

Masaaki Omura

List of Publications by Year in descending order

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26
papers

174
citations

1478505

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1281871

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27
all docs

27
docs citations

27
times ranked

51
citing authors

#	ARTICLE	IF	CITATIONS
1	Verification of echo amplitude envelope analysis method in skin tissues for quantitative follow-up of healing ulcers. Japanese Journal of Applied Physics, 2018, 57, 07LF15.	1.5	32
2	Tissue characterization of skin ulcer for bacterial infection by multiple statistical analysis of echo amplitude envelope. Japanese Journal of Applied Physics, 2016, 55, 07KF14.	1.5	24
3	Investigation of feasibility of singular value decomposition clutter filter in plane wave imaging with packet transmission sequence. Journal of Medical Ultrasonics (2001), 2021, 48, 13-20.	1.3	12
4	High-frequency ultrasonic backscatter coefficient analysis considering microscopic acoustic and histopathological properties of lymphedema dermis. Japanese Journal of Applied Physics, 2020, 59, SKKE15.	1.5	9
5	Comparable analysis of bubble translation due to acoustic radiation force based on simultaneous acoustical and optical observation. Japanese Journal of Applied Physics, 2020, 59, SKKE07.	1.5	8
6	Frequency dependence of attenuation and backscatter coefficient of ex vivo human lymphedema dermis. Journal of Medical Ultrasonics (2001), 2020, 47, 25-34.	1.3	7
7	Validation of differences in backscatter coefficients among four ultrasound scanners with different beamforming methods. Journal of Medical Ultrasonics (2001), 2020, 47, 35-46.	1.3	7
8	Measurement of flow velocity vectors in carotid artery using plane wave imaging with repeated transmit sequence. Journal of Medical Ultrasonics (2001), 2021, 48, 417-427.	1.3	7
9	Ultrasound assessment of translation of microbubbles driven by acoustic radiation force in a channel filled with stationary fluid. Journal of the Acoustical Society of America, 2019, 146, 2335-2349.	1.1	6
10	Impact of spacing of ultrasound receiving beams on estimation of 2D motion velocity. Japanese Journal of Applied Physics, 2021, 60, SDDE07.	1.5	6
11	A study on understanding the physical mechanism of change in ultrasonic envelope statistical property during temperature elevation. Medical Physics, 2021, 48, 3042-3054.	3.0	6
12	Stability of backscattering coefficient evaluation with clinical ultrasound scanner in homogeneous medium when sound field characteristics differ from reference signal. Japanese Journal of Applied Physics, 2021, 60, SDDE24.	1.5	6
13	Preliminary study on estimation of flow velocity vectors using focused transmit beams. Japanese Journal of Applied Physics, 2022, 61, SG1026.	1.5	6
14	On the Investigation of Autocorrelation-Based Vector Doppler Method With Plane Wave Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1301-1311.	3.0	6
15	Noninvasive, objective evaluation of lower extremity lymphedema severity using shear wave elastography: A preliminary study. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2021, 74, 3377-3385.	1.0	5
16	Characterization of blood mimicking fluid with ultrafast ultrasonic and optical image velocimeters. Japanese Journal of Applied Physics, 2022, 61, SG1067.	1.5	5
17	Evaluation of accuracy of phase-sensitive method in estimation of axial motion and deformation with fluid-structure interaction analysis. Japanese Journal of Applied Physics, 2021, 60, SDDE01.	1.5	4
18	Backscatter properties of two-layer phantoms using a high-frequency ultrasound annular array. Japanese Journal of Applied Physics, 2022, 61, SG1049.	1.5	4

#	ARTICLE	IF	CITATIONS
19	Statistical Analysis of Ultrasonic Scattered Echoes Enables the Non-invasive Measurement of Temperature Elevations inside Tumor Tissue during Oncological Hyperthermia. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 3301-3309.	1.5	3
20	In Vivo Quantitative Ultrasound on Dermis and Hypodermis for Classifying Lymphedema Severity in Humans. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 646-662.	1.5	3
21	Investigation on application of singular value decomposition filter in element domain for extraction of ultrasonic echoes from blood cells in jugular veins. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SG1011.	1.5	3
22	Investigation on improving performance of adaptive beamformer by statistical analysis of ultrasonic echoes. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SG1040.	1.5	2
23	Size-dependent translational velocity of phospholipid-coated bubbles driven by acoustic radiation force. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SG1018.	1.5	2
24	Investigation on effect of transmit condition on ultrasonic measurement of 2D motion velocity. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SG1053.	1.5	1
25	The Speed of Sound Analysis from Micro to Macro Size by Wide Area Ultrasound Microscopic Measurement. , 2018, , .		0
26	Visualization of a simulated lymph channel using contrast enhanced active Doppler ultrasonography method. , 2019, , .		0