

# Yuanjin Zheng

## List of Publications by Year in descending order

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77  
papers

1,753  
citations

304743

22  
h-index

302126

39  
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77  
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77  
docs citations

77  
times ranked

2291  
citing authors

#	ARTICLE	IF	CITATIONS
1	All-inorganic Perovskite Nanocrystals for High-Efficiency Light Emitting Diodes: Dual-Phase CsPbBr <sub>3</sub> -CsPb <sub>2</sub> Br <sub>5</sub> Composites. <i>Advanced Functional Materials</i> , 2016, 26, 4595-4600.	14.9	425
2	Plasmonic Perovskite Light-Emitting Diodes Based on the Ag-CsPbBr <sub>3</sub> System. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4926-4931.	8.0	91
3	Single laser pulse generates dual photoacoustic signals for differential contrast photoacoustic imaging. <i>Scientific Reports</i> , 2017, 7, 626.	3.3	71
4	Noninvasive Electromagnetic Wave Sensing of Glucose. <i>Sensors</i> , 2019, 19, 1151.	3.8	59
5	Lab-on-Mask for Remote Respiratory Monitoring. , 2020, 2, 1178-1181.		58
6	Coherent Photoacoustic-Ultrasound Correlation and Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 2507-2512.	4.2	56
7	Fast-Transient Integrated Digital DC-DC Converter With Predictive and Feedforward Control. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012, 59, 1567-1576.	5.4	47
8	Photoacoustic elastic oscillation and characterization. <i>Optics Express</i> , 2015, 23, 20617.	3.4	40
9	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
10	Wide Field-of-View Locating and Multimodal Vital Sign Monitoring Based on X-Band CMOS-Integrated Phased-Array Radar Sensor. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020, 68, 4054-4065.	4.6	36
11	An analytical study of photoacoustic and thermoacoustic generation efficiency towards contrast agent and film design optimization. <i>Photoacoustics</i> , 2017, 7, 1-11.	7.8	35
12	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
13	Handheld Photoacoustic Imager for Theranostics in 3D. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2037-2046.	8.9	32
14	Wideband Gain Enhancement of a Dual-Polarized MIMO Vehicular Antenna. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 7897-7907.	6.3	30
15	Thermally modulated photoacoustic imaging with super-paramagnetic iron oxide nanoparticles. <i>Optics Letters</i> , 2014, 39, 3414.	3.3	28
16	A 13.5-19 GHz 20.6-dB Gain CMOS Power Amplifier for FMCW Radar Application. <i>IEEE Microwave and Wireless Components Letters</i> , 2017, 27, 377-379.	3.2	28
17	Compact Dual-Polarized Wideband Antenna With Dual-/Single-Band Shifting for Microbase Station Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 7323-7332.	5.1	28
18	Wideband Gain Enhancement of High-Isolation Fabry-Pérot Antenna Array With Tandem Circular Parasitic Patches and Radial Gradient PRS. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 7959-7964.	5.1	28

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19	\$Ka\$ -Band Symmetric V-Shaped Meander-Line Slow Wave Structure. IEEE Transactions on Plasma Science, 2019, 47, 4650-4657.	1.3	27
20	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
21	Self temperature regulation of photothermal therapy by laser-shared photoacoustic feedback. Optics Letters, 2015, 40, 4492.	3.3	25
22	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
23	Fast photoacoustic-guided depth-resolved Raman spectroscopy: a feasibility study. Optics Letters, 2015, 40, 3568.	3.3	23
24	Wideband Gain Enhancement of an AMC Cavity-Backed Dual-Polarized Antenna. IEEE Transactions on Vehicular Technology, 2021, 70, 12703-12712.	6.3	23
25	GPU-accelerated two dimensional synthetic aperture focusing for photoacoustic microscopy. APL Photonics, 2018, 3, .	5.7	20
26	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
27	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
28	Frequency Domain Based Virtual Detector for Heterogeneous Media in Photoacoustic Imaging. IEEE Transactions on Computational Imaging, 2020, 6, 569-578.	4.4	19
29	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
30	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
31	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
32	Photoacoustic Resonance Imaging. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	2.9	15
33	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
34	Rapid Three-Dimensional Photoacoustic Imaging Reconstruction for Irregularly Layered Heterogeneous Media. IEEE Transactions on Medical Imaging, 2020, 39, 1041-1050.	8.9	14
35	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
36	A Broadband Resonant Noise Matching Technique for Piezoelectric Ultrasound Transducers. IEEE Sensors Journal, 2020, 20, 4290-4299.	4.7	13

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37	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
38	A 253mW/channel 4TX/4RX pulsed chirping phased-array radar TRX in 65nm CMOS for X-band synthetic-aperture radar imaging. , 2018, , .		12
39	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
40	A 600-mA, Fast-Transient Low-Dropout Regulator With Pseudo-ESR Technique in 0.18- $\mu\text{m}$ CMOS Process. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 403-413.	3.1	12
41	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
42	Portable photoacoustic system for noninvasive blood temperature measurement. , 2018, , .		11
43	A Ku-band FMCW Radar on Chip for Wireless Micro Physiological Signal Monitoring by Interferometry Phase Analysis. , 2018, , .		11
44	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
45	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
46	Magnetoacoustic microscopic imaging of conductive objects and nanoparticles distribution. Journal of Applied Physics, 2017, 122, .	2.5	10
47	Pre-migration: A General Extension for Photoacoustic Imaging Reconstruction. IEEE Transactions on Computational Imaging, 2020, 6, 1097-1105.	4.4	10
48	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
49	An Area-Efficient SAR ADC With Mismatch Error Shaping Technique Achieving 102-dB SFDR 90.2-dB SNDR Over 20-kHz Bandwidth. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2021, 29, 1575-1585.	3.1	9
50	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
51	Focused Magnetic Resonance Coupling Coils for Electromagnetic Therapy Applications. IEEE Transactions on Biomedical Engineering, 2015, 62, 2602-2610.	4.2	8
52	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
53	High Power Angular Radial Staggered Vane Backward Wave Oscillator at W-Band. IEEE Electron Device Letters, 2020, 41, 765-768.	3.9	7
54	Image reconstruction of immersed ultrasonic testing for strongly attenuative materials. Mechanical Systems and Signal Processing, 2022, 168, 108654.	8.0	7

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55	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
56	A CMOS-Integrated Radar-Assisted Cognitive Sensing Platform for Seamless Human-Robot Interactions. , 2021, , .		6
57	A Prototype for a Palm-sized Photoacoustic Sensing Unit. X-Acoustics Imaging and Sensing, 2015, 1, .	0.1	5
58	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
59	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
60	19-5L:Late-News Paper: 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
61	Design of broadband phased array antenna at X-band. , 2017, , .		4
62	A Quadrature Adaptive Coherent Lock-in Chip-Based Sensor for Accurate Photoacoustic Detection. , 2020, , .		3
63	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
64	Time-varying autoregressive system identification using wavelets. , 0, , .		2
65	A Compressed Sensing Based Miniaturized Photoacoustic Imaging System. , 2018, , .		2
66	A Photoacoustic Receiver System-on-Chip with a Novel Correlation Detection Technique Based on Early-and-Late Tracking. , 2020, , .		2
67	Evaluation of Reconstruction Methodology for Helical Scan Guided Photoacoustic Endoscopy. IEEE Transactions on Medical Imaging, 2020, 39, 4198-4208.	8.9	2
68	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
69	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
70	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
71	A CMOS Energy Efficient UWB transmitter module. , 2009, , .		1
72	High-performance hybrid organic-inorganic perovskite nanoparticles based piezoelectric energy harvester. , 2016, , .		1

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73	Gain-Enhanced Wideband Antenna Sensor Integrated with CMOS-Based Transceiver Chip for Human Respiratory Monitoring in Telemedicine Diagnosis. , 2022, , .		1
74	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
75	A novel analog-to-residue converter for biomedical DSP application. , 2012, , .		0
76	Attenuation Compensation for High-Frequency Acoustic-Resolution Photoacoustic Imaging. , 2020, , .		0
77	Circuit, Antenna, and Algorithm Co-Design of CMOS-Integrated Coherent FMCW Radar Sensor for Edge Vital Signs Monitoring. , 2022, , .		0