## Jin-Taek Kim

## List of Publications by Year in descending order

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304743 345221 72 1,422 22 36 h-index citations g-index papers 78 78 78 1274 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Collapse pressure measurement of single hollow glass microsphere using single-beam acoustic tweezer. Ultrasonics Sonochemistry, 2022, 82, 105844.	8.2	5
2	Bi-modal near-infrared fluorescence and ultrasound imaging via a transparent ultrasound transducer for sentinel lymph node localization. Optics Letters, 2022, 47, 393.	3.3	7
3	High-Attenuation Backing Layer for Miniaturized Ultrasound Imaging Transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1960-1969.	3.0	7
4	High-resolution, high-speed photoacoustic microscopy and photoplethysmography for clinical applications in human fingers. , 2022, , .		0
5	Automated estimation of cancer cell deformability with machine learning and acoustic trapping. Scientific Reports, 2022, 12, 6891.	3.3	3
6	Deep learning acceleration of multiscale superresolution localization photoacoustic imaging. Light: Science and Applications, 2022, 11, 131.	16.6	52
7	Fully integrated photoacoustic microscopy and photoplethysmography of human in vivo. Photoacoustics, 2022, 27, 100374.	7.8	31
8	Versatile Optical and Ultrasound Imaging Platforms using Transparent Ultrasound Transducers. , 2022, , .		0
9	Lead-Free Piezoelectric Composite With Lithium Niobate and Barium Titanate Fabricated by Interdigital Pair Bonding Technique. IEEE Access, 2021, 9, 85894-85902.	4.2	2
10	Continuous blood flow monitoring using patch-type array transducer and portable ultrasound imaging system. , $2021,  ,  .$		0
11	Interinstitutional Research Team Formation Based on Bibliographic Network Embedding. Mobile Information Systems, 2021, 2021, 1-12.	0.6	O
12	Thermal Ablation and High-Resolution Imaging Using a Back-to-Back (BTB) Dual-Mode Ultrasonic Transducer: In Vivo Results. Sensors, 2021, 21, 1580.	3.8	7
13	Frequency-dependent calcium dynamics in ultrasound mechanotransduction. , 2021, , .		O
14	Synthetic Aperture Imaging Using High-Frequency Convex Array for Ophthalmic Ultrasound Applications. Sensors, 2021, 21, 2275.	3.8	7
15	Seamlessly integrated multi-modal imaging system through transparent ultrasound transducer in vivo. , 2021, , .		1
16	Quadruple ultrasound, photoacoustic, optical coherence, and fluorescence fusion imaging with a transparent ultrasound transducer. Proceedings of the National Academy of Sciences of the United States of America, 2021, $118$ , .	7.1	94
17	A photoacoustic finder fully integrated with a solid-state dye laser and transparent ultrasound transducer. Photoacoustics, 2021, 23, 100290.	7.8	39
18	Detection of micro inclusions in steel sheets using high-frequency ultrasound speckle analysis. Scientific Reports, 2021, 11, 20416.	3.3	3

#	Article	IF	CITATIONS
19	Acoustic Power Transfer Using Self-Focused Transducers for Miniaturized Implantable Neurostimulators. IEEE Access, 2021, 9, 153850-153862.	4.2	8
20	A One-Sided Acoustic Trap for Cell Immobilization Using 30-MHz Array Transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 167-172.	3.0	14
21	Detection of Micro-scaled Flaws in the Steel Sheet using Line-focused High-Frequency Ultrasound Transducer. , 2020, , .		0
22	Rotating dual-mode ultrasonic transducer for high intensity ultrasound treatment and high-resolution imaging. , 2020, , .		0
23	Classification of Breast Cancer Cells Using the Integration of High-Frequency Single-Beam Acoustic Tweezers and Convolutional Neural Networks. Cancers, 2020, 12, 1212.	3.7	12
24	Investigation of cell mechanics using single-beam acoustic tweezers as a versatile tool for the diagnosis and treatment of highly invasive breast cancer cell lines: an in vitro study. Microsystems and Nanoengineering, 2020, 6, 39.	7.0	20
25	Versatile Single-Element Ultrasound Imaging Platform using a Water-Proofed MEMS Scanner for Animals and Humans. Scientific Reports, 2020, 10, 6544.	3.3	16
26	Seamlessly integrated optical and acoustical imaging systems through transparent ultrasonic transducer. , 2020, , .		4
27	Lead-free Piezoelectric Composite with Configurable Material Properties by Interdigital Pair-bonding. , 2020, , .		0
28	Precise control of ultrasound stimulation/treatment by a high-frequency focused ring transducer. , 2020, , .		0
29	Single-element Ultrasound Imaging System based on Mirror Scanning. , 2020, , .		3
30	Bio-orthogonal Supramolecular Latching inside Live Animals and Its Application for in Vivo Cancer Imaging. ACS Applied Materials & Samp; Interfaces, 2019, 11, 43920-43927.	8.0	23
31	Fabrication and Characterization of a Miniaturized 15-MHz Side-Looking Phased-Array Transducer Catheter. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1079-1092.	3.0	14
32	Real-Time Photoacoustic Thermometry Combined With Clinical Ultrasound Imaging and High-Intensity Focused Ultrasound. IEEE Transactions on Biomedical Engineering, 2019, 66, 3330-3338.	4.2	54
33	Sub-wavelength convertible Bessel-beam and Gaussian-beam photoacoustic microscope in reflection-mode for in-vivo application. , 2019, , .		0
34	High Frequency Ultrasonic Levitation of Red Blood Cells Aggregation. , 2018, , .		2
35	Evaluation method for acoustic trapping performance by tracking motion of trapped microparticle. Japanese Journal of Applied Physics, 2018, 57, 057202.	1.5	11
36	CMOS High-Voltage Analog 1–64 Multiplexer/Demultiplexer for Integrated Ultrasound Guided Breast Needle Biopsy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1334-1345.	3.0	9

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37	Forward-looking 30-MHz phased-array transducer for peripheral intravascular imaging. Sensors and Actuators A: Physical, 2018, 280, 145-163.	4.1	24
38	Development of a Low-Complexity, Cost-Effective Digital Beamformer Architecture for High-Frequency Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1002-1008.	3.0	9
39	Notice of Removal: Handheld optical-resolution photoacoustic microscopy probe for preclinical application., 2017,,.		O
40	Direct and sustained intracellular delivery of exogenous molecules using acoustic-transfection with high frequency ultrasound. Scientific Reports, 2016, 6, 20477.	3.3	44
41	Impedance matching network for high frequency ultrasonic transducer for cellular applications. Ultrasonics, 2016, 65, 258-267.	3.9	40
42	A sidelobe suppressing near-field beamforming approach for ultrasound array imaging. Journal of the Acoustical Society of America, 2015, 137, 2785-2790.	1.1	24
43	Dual-element needle transducer for intravascular ultrasound imaging. Journal of Medical Imaging, 2015, 2, 027001.	1.5	23
44	High-frequency ultrasound imaging for breast cancer biopsy guidance. Journal of Medical Imaging, 2015, 2, 047001.	1.5	2
45	Angled-focused 45MHz PMN-PT single element transducer for intravascular ultrasound imaging. Sensors and Actuators A: Physical, 2015, 228, 16-22.	4.1	31
46	High-frequency dual mode pulsed wave Doppler imaging for monitoring the functional regeneration of adult zebrafish hearts. Journal of the Royal Society Interface, 2015, 12, 20141154.	3.4	16
47	Non-contact acoustic radiation force impulse microscopy via photoacoustic detection for probing breast cancer cell mechanics. Biomedical Optics Express, 2015, 6, 11.	2.9	9
48	Fabrication and characterization of a 20 MHz microlinear phased array transducer for intervention guidance. , 2014, , .		3
49	Multi-particle trapping and manipulation by a high-frequency array transducer. Applied Physics Letters, 2014, 105, 214103.	3.3	33
50	Non-contact High-Frequency Ultrasound Microbeam Stimulation for Studying Mechanotransduction in Human Umbilical Vein Endothelial Cells. Ultrasound in Medicine and Biology, 2014, 40, 2172-2182.	1.5	32
51	Cell membrane deformation induced by a fibronectin-coated polystyrene microbead in a 200-MHz acoustic trap. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 399-406.	3.0	29
52	Investigating contactless high frequency ultrasound microbeam stimulation for determination of invasion potential of breast cancer cells. Biotechnology and Bioengineering, 2013, 110, 2697-2705.	3.3	48
53	Bipolar pulse generator for very high frequency (> 100 MHz) ultrasound applications. , 2013, , .		2
54	Low cross-talk kerfless annular array ultrasound transducers using 1& $\pm$ x2013; 3 piezocomposites with pseudo-random pillars. , 2012, , .		3

#	Article	IF	Citations
55	High-frequency ultrasound microbeam induced calcium elevations in cancer cells: Discrimination between invasive and non-invasive breast cancer cells. , $2012$ , , .		3
56	Dual gate pulsed wave Doppler imaging for investigating cardiovascular dysfunctions. , 2012, , .		0
57	Microfluidic droplet sorting with a high frequency ultrasound beam. Lab on A Chip, 2012, 12, 2736.	6.0	47
58	A high-frequency annular-array transducer using an interdigital bonded 1-3 composite. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 206-214.	3.0	30
59	Targeted cell immobilization by ultrasound microbeam. Biotechnology and Bioengineering, 2011, 108, 1643-1650.	3.3	71
60	Real time acoustic sensing of flowing microdroplets in a microfluidic device., 2011,,.		0
61	Two-dimensional cell trapping by ultrasound microbeam. , 2011, , .		1
62	Frequency compounded imaging with a high-frequency dual element transducer. Ultrasonics, 2010, 50, 453-457.	3.9	34
63	Transverse Acoustic Trapping Using a Gaussian Focused Ultrasound. Ultrasound in Medicine and Biology, 2010, 36, 350-355.	1.5	58
64	High-Resolution Photoacoustic Imaging of Ocular Tissues. Ultrasound in Medicine and Biology, 2010, 36, 733-742.	1.5	76
65	Characterization and evaluation of high frequency convex array transducers. , 2010, , .		4
66	Fabrication of 20 MHz convex array transducers for high frequency ophthalmic imaging. , 2009, , .		10
67	High-resolution photoacoustic imaging with focused laser and ultrasonic beams. Applied Physics Letters, 2009, 94, 33902.	3.3	29
68	Single beam acoustic trapping. Applied Physics Letters, 2009, 95, 73701.	3.3	199
69	Development of high frequency annular array ultrasound transducers using interdigital bonded composites., 2009,,.		1
70	10.1063/1.3206910.1., 2009, , .		4
71	20 MHz/40 MHz dual element transducers for high frequency harmonic imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2683-2691.	3.0	33
72	10F-4 Self-Focused 1-3 Composite LiNbO3 Single Element Transducers for High Frequency HIFU Applications. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	2