Inverter-Based Sigma-Delta Modulator. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2666-2674.	4.7	14
134	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
135	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
136	Accelerated Design Methodology for Dual-Input Doherty Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3983-3995.	4.6	14
137	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
138	Design Guidelines for Radio Frequency Non-contact Vital Sign Detection. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1651-4.	0.5	13
139	Long-Distance Geomagnetic Navigation: Imitations of Animal Migration Based on a New Assumption. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6715-6723.	6.3	13
140	Detection of bio-signals from body movement based on high-dynamic-range Doppler radar sensor (Invited). , 2015, , .		13
141	Short-range indoor localization using a hybrid doppler-UWB system. , 2017, , .		13
142	From Doppler to FMCW Radars for Non-Contact Vital-Sign Monitoring. , 2018, , .		13
143	Range-gating technology for millimeter-wave radar remote gesture control in IoT applications. , 2018, , .		13
144	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

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145	Dynamic and static structural displacement measurement using backscattering DC coupled radar. Smart Structures and Systems, 2015, 16, 521-535.	1.9	13
146	A software-defined multifunctional radar sensor for linear and reciprocal displacement measurement. , 2011, , .		12
147	A wireless smart sensor network based on multi-function interferometric radar sensors for structural health monitoring. , 2012, , .		12
148	Highly accurate noncontact water level monitoring using continuous-wave Doppler radar. , 2013, , .		12
149	Noncontact measurement of complex permittivity based on the principle of mid-range wireless power transfer. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 669-678.	4.6	12
150	Structural health monitoring of wind turbines using a low-cost portable k-band radar: An ab-initio field investigation. , 2015, , .		12
151	A 24-GHz low-cost continuous beam steering phased array for indoor smart radar. , 2015, , .		12
152	3-D Fourier Series Based Digital Predistortion Technique for Concurrent Dual-Band Envelope Tracking With Reduced Envelope Bandwidth. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2764-2775.	4.6	12
153	A Human Tracking and Physiological Monitoring FSK Technology for Single Senior at Home Care. , 2018, 2018, 4432-4435.		12
154	FMCW-Radar-Based Vital-Sign Monitoring of Multiple Patients. , 2019, , .		12
155	A Review: Recent Progress in the Design and Development of Nonlinear Radars. Remote Sensing, 2021, 13, 4982.	4.0	12
156	A radar-based sensor network for bridge displacement measurements. , 2012, , .		11
157	Using moderate inversion to optimize voltage gain, thermal noise, and settling time in two-stage CMOS amplifiers. , 2012, , .		11
158	VitalTrack: A Doppler radar sensor platform for monitoring activity levels. , 2012, , .		11
159	Accurate DC offset calibration of Doppler radar via non-convex optimisation. Electronics Letters, 2015, 51, 1282-1284.	1.0	11
160	Experimental investigation on through-wall imaging based on non-linear inversions. Electronics Letters, 2016, 52, 1933-1935.	1.0	11
161	An experimental study on the feasibility of fall prevention using a wearable K-band FMCW radar. , 2017, , .		11
162	5.8-GHz ISM band intermodulation radar for high-sensitivity motion-sensing applications. , 2018, , .		11

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163	Miniaturized Anechoic Chamber Constructed Based on an Inhomogeneous PML Model. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3595-3602.	4.6	11
164	A WPT/NFC-Based Sensing Approach for Beverage Freshness Detection Using Supervised Machine Learning. IEEE Sensors Journal, 2021, 21, 733-742.	4.7	11
165	Non-Contact Dual-Modality Emotion Recognition System by CW Radar and RGB Camera. IEEE Sensors Journal, 2021, 21, 23198-23212.	4.7	11
166	A 0.7 V Relative Temperature Sensor With a Non-Calibrated $\int_{m C}^{\circ} \text{m C}$ & $3 \int_{\sigma} \text{sigma}$ Relative Inaccuracy. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2434-2444.	5.4	10
167	Wearable indoor position tracking using onboard K-band Doppler radar and digital gyroscope. , 2015, , .		10
168	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
169	Implementation of a 2-D Reconfigurable Fresnel-Zone-Plate Antenna. IEEE Transactions on Antennas and Propagation, 2021, 69, 520-525.	5.1	10
170	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
171	A Review on Low-Cost Microwave Doppler Radar Systems for Structural Health Monitoring. Sensors, 2021, 21, 2612.	3.8	10
172	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
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