

Yuanjin Zheng

List of Publications by Year in descending order

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304743

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docs citations

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times ranked

2291
citing authors

#	ARTICLE	IF	CITATIONS
1	A 98.6 dB SNDR SAR ADC With a Mismatch Error Shaping Technique Implemented With Double Sampling. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 774-778.	3.0	2
2	Flexible Tri-Band Dual-Polarized MIMO Belt Strap Antenna Toward Wearable Applications in Intelligent Internet of Medical Things. IEEE Transactions on Antennas and Propagation, 2022, 70, 197-208.	5.1	15
3	High-Precision Thickness Measurement of Cu Film on Si-Based Wafer Using Erasable Printed Eddy Current Coil and High-Sensitivity Associated Circuit Techniques. IEEE Transactions on Industrial Electronics, 2022, 69, 9556-9565.	7.9	6
4	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
5	Image reconstruction of immersed ultrasonic testing for strongly attenuative materials. Mechanical Systems and Signal Processing, 2022, 168, 108654.	8.0	7
6	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
7	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
8	A 164- μ 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
9	Circuit, Antenna, and Algorithm Co-Design of CMOS-Integrated Coherent FMCW Radar Sensor for Edge Vital Signs Monitoring. , 2022, , .		0
10	Gain-Enhanced Wideband Antenna Sensor Integrated with CMOS-Based Transceiver Chip for Human Respiratory Monitoring in Telemedicine Diagnosis. , 2022, , .		1
11	A Floating-Body Transistor-Based Power Amplifier for Sub-6-GHz 5G Applications in SOI CMOS 130-nm Process. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4088-4092.	3.0	2
12	A Signal Response Visualization Gas Recognition Algorithm Based on a Wavelet Transform Coefficient Map-Capsule Network for Artificial Olfaction. IEEE Sensors Journal, 2022, 22, 14717-14726.	4.7	5
13	Measurement and Error Analysis of Cu Film Thickness With Ta Barrier Layer on Wafer for CMP Application. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	5
14	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
15	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
16	Wideband Gain Enhancement of High-Isolation Fabry-Pérot Antenna Array With Tandem Circular Parasitic Patches and Radial Gradient PRS. IEEE Transactions on Antennas and Propagation, 2021, 69, 7959-7964.	5.1	28
17	A CMOS-Integrated Radar-Assisted Cognitive Sensing Platform for Seamless Human-Robot Interactions. , 2021, , .		6
18	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

#	ARTICLE	IF	CITATIONS
19	A Mixed-Signal Chip-Based Configurable Coherent Photoacoustic-Radar Sensing Platform for <i>In Vivo</i> Temperature Monitoring and Vital Signs Detection. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021, 15, 666-678.	4.0	11
20	An Area-Efficient SAR ADC With Mismatch Error Shaping Technique Achieving 102-dB SFDR 90.2-dB SNDR Over 20-kHz Bandwidth. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2021, 29, 1575-1585.	3.1	9
21	Wideband Gain Enhancement of a Dual-Polarized MIMO Vehicular Antenna. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 7897-7907.	6.3	30
22	Wideband Gain Enhancement of an AMC Cavity-Backed Dual-Polarized Antenna. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 12703-12712.	6.3	23
23	Rapid Three-Dimensional Photoacoustic Imaging Reconstruction for Irregularly Layered Heterogeneous Media. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1041-1050.	8.9	14
24	A 600-mA, Fast-Transient Low-Dropout Regulator With Pseudo-ESR Technique in 0.18- μm CMOS Process. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2020, 28, 403-413.	3.1	12
25	A Broadband Resonant Noise Matching Technique for Piezoelectric Ultrasound Transducers. <i>IEEE Sensors Journal</i> , 2020, 20, 4290-4299.	4.7	13
26	A Photoacoustic Receiver System-on-Chip with a Novel Correlation Detection Technique Based on Early-and-Late Tracking. , 2020, , .		2
27	A 4TX/4RX Pulsed Chirping Phased-Array Radar Transceiver in 65-nm CMOS for X-Band Synthetic Aperture Radar Application. <i>IEEE Journal of Solid-State Circuits</i> , 2020, 55, 2970-2983.	5.4	20
28	Compact Quad-Element Vertically-Polarized High-Isolation Wideband MIMO Antenna for Vehicular Base Station. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 10000-10008.	6.3	35
29	Lab-on-Mask for Remote Respiratory Monitoring. , 2020, 2, 1178-1181.		58
30	A Quadrature Adaptive Coherent Lock-in Chip-Based Sensor for Accurate Photoacoustic Detection. , 2020, , .		3
31	Evaluation of Reconstruction Methodology for Helical Scan Guided Photoacoustic Endoscopy. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 4198-4208.	8.9	2
32	Attenuation Compensation for High-Frequency Acoustic-Resolution Photoacoustic Imaging. , 2020, , .		0
33	Precision Improvement of Power-Efficient Capacitive Sensor Readout Circuit Using Multi-Nested Clocks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020, 67, 2578-2587.	5.4	7
34	A Multi-Loop Slew-Rate-Enhanced NMOS LDO Handling 1-A-Load-Current Step With Fast Transient for 5G Applications. <i>IEEE Journal of Solid-State Circuits</i> , 2020, 55, 3076-3086.	5.4	36
35	Pre-migration: A General Extension for Photoacoustic Imaging Reconstruction. <i>IEEE Transactions on Computational Imaging</i> , 2020, 6, 1097-1105.	4.4	10
36	Frequency Domain Based Virtual Detector for Heterogeneous Media in Photoacoustic Imaging. <i>IEEE Transactions on Computational Imaging</i> , 2020, 6, 569-578.	4.4	19

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37	Development of a Handheld Volumetric Photoacoustic Imaging System With a Central-Holed 2D Matrix Aperture. IEEE Transactions on Biomedical Engineering, 2020, 67, 2482-2489.	4.2	10
38	High Power Angular Radial Staggered Vane Backward Wave Oscillator at W-Band. IEEE Electron Device Letters, 2020, 41, 765-768.	3.9	7
39	A Photoacoustic-Surface-Acoustic-Wave Sensor for Ring-Stage Malaria Parasite Detection. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 881-885.	3.0	11
40	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
41	Fast and High-Resolution Three-Dimensional Hybrid-Domain Photoacoustic Imaging Incorporating Analytical-Focused Transducer Beam Amplitude. IEEE Transactions on Medical Imaging, 2019, 38, 2926-2936.	8.9	24
42	Toward Wearable Healthcare: A Miniaturized 3D Imager With Coherent Frequency-Domain Photoacoustics. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1417-1424.	4.0	17
43	Ka -Band Symmetric V-Shaped Meander-Line Slow Wave Structure. IEEE Transactions on Plasma Science, 2019, 47, 4650-4657.	1.3	27
44	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
45	A Single Sensor Dual-Modality Photoacoustic Fusion Imaging for Compensation of Light Fluence Variation. IEEE Transactions on Biomedical Engineering, 2019, 66, 1810-1813.	4.2	12
46	Analysis and Design of Coil-Based Electromagnetic-Induced Thermoacoustic for Rail Internal-Flaw Inspection. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2691-2702.	8.0	27
47	Noninvasive Electromagnetic Wave Sensing of Glucose. Sensors, 2019, 19, 1151.	3.8	59
48	Handheld Photoacoustic Imager for Theranostics in 3D. IEEE Transactions on Medical Imaging, 2019, 38, 2037-2046.	8.9	32
49	Photoacoustic Resonance Imaging. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	2.9	15
50	GPU-accelerated two dimensional synthetic aperture focusing for photoacoustic microscopy. APL Photonics, 2018, 3, .	5.7	20
51	Improved Design of the Vivaldi Dielectric Notch Radiator With Etched Slots and a Parasitic Patch. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1064-1068.	4.0	19
52	A 253mW/channel 4TX/4RX pulsed chirping phased-array radar TRX in 65nm CMOS for X-band synthetic-aperture radar imaging. , 2018, , .		12
53	A Compressed Sensing Based Miniaturized Photoacoustic Imaging System. , 2018, , .		2
54	Portable photoacoustic system for noninvasive blood temperature measurement. , 2018, , .		11

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55	A Ku-band FMCW Radar on Chip for Wireless Micro Physiological Signal Monitoring by Interferometry Phase Analysis. , 2018, , .		11
56	Plasmonic Perovskite Light-Emitting Diodes Based on the Ag ⁺ CsPbBr ₃ System. ACS Applied Materials & Interfaces, 2017, 9, 4926-4931.	8.0	91
57	An analytical study of photoacoustic and thermoacoustic generation efficiency towards contrast agent and film design optimization. Photoacoustics, 2017, 7, 1-11.	7.8	35
58	A 13.5-19 GHz 20.6-dB Gain CMOS Power Amplifier for FMCW Radar Application. IEEE Microwave and Wireless Components Letters, 2017, 27, 377-379.	3.2	28
59	Magnetoacoustic microscopic imaging of conductive objects and nanoparticles distribution. Journal of Applied Physics, 2017, 122, .	2.5	10
60	Single laser pulse generates dual photoacoustic signals for differential contrast photoacoustic imaging. Scientific Reports, 2017, 7, 626.	3.3	71
61	Design of broadband phased array antenna at X-band. , 2017, , .		4
62	19-5L: <i>Late-News Paper</i>: Perceptually Optimized Dual-layer Light Field 3D Display Using a Moiré-aware Compressive Factorization. Digest of Technical Papers SID International Symposium, 2016, 47, 235-238.	0.3	4
63	All-inorganic Perovskite Nanocrystals for High-efficiency Light Emitting Diodes: Dual-phase CsPbBr ₃ -CsPb ₂ Br ₅ Composites. Advanced Functional Materials, 2016, 26, 4595-4600.	14.9	425
64	High-performance hybrid organic-inorganic perovskite nanoparticles based piezoelectric energy harvester. , 2016, , .		1
65	Photoacoustic induced surface acoustic wave sensor for concurrent opto-mechanical microfluidic sensing of dyes and plasmonic nanoparticles. RSC Advances, 2016, 6, 50238-50244.	3.6	17
66	A Prototype for a Palm-sized Photoacoustic Sensing Unit. X-Acoustics Imaging and Sensing, 2015, 1, .	0.1	5
67	Self temperature regulation of photothermal therapy by laser-shared photoacoustic feedback. Optics Letters, 2015, 40, 4492.	3.3	25
68	Photoacoustic elastic oscillation and characterization. Optics Express, 2015, 23, 20617.	3.4	40
69	Focused Magnetic Resonance Coupling Coils for Electromagnetic Therapy Applications. IEEE Transactions on Biomedical Engineering, 2015, 62, 2602-2610.	4.2	8
70	Fast photoacoustic-guided depth-resolved Raman spectroscopy: a feasibility study. Optics Letters, 2015, 40, 3568.	3.3	23
71	Thermally modulated photoacoustic imaging with super-paramagnetic iron oxide nanoparticles. Optics Letters, 2014, 39, 3414.	3.3	28
72	Coherent Photoacoustic-Ultrasound Correlation and Imaging. IEEE Transactions on Biomedical Engineering, 2014, 61, 2507-2512.	4.2	56

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73	A novel analog-to-residue converter for biomedical DSP application. , 2012, , .		0
74	Fast-Transient Integrated Digital DC-DC Converter With Predictive and Feedforward Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 1567-1576.	5.4	47
75	A High-Resolution and Robust 12-bit DPWM for Digital DC-DC Converters. IEICE Transactions on Electronics, 2011, E94-C, 1455-1463.	0.6	0
76	A CMOS Energy Efficient UWB transmitter module. , 2009, , .		1
77	Time-varying autoregressive system identification using wavelets. , 0, , .		2