

Jeeun Kang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/803132/publications.pdf>

Version: 2024-02-01

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	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
2	pH-Induced aggregated melanin nanoparticles for photoacoustic signal amplification. Nanoscale, 2016, 8, 14448-14456.	5.6	73
3	Enhancement of photoacoustic image quality by sound speed correction: ex vivo evaluation. Optics Express, 2012, 20, 3082.	3.4	65
4	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
5	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
6	Prostate-specific membrane antigen-targeted photoacoustic imaging of prostate cancer <i>in vivo</i> . Journal of Biophotonics, 2018, 11, e201800021.	2.3	50
7	Real-time sentinel lymph node biopsy guidance using combined ultrasound, photoacoustic, fluorescence imaging: in vivo proof-of-principle and validation with nodal obstruction. Scientific Reports, 2017, 7, 45008.	3.3	47
8	Photoacoustic imaging of breast microcalcifications: A validation study with 3-dimensional <i>ex vivo</i> data and spectrophotometric measurement. Journal of Biophotonics, 2015, 8, 71-80.	2.3	42
9	Transcranial Recording of Electrophysiological Neural Activity in the Rodent Brain <i>in vivo</i> Using Functional Photoacoustic Imaging of Near-Infrared Voltage-Sensitive Dye. Frontiers in Neuroscience, 2019, 13, 579.	2.8	40
10	Listening to membrane potential: photoacoustic voltage-sensitive dye recording. Journal of Biomedical Optics, 2017, 22, 045006.	2.6	38
11	Validation of noninvasive photoacoustic measurements of sagittal sinus oxyhemoglobin saturation in hypoxic neonatal piglets. Journal of Applied Physiology, 2018, 125, 983-989.	2.5	34
12	Optimal laser wavelength for photoacoustic imaging of breast microcalcifications. Applied Physics Letters, 2011, 99, 153702.	3.3	33
13	Smartphone-based portable ultrasound imaging system: Prototype implementation and evaluation. , 2015, , .		29
14	Clue to Understanding the Janus Behavior of Eumelanin: Investigating the Relationship between Hierarchical Assembly Structure of Eumelanin and Its Photophysical Properties. Biomacromolecules, 2016, 17, 2860-2872.	5.4	24
15	Transcranial photoacoustic imaging of NMDA-evoked focal circuit dynamics in the rat hippocampus. Journal of Neural Engineering, 2020, 17, 025001.	3.5	21
16	Photoacoustic Imaging of Breast Microcalcifications: A Preliminary Study with 8-Gauge Core-Biopsied Breast Specimens. PLoS ONE, 2014, 9, e105878.	2.5	20
17	Dual contrast agents for fluorescence and photoacoustic imaging: evaluation in a murine model of prostate cancer. Nanoscale, 2021, 13, 9217-9228.	5.6	19
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Thermal therapeutic method for selective treatment of deep-lying tissue by combining laser and high-intensity focused ultrasound energy. <i>Optics Letters</i> , 2014, 39, 2806.	3.3	14
21	Ex Vivo Estimation of Photoacoustic Imaging for Detecting Thyroid Microcalcifications. <i>PLoS ONE</i> , 2014, 9, e113358.	2.5	13
22	Time-sharing bilinear delay interpolation for ultrasound dynamic receive beamformer. <i>Electronics Letters</i> , 2011, 47, 89.	1.0	11
23	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
24	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
25	System-level optimization in spectroscopic photoacoustic imaging of prostate cancer. <i>Photoacoustics</i> , 2022, 27, 100378.	7.8	10
26	A new smart probe system for a tablet PC-based point-of-care ultrasound imaging system: Feasibility study. , 2014, , .		9
27	Resonance-Based Frequency-Selective Amplification for Increased Photoacoustic Imaging Sensitivity. <i>ACS Photonics</i> , 2019, 6, 2268-2276.	6.6	9
28	Color Doppler imaging on a smartphone-based portable US system: Preliminary study. , 2015, , .		8
29	An economic photoacoustic imaging platform using automatic laser synchronization and inverse beamforming. <i>Ultrasonics</i> , 2020, 103, 106098.	3.9	8
30	Efficient Parallel-Beamforming Based on Shared FIFO for Ultra-Compact Ultrasound Imaging Systems. <i>IEEE Access</i> , 2020, 8, 80490-80501.	4.2	7
31	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
32	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
33	The new efficient multi-beamforming method based on multiple-access register block on a post-fractional filtering architecture. , 2011, , .		5
34	Phantom and in vivo evaluation of sound speed estimation methods: Preliminary results. , 2014, , .		5
35	Generalised dynamic decimation method using polyphase MACs for ultrasound imaging. <i>Electronics Letters</i> , 2015, 51, 451-452.	1.0	4
36	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
37	Toward high-speed transcranial photoacoustic imaging using compact near-infrared pulsed LED illumination system. , 2017, , .		4
38	Real-time realization of adaptive dynamic quadrature demodulation on a gpu-based ultrasound imaging system. , 2012, , .		2
39	A Point-of-care diagnosis system for emergency ultrasound: Prototype system implementation. , 2012, , .		2
40	Photoacoustic imaging of breast microcalcifications: A validation study with 3-dimensional ex vivo data. , 2012, , .		2
41	Enhancement of photoacoustic signal using a novel light illumination improvement device: In vivo feasibility animal study. , 2014, , .		2
42	Theranostic Nanodroplets for Photoacoustic and Ultrasound Signal Amplification and Optically Triggered Vaporization-Induced Drug Release. Journal of Nanoscience and Nanotechnology, 2017, 17, 7978-7985.	0.9	2
43	Molecular Radiative Energy Shifts under Strong Oscillating Fields. Small, 2021, 17, 2007244.	10.0	2
44	Optimization of Near-Infrared Fluorescence Voltage-Sensitive Dye Imaging for Neuronal Activity Monitoring in the Rodent Brain. Frontiers in Neuroscience, 2021, 15, 742405.	2.8	2
45	Iterative Fluence Compensation and Spectral Unmixing for Spectroscopic Photoacoustic Imaging. , 2021, , .		2
46	Efficient and stable beamforming architecture for high frequency ultrasound imaging systems. , 2012, , .		1
47	Image quality improvement based on inter-frame motion compensation for photoacoustic imaging: A preliminary study. , 2013, , .		1
48	A new nonlinear zone-based beamforming method for point-of-care ultrasound: Algorithms and implementation. , 2014, , .		1
49	The study of photoacoustic imaging without nanoparticles as a contrast agent for anti-body drug monitoring. Proceedings of SPIE, 2015, , .	0.8	1
50	6-DOF free-hand navigation interface for volumetric 3-dimensional ultrasound imaging: Preliminary results. , 2015, , .		1
51	A new post-phase rotation based dynamic receive beamforming architecture for smartphone-based wireless ultrasound imaging. Proceedings of SPIE, 2016, , .	0.8	1
52	Recording membrane potential changes through photoacoustic voltage sensitive dye. Proceedings of SPIE, 2017, , .	0.8	1
53	Notice of Removal: Real-time intra-operative guidance using combined photoacoustic and pulsed fluorescence imaging for robot-assisted surgical operation. , 2017, , .		1
54	Ultrasound Signal Detection with Multi-bounce Laser Microphone. , 2020, 2020, .		1

#	ARTICLE	IF	CITATIONS
55	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
56	New adaptive beamforming with spatially-smoothed coherence factor: simulation and ex vivo experiment results. , 2012, , .		0
57	Evaluation of a fractional filter-based receive beamforming method for ultrasound color Doppler imaging. , 2012, , .		0
58	Adaptive sound speed correction for abdominal ultrasonography: preliminary results. , 2013, , .		0
59	An optimized plane wave synthetic focusing imaging for high-resolution convex array imaging. , 2015, , .		0
60	Photoacoustics as a New Modality for Recording Membrane Potential Changes. Biophysical Journal, 2017, 112, 285a.	0.5	0
61	Notice of Removal: In vivo photoacoustic quantification of brain tissue oxygenation for neonatal piglet graded ischemia model using microsphere administration. , 2017, , .		0
62	Notice of Removal: Real-time recording of neuronal voltage membrane variation during seizure using transcranial photoacoustic voltage-sensitive dye imaging. , 2017, , .		0
63	Photoacoustic Generation in Polymer Matrix Nanocomposite Films. , 2018, , .		0
64	Multimodality Optical Nanoparticles, Microbubbles and Instrumentation for Cancer Theranostics. , 2015, , .		0
65	Initial proof-of-concept of photoacoustic cell stimulation approach: preliminary in vitro study. , 2017, , .		0
66	94: Noninvasive instantaneous measurement of neonatal brain oxygenation with light emitting diodes to detect hypoxic-ischemic encephalopathy. American Journal of Obstetrics and Gynecology, 2020, 222, S77-S78.	1.3	0
67	Editorial: Advances in Optics and Acoustics Towards Translational Functional Neuroimaging. Frontiers in Neuroscience, 2022, 16, 868402.	2.8	0