

Jeeun Kang

List of Publications by Year in descending order

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67
papers

954
citations

516710

16
h-index

501196

28
g-index

75
all docs

75
docs citations

75
times ranked

1030
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoacoustic assessment of the fetal brain and placenta as a method of non-invasive antepartum and intrapartum monitoring. <i>Experimental Neurology</i> , 2022, 347, 113898.	4.1	7
2	Editorial: Advances in Optics and Acoustics Towards Translational Functional Neuroimaging. <i>Frontiers in Neuroscience</i> , 2022, 16, 868402.	2.8	0
3	Functional guidance of nerve graft surgery using dual-modal photoacoustic and fluorescence imaging of voltage-sensitive dye: ex vivo proof-of-concept study. , 2022, , .		1
4	System-level optimization in spectroscopic photoacoustic imaging of prostate cancer. <i>Photoacoustics</i> , 2022, 27, 100378.	7.8	10
5	Molecular Radiative Energy Shifts under Strong Oscillating Fields. <i>Small</i> , 2021, 17, 2007244.	10.0	2
6	Dual contrast agents for fluorescence and photoacoustic imaging: evaluation in a murine model of prostate cancer. <i>Nanoscale</i> , 2021, 13, 9217-9228.	5.6	19
7	Optimization of Near-Infrared Fluorescence Voltage-Sensitive Dye Imaging for Neuronal Activity Monitoring in the Rodent Brain. <i>Frontiers in Neuroscience</i> , 2021, 15, 742405.	2.8	2
8	Iterative Fluence Compensation and Spectral Unmixing for Spectroscopic Photoacoustic Imaging. , 2021, , .		2
9	Transcranial photoacoustic characterization of neurovascular physiology during early-stage photothrombotic stroke in neonatal piglets in vivo. <i>Journal of Neural Engineering</i> , 2021, 18, 065001.	3.5	10
10	Efficient Parallel-Beamforming Based on Shared FIFO for Ultra-Compact Ultrasound Imaging Systems. <i>IEEE Access</i> , 2020, 8, 80490-80501.	4.2	7
11	Transcranial photoacoustic imaging of NMDA-evoked focal circuit dynamics in the rat hippocampus. <i>Journal of Neural Engineering</i> , 2020, 17, 025001.	3.5	21
12	An economic photoacoustic imaging platform using automatic laser synchronization and inverse beamforming. <i>Ultrasonics</i> , 2020, 103, 106098.	3.9	8
13	Real-time, functional intra-operative localization of rat cavernous nerve network using near-infrared cyanine voltage-sensitive dye imaging. <i>Scientific Reports</i> , 2020, 10, 6618.	3.3	6
14	Ultrasound Signal Detection with Multi-bounce Laser Microphone. , 2020, 2020, .		1
15	94: Noninvasive instantaneous measurement of neonatal brain oxygenation with light emitting diodes to detect hypoxic-ischemic encephalopathy. <i>American Journal of Obstetrics and Gynecology</i> , 2020, 222, S77-S78.	1.3	0
16	Resonance-Based Frequency-Selective Amplification for Increased Photoacoustic Imaging Sensitivity. <i>ACS Photonics</i> , 2019, 6, 2268-2276.	6.6	9
17	Transcranial Recording of Electrophysiological Neural Activity in the Rodent Brain in vivo Using Functional Photoacoustic Imaging of Near-Infrared Voltage-Sensitive Dye. <i>Frontiers in Neuroscience</i> , 2019, 13, 579.	2.8	40
18	A Pseudo-Dynamic Delay Calculation Using Optimal Zone Segmentation for Ultra-Compact Ultrasound Imaging Systems. <i>Electronics (Switzerland)</i> , 2019, 8, 242.	3.1	4

#	ARTICLE	IF	CITATIONS
19	Prostate-specific membrane antigen-targeted photoacoustic imaging of prostate cancer <i>in vivo</i> . <i>Journal of Biophotonics</i> , 2018, 11, e201800021.	2.3	50
20	Photoacoustic Generation in Polymer Matrix Nanocomposite Films. , 2018, , .		0
21	Validation of noninvasive photoacoustic measurements of sagittal sinus oxyhemoglobin saturation in hypoxic neonatal piglets. <i>Journal of Applied Physiology</i> , 2018, 125, 983-989.	2.5	34
22	Voltage-sensitive dye delivery through the blood brain barrier using adenosine receptor agonist regadenoson. <i>Biomedical Optics Express</i> , 2018, 9, 3915.	2.9	17
23	Photoacoustics as a New Modality for Recording Membrane Potential Changes. <i>Biophysical Journal</i> , 2017, 112, 285a.	0.5	0
24	Listening to membrane potential: photoacoustic voltage-sensitive dye recording. <i>Journal of Biomedical Optics</i> , 2017, 22, 045006.	2.6	38
25	Real-time sentinel lymph node biopsy guidance using combined ultrasound, photoacoustic, fluorescence imaging: in vivo proof-of-principle and validation with nodal obstruction. <i>Scientific Reports</i> , 2017, 7, 45008.	3.3	47
26	Recording membrane potential changes through photoacoustic voltage sensitive dye. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
27	Notice of Removal: In vivo photoacoustic quantification of brain tissue oxygenation for neonatal piglet graded ischemia model using microsphere administration. , 2017, , .		0
28	Notice of Removal: Real-time recording of neuronal voltage membrane variation during seizure using transcranial photoacoustic voltage-sensitive dye imaging. , 2017, , .		0
29	Photoacoustic Imaging for Differential Diagnosis of Benign Polyps versus Malignant Polyps of the Gallbladder: A Preliminary Study. <i>Korean Journal of Radiology</i> , 2017, 18, 821.	3.4	10
30	Notice of Removal: Real-time intra-operative guidance using combined photoacoustic and pulsed fluorescence imaging for robot-assisted surgical operation. , 2017, , .		1
31	Theragnostic Nanodroplets for Photoacoustic and Ultrasound Signal Amplification and Optically Triggered Vaporization-Induced Drug Release. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 7978-7985.	0.9	2
32	Toward high-speed transcranial photoacoustic imaging using compact near-infrared pulsed LED illumination system. , 2017, , .		4
33	Initial proof-of-concept of photoacoustic cell stimulation approach: preliminary in vitro study. , 2017, , .		0
34	pH-Induced aggregated melanin nanoparticles for photoacoustic signal amplification. <i>Nanoscale</i> , 2016, 8, 14448-14456.	5.6	73
35	A new post-phase rotation based dynamic receive beamforming architecture for smartphone-based wireless ultrasound imaging. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
36	Clue to Understanding the Janus Behavior of Eumelanin: Investigating the Relationship between Hierarchical Assembly Structure of Eumelanin and Its Photophysical Properties. <i>Biomacromolecules</i> , 2016, 17, 2860-2872.	5.4	24

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37	A System-on-Chip Solution for Point-of-Care Ultrasound Imaging Systems: Architecture and ASIC Implementation. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 412-423.	4.0	51
38	An optimized plane wave synthetic focusing imaging for high-resolution convex array imaging. , 2015, , .		0
39	Photoacoustic imaging of breast microcalcifications: A validation study with 3-dimensional <i>in vivo</i> data and spectrophotometric measurement. Journal of Biophotonics, 2015, 8, 71-80.	2.3	42
40	Generalised dynamic decimation method using polyphase MACs for ultrasound imaging. Electronics Letters, 2015, 51, 451-452.	1.0	4
41	The study of photoacoustic imaging without nanoparticles as a contrast agent for anti-body drug monitoring. Proceedings of SPIE, 2015, , .	0.8	1
42	Smartphone-based portable ultrasound imaging system: Prototype implementation and evaluation. , 2015, , .		29
43	Multifunctional theranostic contrast agent for photoacoustics- and ultrasound-based tumor diagnosis and ultrasound-stimulated local tumor therapy. Journal of Controlled Release, 2015, 218, 63-71.	9.9	51
44	6-DOF free-hand navigation interface for volumetric 3-dimensional ultrasound imaging: Preliminary results. , 2015, , .		1
45	A prototype hand-held tri-modal instrument for <i>in vivo</i> ultrasound, photoacoustic, and fluorescence imaging. Review of Scientific Instruments, 2015, 86, 034901.	1.3	17
46	Color Doppler imaging on a smartphone-based portable US system: Preliminary study. , 2015, , .		8
47	Multimodality Optical Nanoparticles, Microbubbles and Instrumentation for Cancer Theranostics. , 2015, , .		0
48	Ex Vivo Estimation of Photoacoustic Imaging for Detecting Thyroid Microcalcifications. PLoS ONE, 2014, 9, e113358.	2.5	13
49	A new smart probe system for a tablet PC-based point-of-care ultrasound imaging system: Feasibility study. , 2014, , .		9
50	Thermal therapeutic method for selective treatment of deep-lying tissue by combining laser and high-intensity focused ultrasound energy. Optics Letters, 2014, 39, 2806.	3.3	14
51	Phantom and <i>in vivo</i> evaluation of sound speed estimation methods: Preliminary results. , 2014, , .		5
52	A new nonlinear zone-based beamforming method for point-of-care ultrasound: Algorithms and implementation. , 2014, , .		1
53	Enhancement of photoacoustic signal using a novel light illumination improvement device: <i>In vivo</i> feasibility animal study. , 2014, , .		2
54	Photoacoustic Imaging of Breast Microcalcifications: A Preliminary Study with 8-Gauge Core-Biopsied Breast Specimens. PLoS ONE, 2014, 9, e105878.	2.5	20

#	ARTICLE	IF	CITATIONS
55	Image quality improvement based on inter-frame motion compensation for photoacoustic imaging: A preliminary study. , 2013, , .		1
56	Adaptive sound speed correction for abdominal ultrasonography: preliminary results. , 2013, , .		0
57	Enhancement of photoacoustic image quality by sound speed correction: ex vivo evaluation. Optics Express, 2012, 20, 3082.	3.4	65
58	Real-time realization of adaptive dynamic quadrature demodulation on a gpu-based ultrasound imaging system. , 2012, , .		2
59	Efficient and stable beamforming architecture for high frequency ultrasound imaging systems. , 2012, , .		1
60	A Point-of-care diagnosis system for emergency ultrasound: Prototype system implementation. , 2012, , .		2
61	Photoacoustic imaging of breast microcalcifications: A validation study with 3-dimensional ex vivo data. , 2012, , .		2
62	New adaptive beamforming with spatially-smoothed coherence factor: simulation and ex vivo experiment results. , 2012, , .		0
63	Evaluation of a fractional filter-based receive beamforming method for ultrasound color Doppler imaging. , 2012, , .		0
64	A single FPGA-based portable ultrasound imaging system for point-of-care applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1386-1394.	3.0	106
65	The new efficient multi-beamforming method based on multiple-access register block on a post-fractional filtering architecture. , 2011, , .		5
66	Optimal laser wavelength for photoacoustic imaging of breast microcalcifications. Applied Physics Letters, 2011, 99, 153702.	3.3	33
67	Time-sharing bilinear delay interpolation for ultrasound dynamic receive beamformer. Electronics Letters, 2011, 47, 89.	1.0	11