Moein Mozaffarzadeh

List of Publications by Year
in descending order

45 papers	790 citations	687363 13 h-index	610901 24 g-index
45 all docs	45 docs citations	45 times ranked	428 citing authors

#	Article	IF	Citations
1	Double-Stage Delay Multiply and Sum Beamforming Algorithm: Application to Linear-Array Photoacoustic Imaging. IEEE Transactions on Biomedical Engineering, 2018, 65, 31-42.	4.2	147
2	Linear-array photoacoustic imaging using minimum variance-based delay multiply and sum adaptive beamforming algorithm. Journal of Biomedical Optics, 2018, 23, 1.	2.6	90
3	Double-Stage Delay Multiply and Sum Beamforming Algorithm Applied to Ultrasound Medical Imaging. Ultrasound in Medicine and Biology, 2018, 44, 677-686.	1.5	65
4	A Novel Dictionary-Based Image Reconstruction for Photoacoustic Computed Tomography. Applied Sciences (Switzerland), 2018, 8, 1570.	2.5	57
5	Enhanced linear-array photoacoustic beamforming using modified coherence factor. Journal of Biomedical Optics, 2018, 23, 1.	2.6	55
6	Technical considerations in the Verasonics research ultrasound platform for developing a photoacoustic imaging system. Biomedical Optics Express, 2021, 12, 1050.	2.9	46
7	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.	7.8	43
8	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.	2.9	33
9	Motion-compensated noninvasive periodontal health monitoring using handheld and motor-based photoacoustic-ultrasound imaging systems. Biomedical Optics Express, 2021, 12, 1543.	2.9	29
10	Enhanced contrast acousticâ€resolution photoacoustic microscopy using doubleâ€stage delayâ€multiplyâ€andâ€sum beamformer for vasculature imaging. Journal of Biophotonics, 2019, 12, e201900133.	2.3	22
11	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.	2.6	21
12	Photoacoustic image formation based on sparse regularization of minimum variance beamformer. Biomedical Optics Express, 2018, 9, 2544.	2.9	20
13	Development of a Stationary 3D Photoacoustic Imaging System Using Sparse Single-Element Transducers: Phantom Study. Applied Sciences (Switzerland), 2019, 9, 4505.	2.5	19
14	Image improvement in linear-array photoacoustic imaging using high resolution coherence factor weighting technique. BMC Biomedical Engineering, 2019, 1, 10.	2.6	13
15	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.	3.0	13
16	Multi-angle data acquisition to compensate transducer finite size in photoacoustic tomography. Photoacoustics, 2022, 27, 100373.	7.8	12
17	Lamb Waves and Adaptive Beamforming for Aberration Correction in Medical Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 84-91.	3.0	11
18	Medical photoacoustic beamforming using minimum variance-based delay multiply and sum. Proceedings of SPIE, 2017, , .	0.8	10

#	Article	IF	Citations
19	Efficient nonlinear beamformer based on Pâ€™th root of detected signals for linear-array photoacoustic tomography: application to sentinel lymph node imaging. Journal of Biomedical Optics, 2018, 23, 1.	2.6	10
20	Validation of delayâ€multiplyâ€andâ€standardâ€deviation weighting factor for improved photoacoustic imaging of sentinel lymph node. Journal of Biophotonics, 2019, 12, e201800292.	2.3	9
21	Receive/Transmit Aperture Selection for 3D Ultrasound Imaging with a 2D Matrix Transducer. Applied Sciences (Switzerland), 2020, 10, 5300.	2.5	9
22	Finite Transducer Size Compensation in Two-Dimensional Photoacoustic Computed Tomography. , 2021, , .		8
23	Sparsity-based beamforming to enhance two-dimensional linear-array photoacoustic tomography. Ultrasonics, 2019, 96, 55-63.	3.9	7
24	Accelerated 2-D Real-Time Refraction-Corrected Transcranial Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2599-2610.	3.0	7
25	Image enhancement and noise reduction using modified Delay-Multiply-and-Sum beamformer: Application to medical photoacoustic imaging. , 2017, , .		6
26	Photoacoustic Imaging Using Combination of Eigenspace-Based Minimum Variance and Delay-Multiply-and-Sum Beamformers: Simulation Study. , 2017, , .		6
27	Erratum to â€œLamb Waves and Adaptive Beamforming for Aberration Correction in Medical Ultrasound Imagingâ€ IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 352-353.	3.0	5
28	Model-based photoacoustic image reconstruction using compressed sensing and smoothed L0 norm. , 2018, , .		5
29	Phase Aberration Correction in Transcranial Ultrasound Imaging using Averaged Sound Velocity Map in Delay-and-Sum Beamformer. , 2019, , .		2
30	Fabrication and Characterization of a Prototype Forward-Looking Single-Cable 64-Element Intra-Vascular Ultrasound Probe. , 2019, , .		2
31	3D high frame rate flow measurement using a prototype matrix transducer for carotid imaging. , 2019, , .		2
32	OpenACC GPU implementation of double-stage delay-multiply-and-sum algorithm: toward enhanced real-time linear-array photoacoustic tomography. , 2019, , .		2
33	Transcranial Ultrasound Imaging with Estimating the Geometry, Position and Wave-Speed of Temporal Bone. , 2021, , .		2
34	Genetic algorithm for feedback-based wavefront shaping in optical imaging. , 2019, , .		1
35	Three-dimensional photoacoustic tomography using delay multiply and sum beamforming algorithm. , 2018, , .		1
36	Regularized Capon Beamformer Using <tex>ell_{1}</tex>-Norm Applied to Photoacoustic Imaging. , 2018, , .		0

#	Article	IF	Citations
37	Effects of important parameters variations on computing Eigenspace-based minimum variance weights for ultrasound tissue harmonic imaging. , 2018, , .		0
38	An image registration-based technique for noninvasive vascular elastography. , 2018, , .		0
39	Eigenspace-based minimum variance adaptive beamformer combined with delay multiply and sum: experimental study. , 2018, , .		0
40	Delay-multiply-and-standard-deviation weighting factor improves image quality in linear-array photoacoustic tomography. , 2019, , .		0
41	Signal-to-noise improvement in LED-based photoacoustic imaging systems using double-stage delay-multiply-and-sum image reconstruction method. , 2019, , .		0
42	An advanced sparsity-based photoacoustic image reconstruction algorithm for linear-array transducer scenario. , 2019, , .		0
43	Application of Demons algorithm in ultrasound elastography using B-mode ultrasound images. , 2019, , .		0
44	Artifact reduction using minimum variance-based sparse subarray technique in linear-array photoacoustic tomography. , 2019, , .		0
45	An efficient image formation algorithm for real-time linear-array photoacoustic tomography. , 2019, , .		0