

Moein Mozaffarzadeh

List of Publications by Year in descending order

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45
papers

790
citations

686830

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45
docs citations

45
times ranked

428
citing authors

#	ARTICLE	IF	CITATIONS
1	Refraction-Corrected Transcranial Ultrasound Imaging Through the Human Temporal Window Using a Single Probe. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1191-1203.	1.7	13
2	Multi-angle data acquisition to compensate transducer finite size in photoacoustic tomography. Photoacoustics, 2022, 27, 100373.	4.4	12
3	Accelerated 2-D Real-Time Refraction-Corrected Transcranial Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2599-2610.	1.7	7
4	Lamb Waves and Adaptive Beamforming for Aberration Correction in Medical Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 84-91.	1.7	11
5	Motion-compensated noninvasive periodontal health monitoring using handheld and motor-based photoacoustic-ultrasound imaging systems. Biomedical Optics Express, 2021, 12, 1543.	1.5	29
6	Technical considerations in the Verasonics research ultrasound platform for developing a photoacoustic imaging system. Biomedical Optics Express, 2021, 12, 1050.	1.5	46
7	Erratum to "Lamb Waves and Adaptive Beamforming for Aberration Correction in Medical Ultrasound Imaging". IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 352-353.	1.7	5
8	Transcranial Ultrasound Imaging with Estimating the Geometry, Position and Wave-Speed of Temporal Bone. , 2021, , .		2
9	Finite Transducer Size Compensation in Two-Dimensional Photoacoustic Computed Tomography. , 2021, , .		8
10	Receive/Transmit Aperture Selection for 3D Ultrasound Imaging with a 2D Matrix Transducer. Applied Sciences (Switzerland), 2020, 10, 5300.	1.3	9
11	Eigenspace-Based Minimum Variance Combined With Delay Multiply and Sum Beamformer: Application to Linear-Array Photoacoustic Imaging. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-8.	1.9	33
12	Enhanced contrast acoustic-resolution photoacoustic microscopy using double-stage delay-multiply-and-sum beamformer for vasculature imaging. Journal of Biophotonics, 2019, 12, e201900133.	1.1	22
13	GPU-accelerated Double-stage Delay-multiply-and-sum Algorithm for Fast Photoacoustic Tomography Using LED Excitation and Linear Arrays. Ultrasonic Imaging, 2019, 41, 301-316.	1.4	21
14	Development of a Stationary 3D Photoacoustic Imaging System Using Sparse Single-Element Transducers: Phantom Study. Applied Sciences (Switzerland), 2019, 9, 4505.	1.3	19
15	Image improvement in linear-array photoacoustic imaging using high resolution coherence factor weighting technique. BMC Biomedical Engineering, 2019, 1, 10.	1.7	13
16	Sparsity-based beamforming to enhance two-dimensional linear-array photoacoustic tomography. Ultrasonics, 2019, 96, 55-63.	2.1	7
17	Phase Aberration Correction in Transcranial Ultrasound Imaging using Averaged Sound Velocity Map in Delay-and-Sum Beamformer. , 2019, , .		2
18	Fabrication and Characterization of a Prototype Forward-Looking Single-Cable 64-Element Intra-Vascular Ultrasound Probe. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
19	3D high frame rate flow measurement using a prototype matrix transducer for carotid imaging. , 2019, , .		2
20	Validation of delay \times and \times standard \times deviation weighting factor for improved photoacoustic imaging of sentinel lymph node. Journal of Biophotonics, 2019, 12, e201800292.	1.1	9
21	Genetic algorithm for feedback-based wavefront shaping in optical imaging. , 2019, , .		1
22	Delay-multiply-and-standard-deviation weighting factor improves image quality in linear-array photoacoustic tomography. , 2019, , .		0
23	Signal-to-noise improvement in LED-based photoacoustic imaging systems using double-stage delay-multiply-and-sum image reconstruction method. , 2019, , .		0
24	An advanced sparsity-based photoacoustic image reconstruction algorithm for linear-array transducer scenario. , 2019, , .		0
25	Application of Demons algorithm in ultrasound elastography using B-mode ultrasound images. , 2019, , .		0
26	Artifact reduction using minimum variance-based sparse subarray technique in linear-array photoacoustic tomography. , 2019, , .		0
27	OpenACC GPU implementation of double-stage delay-multiply-and-sum algorithm: toward enhanced real-time linear-array photoacoustic tomography. , 2019, , .		2
28	An efficient image formation algorithm for real-time linear-array photoacoustic tomography. , 2019, , .		0
29	Double-Stage Delay Multiply and Sum Beamforming Algorithm Applied to Ultrasound Medical Imaging. Ultrasound in Medicine and Biology, 2018, 44, 677-686.	0.7	65
30	Double-Stage Delay Multiply and Sum Beamforming Algorithm: Application to Linear-Array Photoacoustic Imaging. IEEE Transactions on Biomedical Engineering, 2018, 65, 31-42.	2.5	147
31	Regularized Capon Beamformer Using ℓ_1 -Norm Applied to Photoacoustic Imaging. , 2018, , .		0
32	A Novel Dictionary-Based Image Reconstruction for Photoacoustic Computed Tomography. Applied Sciences (Switzerland), 2018, 8, 1570.	1.3	57
33	The double-stage delay-multiply-and-sum image reconstruction method improves imaging quality in a LED-based photoacoustic array scanner. Photoacoustics, 2018, 12, 22-29.	4.4	43
34	Photoacoustic image formation based on sparse regularization of minimum variance beamformer. Biomedical Optics Express, 2018, 9, 2544.	1.5	20
35	Efficient nonlinear beamformer based on \sqrt{m} th root of detected signals for linear-array photoacoustic tomography: application to sentinel lymph node imaging. Journal of Biomedical Optics, 2018, 23, 1.	1.4	10
36	Linear-array photoacoustic imaging using minimum variance-based delay multiply and sum adaptive beamforming algorithm. Journal of Biomedical Optics, 2018, 23, 1.	1.4	90

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37	Enhanced linear-array photoacoustic beamforming using modified coherence factor. Journal of Biomedical Optics, 2018, 23, 1.	1.4	55
38	Model-based photoacoustic image reconstruction using compressed sensing and smoothed L0 norm. , 2018, , .		5
39	Effects of important parameters variations on computing Eigenspace-based minimum variance weights for ultrasound tissue harmonic imaging. , 2018, , .		0
40	Three-dimensional photoacoustic tomography using delay multiply and sum beamforming algorithm. , 2018, , .		1
41	An image registration-based technique for noninvasive vascular elastography. , 2018, , .		0
42	Eigenspace-based minimum variance adaptive beamformer combined with delay multiply and sum: experimental study. , 2018, , .		0
43	Image enhancement and noise reduction using modified Delay-Multiply-and-Sum beamformer: Application to medical photoacoustic imaging. , 2017, , .		6
44	Medical photoacoustic beamforming using minimum variance-based delay multiply and sum. Proceedings of SPIE, 2017, , .	0.8	10
45	Photoacoustic Imaging Using Combination of Eigenspace-Based Minimum Variance and Delay-Multiply-and-Sum Beamformers: Simulation Study. , 2017, , .		6