

# Hojong Choi

## List of Publications by Year in descending order

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66  
papers

945  
citations

430442

18  
h-index

525886

27  
g-index

66  
all docs

66  
docs citations

66  
times ranked

536  
citing authors

#	ARTICLE	IF	CITATIONS
1	Printed Circuit Board Defect Detection Using Deep Learning via A Skip-Connected Convolutional Autoencoder. <i>Sensors</i> , 2021, 21, 4968.	2.1	72
2	An impedance measurement system for piezoelectric array element transducers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 97, 138-144.	2.5	54
3	Deep and Densely Connected Networks for Classification of Diabetic Retinopathy. <i>Diagnostics</i> , 2020, 10, 24.	1.3	53
4	Development of integrated preamplifier for high-frequency ultrasonic transducers and low-power handheld receiver. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 2646-2658.	1.7	39
5	High-efficiency high-voltage class F amplifier for high-frequency wireless ultrasound systems. <i>PLoS ONE</i> , 2021, 16, e0249034.	1.1	35
6	Development of a Multiwavelength Visible-Range-Supported Optoacoustic Ultrasound Instrument Using a Light-Emitting Diode and Ultrasound Transducer. <i>Sensors</i> , 2018, 18, 3324.	2.1	34
7	Power MOSFET Linearizer of a High-Voltage Power Amplifier for High-Frequency Pulse-Echo Instrumentation. <i>Sensors</i> , 2017, 17, 764.	2.1	31
8	Instrumentation for Time-of-Flight Positron Emission Tomography. <i>Nuclear Medicine and Molecular Imaging</i> , 2016, 50, 112-122.	0.6	26
9	Development of a Double-Gauss Lens Based Setup for Optoacoustic Applications. <i>Sensors</i> , 2017, 17, 496.	2.1	23
10	Acoustic Stimulation by Shunt-Diode Pre-Linearizer using Very High Frequency Piezoelectric Transducer for Cancer Therapeutics. <i>Sensors</i> , 2019, 19, 357.	2.1	23
11	Prelinearized Class-B Power Amplifier for Piezoelectric Transducers and Portable Ultrasound Systems. <i>Sensors</i> , 2019, 19, 287.	2.1	23
12	Wireless Ultrasound Surgical System with Enhanced Power and Amplitude Performances. <i>Sensors</i> , 2020, 20, 4165.	2.1	23
13	Bias-Voltage Stabilizer for HVHF Amplifiers in VHF Pulse-Echo Measurement Systems. <i>Sensors</i> , 2017, 17, 2425.	2.1	22
14	Suppression Technique of HeLa Cell Proliferation Using Ultrasonic Power Amplifiers Integrated with a Series-Diode Linearizer. <i>Sensors</i> , 2018, 18, 4248.	2.1	22
15	Class-C Linearized Amplifier for Portable Ultrasound Instruments. <i>Sensors</i> , 2019, 19, 898.	2.1	22
16	Therapeutic Effect Enhancement by Dual-bias High-voltage Circuit of Transmit Amplifier for Immersion Ultrasound Transducer Applications. <i>Sensors</i> , 2018, 18, 4210.	2.1	20
17	A Wideband High-Voltage Power Amplifier Post-Linearizer for Medical Ultrasound Transducers. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 354.	1.3	19
18	Development of Public Key Cryptographic Algorithm Using Matrix Pattern for Tele-Ultrasound Applications. <i>Mathematics</i> , 2019, 7, 752.	1.1	18

#	ARTICLE	IF	CITATIONS
19	Development of a Class-C Power Amplifier with Diode Expander Architecture for Point-of-Care Ultrasound Systems. <i>Micromachines</i> , 2019, 10, 697.	1.4	18
20	Simultaneous Acquisition of Ultrasound and Gamma Signals with a Single-Channel Readout. <i>Sensors</i> , 2021, 21, 1048.	2.1	18
21	A Class-J Power Amplifier Implementation for Ultrasound Device Applications. <i>Sensors</i> , 2020, 20, 2273.	2.1	17
22	A Macro Lens-Based Optical System Design for Phototherapeutic Instrumentation. <i>Sensors</i> , 2019, 19, 5427.	2.1	16
23	A Novel Fisheye-Lens-Based Photoacoustic System. <i>Sensors</i> , 2016, 16, 2185.	2.1	15
24	Development of an Accurate Resonant Frequency Controlled Wire Ultrasound Surgical Instrument. <i>Sensors</i> , 2020, 20, 3059.	2.1	15
25	Wide Bandwidth Class-S Power Amplifiers for Ultrasonic Devices. <i>Sensors</i> , 2020, 20, 290.	2.1	15
26	Stacked Transistor Bias Circuit of Class-B Amplifier for Portable Ultrasound Systems. <i>Sensors</i> , 2019, 19, 5252.	2.1	14
27	A new positron-gamma discriminating phoswich detector based on wavelength discrimination (WLD). <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 946, 162631.	0.7	13
28	Inter-Stage Output Voltage Amplitude Improvement Circuit Integrated with Class-B Transmit Voltage Amplifier for Mobile Ultrasound Machines. <i>Sensors</i> , 2020, 20, 6244.	2.1	13
29	Design of Wide Angle and Large Aperture Optical System with Inner Focus for Compact System Camera Applications. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 179.	1.3	13
30	Power Amplifier Linearizer for High Frequency Medical Ultrasound Applications. <i>Journal of Medical and Biological Engineering</i> , 2015, 35, 226-235.	1.0	12
31	Wide-Supply-Voltage-Range CMOS Bandgap Reference for In Vivo Wireless Power Telemetry. <i>Energies</i> , 2020, 13, 2986.	1.6	12
32	Active echo signals and image optimization techniques via software filter correction of ultrasound system. <i>Applied Acoustics</i> , 2022, 188, 108519.	1.7	12
33	Development of an Estimation Instrument of Acoustic Lens Properties for Medical Ultrasound Transducers. <i>Journal of Healthcare Engineering</i> , 2017, 2017, 1-7.	1.1	11
34	A Novel Focal Length Measurement Method for Center-Obstructed Omni-Directional Reflective Optical Systems. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2350.	1.3	11
35	High-PSRR Wide-Range Supply-Independent CMOS Voltage Reference for Retinal Prosthetic Systems. <i>Electronics (Switzerland)</i> , 2020, 9, 2028.	1.8	10
36	Computation of Analytical Zoom Locus Using Padé Approximation. <i>Mathematics</i> , 2020, 8, 581.	1.1	10

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37	A New Approach to Power Efficiency Improvement of Ultrasonic Transmitters via a Dynamic Bias Technique. <i>Sensors</i> , 2021, 21, 2795.	2.1	10
38	Bipolar-power-transistor-based limiter for high frequency ultrasound imaging systems. <i>Ultrasonics</i> , 2014, 54, 754-758.	2.1	9
39	Development of modified RSA algorithm using fixed mersenne prime numbers for medical ultrasound imaging instrumentation. <i>Computer Assisted Surgery</i> , 2019, 24, 73-78.	0.6	9
40	Chromatic aberration free reflective mirror-based optical system design for multispectral photoacoustic instruments. <i>Technology and Health Care</i> , 2019, 27, 397-406.	0.5	9
41	Post-Voltage-Boost Circuit-Supported Single-Ended Class-B Amplifier for Piezoelectric Transducer Applications. <i>Sensors</i> , 2020, 20, 5412.	2.1	9
42	Combinational light emitting diode-high frequency focused ultrasound treatment for HeLa cell. <i>Computer Assisted Surgery</i> , 2017, 22, 79-85.	0.6	8
43	Novel power MOSFET-based expander for high frequency ultrasound systems. <i>Ultrasonics</i> , 2014, 54, 121-130.	2.1	7
44	Ultrawide-angle optical system design for light-emitting diode-based ophthalmology and dermatology applications. <i>Technology and Health Care</i> , 2019, 27, 133-142.	0.5	7
45	Novel Bandwidth Expander Supported Power Amplifier for Wideband Ultrasound Transducer Devices. <i>Sensors</i> , 2021, 21, 2356.	2.1	7
46	New MOSFET-based expander for high frequency ultrasound systems. , 2012, , .		6
47	Focus-Adjustable Head Mounted Display with Off-Axis System. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7931.	1.3	6
48	New Optical Design Method of Floating Type Collimator for Microscopic Camera Inspection. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6203.	1.3	6
49	Power MOSFETâ€“Diodeâ€“Based Limiter for High-Frequency Ultrasound Systems. <i>Ultrasonic Imaging</i> , 2014, 36, 317-330.	1.4	5
50	A configurable dual-frequency transmit/receive system for acoustic angiography imaging. , 2014, , .		5
51	Optical Design of a Novel Collimator System with a Variable Virtual-Object Distance for an Inspection Instrument of Mobile Phone Camera Optics. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3350.	1.3	5
52	Novel limiter using bipolar power transistors for high frequency ultrasonic transducer applications. , 2011, , .		4
53	Development of a low-cost six-axis alignment instrument for flexible 2D and 3D ultrasonic probes. <i>Technology and Health Care</i> , 2021, 29, 77-84.	0.5	4
54	Ambient Light Rejection Integrated Circuit for Autonomous Adaptation on a Sub-Retinal Prosthetic System. <i>Sensors</i> , 2021, 21, 5638.	2.1	4

#	ARTICLE	IF	CITATIONS
55	Protection Circuits for Very High Frequency Ultrasound Systems. Journal of Medical Systems, 2014, 38, 34.	2.2	3
56	Development of novel adjustable focus head mount display for concurrent image-guided treatment applications. Computer Assisted Surgery, 2017, 22, 163-169.	0.6	3
57	High PSRR Wide Supply Range Dual-Voltage Reference Circuit for Bio-Implantable Applications. Electronics (Switzerland), 2021, 10, 2024.	1.8	3
58	Novel dual-resistor-diode limiter circuit structures for high-voltage reliable ultrasound receiver systems. Technology and Health Care, 2022, 30, 513-520.	0.5	3
59	Bipolar pulse generator for very high frequency (100 MHz) ultrasound applications. , 2013, , .		2
60	High-frequency ultrasound imaging for breast cancer biopsy guidance. Journal of Medical Imaging, 2015, 2, 047001.	0.8	2
61	Micro defect detection on silicon carbide mirror with high frequency ultrasound array scanning. , 2012, , .		1
62	Wideband portable power amplifier design for very high frequency ultrasonic transducer applications. , 2013, , .		1
63	Crossed SMPS MOSFET-based protection circuit for high frequency ultrasound transceivers and transducers. BioMedical Engineering OnLine, 2014, 13, 76.	1.3	1
64	Analog Wideband Receiver Architecture for High Frequency Ultrasound Instrumentation. Journal of Medical Imaging and Health Informatics, 2016, 6, 47-52.	0.2	1
65	Fisheye lens design for solar-powered mobile ultrasound devices. Technology and Health Care, 2022, 30, 243-250.	0.5	1
66	Parallel dynamic subcarrier and time allocation protocol for long-reach OFDMA-PONs. , 2015, , .		0