Huabei Jiang

List of Publications by Citations

192 papers	2,596 citations	26 h-index	43 g-index
224 ext. papers	3,398 ext. citations	4.2 avg, IF	5.53 L-index

#	Paper	IF	Citations
192	Hybrid Perovskite Light-Emitting Diodes Based on Perovskite Nanocrystals with Organic-Inorganic Mixed Cations. *Advanced Materials*, **2017**, 29, 1606405	24	189
191	Contrast agents for photoacoustic and thermoacoustic imaging: a review. *International Journal of Molecular Sciences*, **2014**, 15, 23616-39	6.3	130
190	Flexible Piezoelectric Nanocomposite Generators Based on Formamidinium Lead Halide Perovskite Nanoparticles. *Advanced Functional Materials*, **2016**, 26, 7708-7716	15.6	112
189	Surface engineering of semiconducting polymer nanoparticles for amplified photoacoustic imaging. *Biomaterials*, **2017**, 127, 97-106	15.6	105
188	Multispectral optoacoustic imaging of dynamic redox correlation and pathophysiological progression utilizing upconversion nanoprobes. *Nature Communications*, **2019**, 10, 1087	17.4	89
187	Evaluation of breast tumor margins in vivo with intraoperative photoacoustic imaging. *Optics Express*, **2012**, 20, 8726-31	3.3	76
186	Spatially varying optical and acoustic property reconstruction using finite-element-based photoacoustic tomography. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2006**, 23, 878-88	1.8	72
185	Non-invasive imaging of epileptic seizures in vivo using photoacoustic tomography. *Physics in Medicine and Biology*, **2008**, 53, 1921-31	3.8	61
184	Design and evaluation of a hybrid photoacoustic tomography and diffuse optical tomography system for breast cancer detection. *Medical Physics*, **2012**, 39, 2584-94	4.4	60
183	Wearable 3-D Photoacoustic Tomography for Functional Brain Imaging in Behaving Rats. *Scientific Reports*, **2016**, 6, 25470	4.9	51
182	Single laser pulse generates dual photoacoustic signals for differential contrast photoacoustic imaging. *Scientific Reports*, **2017**, 7, 626	4.9	50
181	High resolution three-dimensional photoacoustic imaging of human finger joints in vivo. *Applied Physics Letters*, **2015**, 107, 063701	3.4	44
180	Noninvasive high-speed photoacoustic tomography of cerebral hemodynamics in awake-moving rats. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 1224-32	7.3	43
179	AlN-based piezoelectric micromachined ultrasonic transducer for photoacoustic imaging. *Applied Physics Letters*, **2013**, 103, 031118	3.4	43
178	Coherent photoacoustic-ultrasound correlation and imaging. *IEEE Transactions on Biomedical Engineering*, **2014**, 61, 2507-2512	5	41
177	High resolution functional photoacoustic tomography of breast cancer. *Medical Physics*, **2015**, 42, 5321-8	4.4	39
176	Ultrasound-guided microwave imaging of breast cancer: tissue phantom and pilot clinical experiments. *Medical Physics*, **2005**, 32, 2528-35	4.4	37

175	Directly printed wearable electronic sensing textiles towards human–machine interfaces. *Journal of Materials Chemistry C*, **2018**, 6, 12841-12848	7.1	37
174	Miniature Endoscope for Multimodal Imaging. *ACS Photonics*, **2017**, 4, 174-180	6.3	34
173	A bioinspired analogous nerve towards artificial intelligence. *Nature Communications*, **2020**, 11, 268	17.4	34
172	Photoacoustic resonance spectroscopy for biological tissue characterization. *Journal of Biomedical Optics*, **2014**, 19, 067006	3.5	34
171	Controllably Enhancing Stretchability of Highly Sensitive Fiber-Based Strain Sensors for Intelligent Monitoring. *ACS Applied Materials & Interfaces*, **2019**, 11, 2431-2440	9.5	32
170	Two schemes for quantitative photoacoustic tomography based on Monte Carlo simulation. *Medical Physics*, **2016**, 43, 3987	4.4	31
169	HER-2/neu targeted delivery of a nanoprobe enables dual photoacoustic and fluorescence tomography of ovarian cancer. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 669-77	6	28
168	Noninvasive Electromagnetic Wave Sensing of Glucose. *Sensors*, **2019**, 19,	3.8	27
167	A Self-Powered Power Conditioning IC for Piezoelectric Energy Harvesting From Short-Duration Vibrations. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2012**, 59, 578-582	3.5	27
166	An analytical study of photoacoustic and thermoacoustic generation efficiency towards contrast agent and film design optimization. *Photoacoustics*, **2017**, 7, 1-11	9	26
165	Remarkable In Vivo Nonlinear Photoacoustic Imaging Based on Near-Infrared Organic Dyes. *Small*, **2016**, 12, 5239-5244	11	26
164	Noninvasive real time tomographic imaging of epileptic foci and networks. *NeuroImage*, **2013**, 66, 240-8	7.9	25
163	Thermoacoustic Tomography of In Vivo Human Finger Joints. *IEEE Transactions on Biomedical Engineering*, **2019**, 66, 1598-1608	5	25
162	Efficient visible light modulation based on electrically tunable all dielectric metasurfaces embedded in thin-layer nematic liquid crystals. *Scientific Reports*, **2019**, 9, 8673	4.9	23
161	Wearable scanning photoacoustic brain imaging in behaving rats. *Journal of Biophotonics*, **2016**, 9, 570-5	3.1	23
160	Single-Wavelength Blood Oxygen Saturation Sensing With Combined Optical Absorption and Scattering. *IEEE Sensors Journal*, **2016**, 16, 1943-1948	4	22
159	Hierarchically distributed microstructure design of haptic sensors for personalized fingertip mechanosensational manipulation. *Materials Horizons*, **2018**, 5, 920-931	14.4	22
158	Photoacoustic computed microscopy. *Scientific Reports*, **2014**, 4, 4960	4.9	20

157	Seed-Mediated Synthesis of Tunable-Aspect-Ratio Gold Nanorods for Near-Infrared Photoacoustic Imaging. *Nanoscale Research Letters*, **2018**, 13, 313	5	20
156	Electrical circuit modeling and analysis of microwave acoustic interaction with biological tissues. *Medical Physics*, **2014**, 41, 053302	4.4	18
155	Ka -Band Symmetric V-Shaped Meander-Line Slow Wave Structure. *IEEE Transactions on Plasma Science*, **2019**, 47, 4650-4657	1.3	17
154	A Multi-Loop Slew-Rate-Enhanced NMOS LDO Handling 1-A-Load-Current Step With Fast Transient for 5G Applications. *IEEE Journal of Solid-State Circuits*, **2020**, 55, 3076-3086	5.5	17
153	Artificial intelligence-assisted light control and computational imaging through scattering media. *Journal of Innovative Optical Health Sciences*, **2019**, 12, 1930006	1.2	17
152	Pre-seizure state identified by diffuse optical tomography. *Scientific Reports*, **2014**, 4, 3798	4.9	17
151	Focusing light through scattering media by reinforced hybrid algorithms. *APL Photonics*, **2020**, 5, 016109	5.2	16
150	C-scan photoacoustic microscopy for invivo imaging of Drosophila pupae. *Applied Physics Letters*, **2012**, 101, 013702	3.4	16
149	MEMS Ultrasound Transducers for Endoscopic Photoacoustic Imaging Applications. *Micromachines*, **2020**, 11,	3.3	16
148	A 3.54 nJ/bit-RX, 0.671 nJ/bit-TX Burst Mode Super-Regenerative UWB Transceiver in 0.18-$mu{rm m}$ CMOS. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2014**, 61, 2473-2481	3.9	15
147	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	4.1	15
146	An Artificial Peripheral Neural System Based on Highly Stretchable and Integrated Multifunctional Sensors. *Advanced Functional Materials*, **2021**, 31, 2101107	15.6	15
145	A Low-Power and Highly Linear 14-bit Parallel Sampling TDC With Power Gating and DEM in 65-nm CMOS. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2016**, 24, 1083-1091	2.6	14
144	Convolutional neural network for breast cancer diagnosis using diffuse optical tomography. *Visual Computing for Industry, Biomedicine, and Art*, **2019**, 2, 1	2.9	14
143	Photoacoustic assessment of hemodynamic changes in foot vessels. *Journal of Biophotonics*, **2019**, 12, e201900004	3.1	14
142	Fast noninvasive functional diffuse optical tomography for brain imaging. *Journal of Biophotonics*, **2018**, 11, e201600267	3.1	14
141	Ring Oscillator Based Injection Locked Frequency Divider Using Dual Injection Paths. *IEEE Microwave and Wireless Components Letters*, **2015**, 25, 322-324	2.6	13
140	Towards real-time detection of seizures in awake rats with GPU-accelerated diffuse optical tomography. *Journal of Neuroscience Methods*, **2015**, 240, 28-36	3	13

139	"Guide Star" Assisted Noninvasive Photoacoustic Measurement of Glucose. *ACS Sensors*, **2018**, 3, 2550-2557	9.2	13
138	Concave structure of Cu2O truncated microcubes: PVP assisted {100} facet etching and improved facet-dependent photocatalytic properties. *CrystEngComm*, **2018**, 20, 6580-6588	3.3	13
137	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	2.6	11
136	KNN/PDMS/C-based lead-free piezoelectric composite film for flexible nanogenerator. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 7558-7566	2.1	11
135	L1-optimized linear prediction for light field image compression **2016**,		11
134	Design and Fabrication of a Piezoelectric Micromachined Ultrasonic Transducer Array Based on Ceramic PZT **2018**,		11
133	Micro-Doppler Photoacoustic Effect and Sensing by Ultrasound Radar. *IEEE Journal of Selected Topics in Quantum Electronics*, **2016**, 22, 152-157	3.8	10
132	Photoacoustic imaging of hemodynamic changes in forearm skeletal muscle during cuff occlusion. *Biomedical Optics Express*, **2020**, 11, 4560-4570	3.5	10
131	Photoacoustic imaging for the evaluation of early tumor response to antivascular treatment. *Quantitative Imaging in Medicine and Surgery*, **2019**, 9, 160-170	3.6	10
130	A Ceramic PZT-based PMUT Array for Endoscopic Photoacoustic Imaging. *Journal of Microelectromechanical Systems*, **2020**, 29, 1038-1043	2.5	10
129	Technical Note: Design of a handheld dipole antenna for a compact thermoacoustic imaging system. *Medical Physics*, **2019**, 46, 851-856	4.4	10
128	Photoacoustic Resonance Imaging. *IEEE Journal of Selected Topics in Quantum Electronics*, **2019**, 25, 1-7	3.8	10
127	Electromagnetic?Acoustic Sensing for Biomedical Applications. *Sensors*, **2018**, 18,	3.8	10
126	Haptically Quantifying Young's Modulus of Soft Materials Using a Self-Locked Stretchable Strain Sensor. *Advanced Materials*, **2021**, e2104078	24	10
125	Phase-domain photoacoustic sensing. *Applied Physics Letters*, **2017**, 110, 033701	3.4	9
124	A statistic based time skew calibration method for time-interleaved ADCs **2014**,		9
123	Design of 1.94-GHz CMOS Noise-Cancellation VCO. *IEEE Transactions on Microwave Theory and Techniques*, **2011**, 59, 368-374	4.1	9
122	Quality of experience measurement for light field 3D displays on multilayer LCDs. *Journal of the Society for Information Display*, **2016**, 24, 726-740	2.1	9

121	Photoacoustic induced surface acoustic wave sensor for concurrent opto-mechanical microfluidic sensing of dyes and plasmonic nanoparticles. *RSC Advances*, **2016**, 6, 50238-50244	3.7	9
120	Reducing Acoustic Inhomogeneity Based on Speed of Sound Autofocus in Microwave Induced Thermoacoustic Tomography. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 2206-2214	5	9
119	Bandstop Frequency-Selective Structures Based on Stepped-Impedance Loop Resonators: Design, Analysis, and Measurement. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 1053-1064	4.9	9
118	Effect of sintered temperature on structural and piezoelectric properties of barium titanate ceramic prepared by nano-scale precursors. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 9322-9327	2.1	8
117	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	3.8	8
116	Efficient directional and L1-optimized intra-prediction for light field image compression **2017**,		8
115	Portable photoacoustic system for noninvasive blood temperature measurement **2018**,		8
114	Multifunctional nanoparticles for intracellular drug delivery and photoacoustic imaging of mesenchymal stem cells. *Drug Delivery and Translational Research*, **2019**, 9, 652-666	6.2	7
113	Photoacoustic imaging of acupuncture effect in small animals. *Biomedical Optics Express*, **2015**, 6, 433-42	3.5	7
112	A 16-mW 1-GS/s With 49.6-dB SNDR TI-SAR ADC for Software-Defined Radio in 65-nm CMOS. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2018**, 26, 572-583	2.6	7
111	Ultrasound (US) transducer of higher operating frequency detects photoacoustic (PA) signals due to the contrast in elastic property. *AIP Advances*, **2016**, 6, 025210	1.5	7
110	Computer-aided classification of optical images for diagnosis of osteoarthritis in the finger joints. *Journal of X-Ray Science and Technology*, **2011**, 19, 531-44	2.1	7
109	Moir□reduction method for slanted-lenticular-based quasi-three-dimensional displays. *Optics Communications*, **2016**, 381, 314-322	2	7
108	Facile synthesis of ring-like □Fe2O3 assembly composed of small hematite particles for highly efficient photocatalysis. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 2610-2617	2.1	7
107	Monocrystalline hematite nanostructures: three-dimensionally oriented aggregation synthesis and their comparative visible-light photocatalytic activities. *CrystEngComm*, **2017**, 19, 1926-1932	3.3	6
106	A novel detachable head-mounted device for simultaneous EEG and photoacoustic monitoring of epilepsy in freely moving rats. *Neuroscience Research*, **2015**, 91, 57-62	2.9	6
105	Detecting hemodynamic changes in the foot vessels of diabetic patients by photoacoustic tomography. *Journal of Biophotonics*, **2020**, 13, e202000011	3.1	6
104	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	3.5	6

103	Morphology-Controlled Synthesis and Electrochemical Characteristics of Fe2O3 Nanorods. *Nano*, **2016**, 11, 1630003	1.1	6
102	Synthesis and evolution of Fe2O3 nanorods for enhanced visible-light-driven photocatalysis. *Journal of Materials Science*, **2018**, 53, 15850-15858	4.3	6
101	A High-Speed 2-bit/Cycle SAR ADC With Time-Domain Quantization. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2018**, 26, 2175-2179	2.6	6
100	Adaptive Photoacoustic Sensing Using Matched Filter **2017**, 1, 1-3		6
99	A Statistic-Based Calibration Method for TIADC System. *Mathematical Problems in Engineering*, **2015**, 2015, 1-9	1.1	6
98	A low power interference robust IR-UWB transceiver SoC for WBAN applications **2012**,		6
97	A 600-mA, Fast-Transient Low-Dropout Regulator With Pseudo-ESR Technique in 0.18- mu m CMOS Process. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2020**, 28, 403-413	2.6	6
96	Pre-migration: A General Extension for Photoacoustic Imaging Reconstruction. *IEEE Transactions on Computational Imaging*, **2020**, 6, 1097-1105	4.5	5
95	PEGylated gold nanorods with a broad absorption band in the first near-infrared window for multifunctional photoacoustic imaging.. *RSC Advances*, **2020**, 10, 4561-4567	3.7	5
94	A spatio-temporal multiplexing multi-view display using a lenticular lens and a beam steering screen. *Optics Communications*, **2018**, 420, 168-173	2	5
93	Near-Infrared Optical Imaging Noninvasively Detects Acutely Damaged Muscle. *American Journal of Pathology*, **2016**, 186, 2692-700	5.8	5
92	A Filter Bank Mismatch Calibration Technique for Frequency-Interleaved ADCs. *Circuits, Systems, and Signal Processing*, **2016**, 35, 3847-3862	2.2	5
91	A Multiple Vibration Modes Separation Technique Based on 3*5 Element Energy Harvester Array: Frequency, Bandwidth Adjustment, and Electrical Characterization. *IEEE Sensors Journal*, **2017**, 17, 6378-6384	4	5
90	A Broadband Resonant Noise Matching Technique for Piezoelectric Ultrasound Transducers. *IEEE Sensors Journal*, **2020**, 20, 4290-4299	4	5
89	Thermoacoustic tomography of germinal matrix hemorrhage in neonatal mouse cerebrum. *Journal of X-Ray Science and Technology*, **2020**, 28, 83-93	2.1	5
88	Large-Scale Huygens Metasurfaces for Holographic 3D Near-Eye Displays. *Laser and Photonics Reviews*, **2021**, 15, 2000538	8.3	5
87	Wideband Gain Enhancement of a Dual-Polarized MIMO Vehicular Antenna. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 7897-7907	6.8	5
86	Analysis and Design of Coil-Based Electromagnetic-Induced Thermoacoustic for Rail Internal-Flaw Inspection. *IEEE Transactions on Intelligent Transportation Systems*, **2019**, 20, 2691-2702	6.1	4

85	Technical Note: Anti-phase microwave illumination-based thermoacoustic tomography of in´vivo human finger joints. *Medical Physics*, **2019**, 46, 2363-2369	4.4	4
84	Focused Magnetic Resonance Coupling Coils for Electromagnetic Therapy Applications. *IEEE Transactions on Biomedical Engineering*, **2015**, 62, 2602-2610	5	4
83	Precision Improvement of Power-Efficient Capacitive Senor Readout Circuit Using Multi-Nested Clocks. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2020**, 67, 2578-2587	3.9	4
82	Detection and Monitoring of Osteoporosis in a Rat Model by Thermoacoustic Tomography. *IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology*, **2020**, 4, 234-239	2.8	4
81	A 10-bit 300 MS/s 5.8 mW SAR ADC With Two-Stage Interpolation for PET Imaging. *IEEE Sensors Journal*, **2018**, 18, 2006-2014	4	4
80	A high gain decibel-linear programmable gain amplifier of synthetic aperture radar receiver **2016**,		4
79	A high-impedance dual-mode SAW resonator for ultra low power and high data rate FSK modulator. *Sensors and Actuators A: Physical*, **2014**, 220, 188-193	3.9	4
78	Analysis and design of high performance frequency-interleaved ADC **2013**,		4
77	FMTPen: A Miniaturized Handheld Fluorescence Molecular Tomography Probe for Image-Guided Cancer Surgery. *Photonics*, **2015**, 2, 279-287	2.2	4
76	Assessment of liver function reserve by photoacoustic tomography: a feasibility study. *Biomedical Optics Express*, **2020**, 11, 3985-3995	3.5	4
75	Integrated Wideband Chip-Scale RF Transceivers for Radar Sensing and UWB Communications: A Survey. *IEEE Circuits and Systems Magazine*, **2022**, 22, 40-76	3.2	4
74	A compact and lightweight off-axis lightguide prism in near to eye display. *Optics Communications*, **2017**, 393, 143-151	2	3
73	A 0.92.6 GHz Cognitive Radio Receiver With Spread Spectrum Frequency Synthesizer for Spectrum Sensing. *IEEE Sensors Journal*, **2017**, 17, 7569-7577	4	3
72	Nondestructive Detection and Analysis of Skidding Damage for Bearing Steel 100Cr6 Using Improved Magnetic Barkhausen Noise Technique. *Journal of Nondestructive Evaluation*, **2019**, 38, 1	2.1	3
71	A four-way broadband filtering power divider with improved matching network for X-band application. *Microwave and Optical Technology Letters*, **2019**, 61, 2155-2160	1.2	3
70	Source follower-based high-speed switched capacitor amplifier for pipelined ADCs. *Electronics Letters*, **2015**, 51, 21-23	1.1	3
69	In-vivo hemodynamic imaging of acute prenatal ethanol exposure in fetal brain by photoacoustic tomography. *Journal of Biophotonics*, **2020**, 13, e201960161	3.1	3
68	Multichannel Time Skew Calibration for Time-Interleaved ADCs Using Clock Signal. *Circuits, Systems, and Signal Processing*, **2016**, 35, 2669-2682	2.2	3

67	Targeted Molecular Imaging of Pancreatic Cancer with a Miniature Endoscope. *Applied Sciences (Switzerland)*, **2017**, 7,	2.6	3
66	State-dependent vector hybrid linear and nonlinear ARMA modeling: Theory. *Circuits, Systems, and Signal Processing*, **2001**, 20, 551-574	2.2	3
65	Compact Broadband Four-Port MIMO Antenna for 5G and IoT Applications **2019**,		3
64	Nanomechanical Microfluidic Mixing and Rapid Labeling of Silica Nanoparticles using Allenamide-Thiol Covalent Linkage for Bioimaging. *ACS Applied Materials & Interfaces*, **2019**, 11, 4867-4875	9.5	3
63	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	5.2	3
62	Compact Dual-Polarized Wideband Antenna with Dual-/Single-Band Shifting for Micro Base Station Applications. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	3
61	Wideband Gain Enhancement of High-Isolation Fabry-P□ot Antenna Array with Tandem Circular Parasitic Patches and Radial Gradient PRS. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	3
60	Development of Dual-Frequency PMUT Arrays Based on Thin Ceramic PZT for Endoscopic Photoacoustic Imaging.. *Journal of Microelectromechanical Systems*, **2021**, 30, 770-782	2.5	3
59	Noncontact Thickness Measurement of Cu Film on Silicon Wafer Using Magnetic Resonance Coupling for Stress Free Polishing Application. *IEEE Access*, **2019**, 7, 75330-75341	3.5	2
58	Thermoacoustic elastography: recovery of bulk elastic modulus of heterogeneous media using tomographically measured thermoacoustic measurements. *Quantitative Imaging in Medicine and Surgery*, **2019**, 9, 625-635	3.6	2
57	Live demonstration: A Ku-band FMCW synthetic aperture radar transceiver for micro-UAVs **2016**,		2
56	Surface acoustic wave RF sensing and actuation for lab-on-a-chip platforms **2016**,		2
55	Noninvasive Glucose Measurement by Microwave Biosensor with Accuracy Enhancement **2018**,		2
54	Non-invasive detection of optical changes elicited by seizure activity using time-series analysis of light scattering images in a rat model of generalized seizure. *Journal of Neuroscience Methods*, **2014**, 227, 18-28	3	2
53	A 0.8-□W window SAR ADC with offset cancellation for digital DC□DC converters. *Analog Integrated Circuits and Signal Processing*, **2012**, 70, 133-139	1.2	2
52	Two-layer optimized light field display using depth initialization **2015**,		2
51	Area-detection fibre-optic system for spatially offset Raman spectroscopy and Raman tomography in reflection mode. *Electronics Letters*, **2015**, 51, 1684-1686	1.1	2
50	A chopper stabilized instrumentation amplifier with dual DC cancellation servo loops for biomedicai applications **2012**,		2

49	In vivo Monitoring Hemodynamic Changes in Finger Vessels Using Photoacoustic Tomography **2020** ,		2
48	Enhanced piezoelectric performance of multi-layered flexible polyvinylidene fluorideBaTiO3EGO films for monitoring human body motions. *Journal of Materials Science: Materials in Electronics*,1	2.1	2
47	Wideband Gain Enhancement of an AMC Cavity-Backed Dual-Polarized Antenna. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	2
46	Self-assembled semiconducting polymer based hybrid nanoagents for synergistic tumor treatment. *Biomaterials*, **2021**, 279, 121188	15.6	2
45	Resolution enhancement of near-eye displays by overlapping images. *Optics Communications*, **2020**, 458, 124723	2	2
44	Photoacoustic Microscopy Imaging from Acoustic Resolution to Optical Resolution Enhancement with Deep Learning **2021**,		2
43	A Multi-Frequency pMUT Array Based on Ceramic PZT for Endoscopic Photoacoustic Imaging **2021**,		2
42	Photoacoustic imaging in evaluating early intestinal ischemia injury and reperfusion injury in rat models. *Quantitative Imaging in Medicine and Surgery*, **2021**, 11, 2968-2979	3.6	2
41	Cu2O concave hexapod microcrystals: selective facet etching and highly improved photocatalytic performance. *Journal of Materials Science*, **2019**, 54, 2876-2884	4.3	2
40	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	2
39	Flexible Tri-Band Dual-Polarized MIMO Belt Strap Antenna towards Wearable Applications in Intelligent Internet of Medical Things. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	2
38	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*, **2021**, 1-1	8.9	2
37	A Compressed Sensing Based Miniaturized Photoacoustic Imaging System **2018**,		2
36	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	2.6	2
35	A Piezoelectric MEMS Loud Speaker Based on Ceramic PZT **2019**,		1
34	In Vivo Evaluation of a Miniaturized Fluorescence Molecular Tomography (FMT) Endoscope for Breast Cancer Detection Using Targeted Nanoprobes. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	1
33	Facile Hydrothermal Synthesis of Fe2O3/rGO Composites for Low-Cost Supercapacitors. *Nano*, **2020**, 15, 2050162	1.1	1
32	High Power Angular Radial Staggered Vane Backward Wave Oscillator at W-Band. *IEEE Electron Device Letters*, **2020**, 41, 765-768	4.4	1

31	A Fractional-N Counter-Assisted DPLL With Parallel Sampling ILFD. *IEEE Journal of Solid-State Circuits*, **2016**, 51, 1361-1373	5.5	1
30	Microwave-acoustic correlated imaging and circuit modelling of biological tissues **2013**,		1
29	Osteoarthritis and psoriatic arthritis: findings in three-dimensional biophotonics imaging. *Bio-Medical Materials and Engineering*, **2014**, 24, 3063-71	1	1
28	A broadband, high isolation millimeter-wave CMOS power amplifier using a transformer and transmission line matching topology. *Analog Integrated Circuits and Signal Processing*, **2014**, 81, 537-547	1.2	1
27	Adaptive optimal controller based on genetic algorithm for digital DC-DC converters **2011**,		1
26	An adaptive digital DC-DC converter based on particle swarm optimization **2011**,		1
25	HIGH LINEARITY 8-BIT VCO-BASED CASCADED ΔΣADC FOR DIGITAL DC-DC CONVERTERS. *Journal of Circuits, Systems and Computers*, **2012**, 21, 1250062	0.9	1
24	Photoacoustic phasoscopy for tissue characterization **2012**,		1
23	Decode to channel binary block codes based on neural networks and genetic algorithm. *Applied Artificial Intelligence*, **2001**, 15, 141-159	2.3	1
22	An improved method for quantitative recovery of conductivity using tomographically measured thermoacoustic data. *Journal of X-Ray Science and Technology*, **2020**, 28, 137-145	2.1	1
21	Reflection mode photoacoustic/thermoacoustic dual modality imaging based on a hollow concave array. *Wuli Xuebao/Acta Physica Sinica*, **2021**, 0-0	0.6	1
20	In vivo liver thermoacoustic imaging and demonstration based on localization wire. *Medical Physics*, **2021**, 48, 1608-1615	4.4	1
19	Thermoacoustic assessment of hematocrit changes in human forearms*. *Chinese Physics B*, **2021**, 30, 094302	1.2	1
18	70-2: Projection-based Multi-view Three-dimensional Display with Angular Steering Screen. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 934-937	0.5	0
17	Neuroimaging of depression with diffuse optical tomography during repetitive transcranial magnetic stimulation. *Scientific Reports*, **2021**, 11, 7328	4.9	0
16	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*, **2021**, 1-1	3.5	0
15	Evaluation of Tracheal Stenosis in Rabbits Using Multispectral Optoacoustic Tomography.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 860305	5.8	0
14	A Low Power Pre-Setting Based Sub-Radix-2 Approximation for Multi-bit/cycle SAR ADCs. *IEEE Access*, **2020**, 8, 83062-83069	3.5	

13	Response to Comment on Multiple stimulated emission fluorescence photoacoustic sensing and spectroscopy[Appl. Phys. Lett. 111, 056101 (2017)]. *Applied Physics Letters*, **2017**, 111, 056102	3.4
12	Comparing the magnetic resonant coupling radiofrequency stimulation to the traditional approaches: Ex-vivo tissue voltage measurement and electromagnetic simulation analysis. *AIP Advances*, **2015**, 5, 097110	1.5
11	Diffuse Optical Tomography of Osteoarthritis **2013**, 561	
10	Photoacoustic Tomography **2011**, 337-367	
9	A 28 nm CMOS 10 bit 100 MS/s Asynchronous SAR ADC with Low-Power Switching Procedure and Timing-Protection Scheme. *Electronics (Switzerland)*, **2021**, 10, 2856	2.6
8	Fan-shaped scanning approach for miniaturized photoacoustic tomography. *Journal of Biophotonics* , **2020**, 13, e201960102	3.1
7	High-Accuracy Time-Mode Duty-Cycle-Modulation-Based Temperature Sensor for Energy-Efficient System Applications. *Circuits, Systems, and Signal Processing*, **2016**, 35, 2317-2330	2.2
6	56.2: Invited Paper: Breaking Resolution/Field-of-view Invariant in Near-eye Displays using Multiple Display Panels. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 410-411	0.5
5	42.1: Invited Paper: Design Considerations for Near-eye Displays using a Holographic Display Method. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 520-521	0.5
4	Three-dimensional optical imaging of brain activation during transcranial magnetic stimulation. *Journal of X-Ray Science and Technology*, **2021**, 29, 891-902	2.1
3	Morphology-dependent resonance enhanced nonlinear photoacoustic effect in nanoparticle suspension: a temporal-spatial model.. *Biomedical Optics Express*, **2021**, 12, 7280-7296	3.5
2	Enhancing Finite Element-Based Photoacoustic Tomography by Localized Reconstruction Method. *Photonics*, **2022**, 9, 337	2.2
1	A 164-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**, 1-1	5.5