

# Zhongyuan Fang

## List of Publications by Year in descending order

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papers

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docs citations

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times ranked

136  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-Induced Surface Acoustic Wave Sensing-Based Malaria Parasite Detection and Analysis. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	12
2	A Silicon-Based Adaptable Edge Coherent Radar Platform for Seamless Health Sensing and Cognitive Interactions With Human Subjects. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 138-152.	4.0	9
3	Integrated Wideband Chip-Scale RF Transceivers for Radar Sensing and UWB Communications: A Survey. IEEE Circuits and Systems Magazine, 2022, 22, 40-76.	2.3	13
4	A 164- $\mu$ W 915-MHz Sub-Sampling Phase-Tracking Zero-IF Receiver With 5-Mb/s Data Rate for Short-Range Applications. IEEE Journal of Solid-State Circuits, 2022, 57, 2658-2671.	5.4	2
5	Circuit, Antenna, and Algorithm Co-Design of CMOS-Integrated Coherent FMCW Radar Sensor for Edge Vital Signs Monitoring. , 2022, , .		0
6	Gain-Enhanced Wideband Antenna Sensor Integrated with CMOS-Based Transceiver Chip for Human Respiratory Monitoring in Telemedicine Diagnosis. , 2022, , .		1
7	MRC-Based Double Figure-of-Eight Coil Sensor System With Triple-Mode Operation Capability for Biomedical Applications. IEEE Sensors Journal, 2021, 21, 14491-14502.	4.7	19
8	Compact Dual-Polarized Wideband Antenna With Dual-/Single-Band Shifting for Microbase Station Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 7323-7332.	5.1	28
9	14.2 An Early Fusion Complementary RADAR-LiDAR TRX in 65nm CMOS Supporting Gear-Shifting Sub-cm Resolution for Smart Sensing and Imaging. , 2021, , .		4
10	A 75.3 pJ/b Ultra-Low Power MEMS-Based FSK Transmitter in ISM-915 MHz Band for Pico-IoT Applications. , 2021, , .		2
11	A CMOS-Integrated Radar-Assisted Cognitive Sensing Platform for Seamless Human-Robot Interactions. , 2021, , .		6
12	A Super-Sensitivity Photoacoustic Receiver System-on-Chip Based on Coherent Detection and Tracking. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 454-463.	4.0	3
13	A Mixed-Signal Chip-Based Configurable Coherent Photoacoustic-Radar Sensing Platform for <i>In Vivo</i> Temperature Monitoring and Vital Signs Detection. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 666-678.	4.0	11
14	Wideband Gain Enhancement of an AMC Cavity-Backed Dual-Polarized Antenna. IEEE Transactions on Vehicular Technology, 2021, 70, 12703-12712.	6.3	23
15	A Broadband Resonant Noise Matching Technique for Piezoelectric Ultrasound Transducers. IEEE Sensors Journal, 2020, 20, 4290-4299.	4.7	13
16	A Photoacoustic Receiver System-on-Chip with a Novel Correlation Detection Technique Based on Early-and-Late Tracking. , 2020, , .		2
17	A 4TX/4RX Pulsed Chirping Phased-Array Radar Transceiver in 65-nm CMOS for X-Band Synthetic Aperture Radar Application. IEEE Journal of Solid-State Circuits, 2020, 55, 2970-2983.	5.4	20
18	Compact Quad-Element Vertically-Polarized High-Isolation Wideband MIMO Antenna for Vehicular Base Station. IEEE Transactions on Vehicular Technology, 2020, 69, 10000-10008.	6.3	35

#	ARTICLE	IF	CITATIONS
19	A Quadrature Adaptive Coherent Lock-in Chip-Based Sensor for Accurate Photoacoustic Detection. , 2020, , .		3
20	Precision Improvement of Power-Efficient Capacitive Sensor Readout Circuit Using Multi-Nested Clocks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 2578-2587.	5.4	7
21	Wide Field-of-View Locating and Multimodal Vital Sign Monitoring Based on $\{X\}$ -Band CMOS-Integrated Phased-Array Radar Sensor. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4054-4065.	4.6	36
22	An Adaptive Beamforming Technique for UWB Impulse Transceiver. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 417-421.	3.0	5
23	Noncontact Thickness Measurement of Cu Film on Silicon Wafer Using Magnetic Resonance Coupling for Stress Free Polishing Application. IEEE Access, 2019, 7, 75330-75341.	4.2	4
24	A Two-Stage Push-Pull Power Amplifier with Electro-Thermal Effects Study in 130 nm SOI CMOS for IEEE 802.11ac Applications. , 2019, , .		1
25	A Digital-Enhanced Chip-Scale Photoacoustic Sensor System for Blood Core Temperature Monitoring and <i>In Vivo</i> Imaging. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1405-1416.	4.0	13
26	A Digital-Enhanced Interferometric Radar Sensor for Physiological Sign Monitoring. , 2019, , .		0
27	Compact Broadband Four-Port MIMO Antenna for 5G and IoT Applications. , 2019, , .		4
28	Radar Transceivers for Inverse Synthetic Aperture Radar (ISAR) Imaging of Human Activity in 65nm CMOS. , 2019, , .		1
29	A Low Power Analog Front-end for Ultrasound Receiver. , 2019, , .		1
30	Capacitive Touch Panel With Low Sensitivity to Water Drop Employing Mutual-Coupling Electrical Field Shaping Technique. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 1393-1404.	5.4	13
31	A 253mW/channel 4TX/4RX pulsed chirping phased-array radar TRX in 65nm CMOS for X-band synthetic-aperture radar imaging. , 2018, , .		12
32	A DLL-based Configurable Multi-Phase Clock Generator for True-Time-Delay Wideband FMCW Phased-Array in 40nm CMOS. , 2018, , .		6
33	A Ku-band FMCW Radar on Chip for Wireless Micro Physiological Signal Monitoring by Interferometry Phase Analysis. , 2018, , .		11
34	A DDS-Driven ADPLL Chirp Synthesizer with Ramp-Interpolating Linearization for FMCW Radar Application in 65nm CMOS. , 2018, , .		2