

Siyu Liu

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

640
citations

623188

14
h-index

610482

24
g-index

47
all docs

47
docs citations

47
times ranked

652
citing authors

#	ARTICLE	IF	CITATIONS
1	Single laser pulse generates dual photoacoustic signals for differential contrast photoacoustic imaging. <i>Scientific Reports</i> , 2017, 7, 626.	1.6	71
2	Noninvasive Electromagnetic Wave Sensing of Glucose. <i>Sensors</i> , 2019, 19, 1151.	2.1	59
3	An Artificial Peripheral Neural System Based on Highly Stretchable and Integrated Multifunctional Sensors. <i>Advanced Functional Materials</i> , 2021, 31, 2101107.	7.8	46
4	Rationally encapsulated gold nanorods improving both linear and nonlinear photoacoustic imaging contrast in vivo. <i>Nanoscale</i> , 2017, 9, 79-86.	2.8	41
5	An analytical study of photoacoustic and thermoacoustic generation efficiency towards contrast agent and film design optimization. <i>Photoacoustics</i> , 2017, 7, 1-11.	4.4	35
6	Handheld Photoacoustic Imager for Theranostics in 3D. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2037-2046.	5.4	32
7	Remarkable In Vivo Nonlinear Photoacoustic Imaging Based on Near-Infrared Organic Dyes. <i>Small</i> , 2016, 12, 5239-5244.	5.2	31
8	Noninvasive photoacoustic measurement of glucose by data fusion. <i>Analyst</i> , The, 2017, 142, 2892-2896.	1.7	26
9	Fast and High-Resolution Three-Dimensional Hybrid-Domain Photoacoustic Imaging Incorporating Analytical-Focused Transducer Beam Amplitude. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2926-2936.	5.4	24
10	“Guide Star”-Assisted Noninvasive Photoacoustic Measurement of Glucose. <i>ACS Sensors</i> , 2018, 3, 2550-2557.	4.0	21
11	GPU-accelerated two dimensional synthetic aperture focusing for photoacoustic microscopy. <i>APL Photonics</i> , 2018, 3, .	3.0	20
12	Frequency Domain Based Virtual Detector for Heterogeneous Media in Photoacoustic Imaging. <i>IEEE Transactions on Computational Imaging</i> , 2020, 6, 569-578.	2.6	19
13	Electromagnetic-Acoustic Sensing for Biomedical Applications. <i>Sensors</i> , 2018, 18, 3203.	2.1	17
14	Toward Wearable Healthcare: A Miniaturized 3D Imager With Coherent Frequency-Domain Photoacoustics. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019, 13, 1417-1424.	2.7	17
15	Photoacoustic Resonance Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-7.	1.9	15
16	Rapid Three-Dimensional Photoacoustic Imaging Reconstruction for Irregularly Layered Heterogeneous Media. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1041-1050.	5.4	14
17	A Broadband Resonant Noise Matching Technique for Piezoelectric Ultrasound Transducers. <i>IEEE Sensors Journal</i> , 2020, 20, 4290-4299.	2.4	13
18	Phase-domain photoacoustic sensing. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	12

#	ARTICLE	IF	CITATIONS
19	Adaptive Photoacoustic Sensing Using Matched Filter. , 2017, 1, 1-3.		12
20	A Single Sensor Dual-Modality Photoacoustic Fusion Imaging for Compensation of Light Fluence Variation. IEEE Transactions on Biomedical Engineering, 2019, 66, 1810-1813.	2.5	12
21	Passive ultrasound aided acoustic resolution photoacoustic microscopy imaging for layered heterogeneous media. Applied Physics Letters, 2018, 113, .	1.5	11
22	Portable photoacoustic system for noninvasive blood temperature measurement. , 2018, , .		11
23	Moving data window gradient-based iterative algorithm of combined parameter and state estimation for bilinear systems. International Journal of Robust and Nonlinear Control, 2020, 30, 2413-2429.	2.1	11
24	Magnetoacoustic microscopic imaging of conductive objects and nanoparticles distribution. Journal of Applied Physics, 2017, 122, .	1.1	10
25	Pre-migration: A General Extension for Photoacoustic Imaging Reconstruction. IEEE Transactions on Computational Imaging, 2020, 6, 1097-1105.	2.6	10
26	Development of a Handheld Volumetric Photoacoustic Imaging System With a Central-Holed 2D Matrix Aperture. IEEE Transactions on Biomedical Engineering, 2020, 67, 2482-2489.	2.5	10
27	Ambient Pressure Evaluation Through Sub-Harmonic Response of Chirp-Sonicated Microbubbles. Ultrasound in Medicine and Biology, 2017, 43, 332-340.	0.7	6
28	Distributed simultaneous state and parameter estimation of nonlinear systems. Chemical Engineering Research and Design, 2022, 181, 74-86.	2.7	6
29	Continuous wave laser excitation based portable optoacoustic imaging system for melanoma detection. , 2019, , .		5
30	Investigation and Study for Rail Internal-Flaw Inspection Technique. , 2018, , .		4
31	Noninvasive Glucose Measurement by Microwave Biosensor with Accuracy Enhancement. , 2018, , .		3
32	Portable Photoacoustic Sensor for Noninvasive Glucose Monitoring. , 2019, , .		3
33	A Super-Sensitivity Photoacoustic Receiver System-on-Chip Based on Coherent Detection and Tracking. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 454-463.	2.7	3
34	Phase-domain photoacoustics eliminating acoustic detection variations. , 2017, 2017, 4026-4029.		2
35	Evaluation of Reconstruction Methodology for Helical Scan Guided Photoacoustic Endoscopy. IEEE Transactions on Medical Imaging, 2020, 39, 4198-4208.	5.4	2
36	Three-stage least squares-based iterative estimation algorithms for bilinear state-space systems based on the bilinear state estimator. International Journal of Adaptive Control and Signal Processing, 2020, 34, 1501-1518.	2.3	2

#	ARTICLE	IF	CITATIONS
37	Nonlinear electromagnetic-acoustic sensing and imaging. , 2016, , .		1
38	High-performance hybrid organic-inorganic perovskite nanoparticles based piezoelectric energy harvester. , 2016, , .		1
39	Dual-pulse nonlinear photoacoustic imaging: Physics, sensing and imaging system design. , 2017, , .		0
40	A Miniaturized Dual-Modality Photoacoustic Fusion Imaging System. , 2019, , .		0
41	Attenuation Compensation for High-Frequency Acoustic-Resolution Photoacoustic Imaging. , 2020, , .		0
42	Morphology-Dependent Resonance Enhanced Nonlinear Photoacoustic Effect in Nanoparticle Suspension: A Temporal-spatial Model. Biomedical Optics Express, 2021, 12, 7280-7296.	1.5	0
43	Adaptive coherent photoacoustic sensing. , 2018, , .		0
44	Super-contrast photoacoustic resonance imaging. , 2018, , .		0