

Makoto Yamakawa

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

2,093
citations

759055

12
h-index

360920

35
g-index

64
all docs

64
docs citations

64
times ranked

1857
citing authors

#	ARTICLE	IF	CITATIONS
1	Breast Disease: Clinical Application of US Elastography for Diagnosis. <i>Radiology</i> , 2006, 239, 341-350.	3.6	1,454
2	Tissue elasticity imaging for diagnosis of prostate cancer: A preliminary report. <i>International Journal of Urology</i> , 2006, 13, 1514-1518.	0.5	95
3	Strain Estimation Using the Extended Combined Autocorrelation Method. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 3872-3876.	0.8	88
4	Model-Based Reconstruction Integrated With Fluence Compensation for Photoacoustic Tomography. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1354-1363.	2.5	60
5	High-speed Freehand Tissue Elasticity Imaging for Breast Diagnosis. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 3265-3270.	0.8	53
6	Ex Vivo and In Vivo Assessment of the Non-linearity of Elasticity Properties of Breast Tissues for Quantitative Strain Elastography. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 1755-1768.	0.7	36
7	Tissue Elasticity Reconstruction Based on 3-Dimensional Finite-Element Model. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 3393-3398.	0.8	27
8	Ring-array photoacoustic tomography for imaging human finger vasculature. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	26
9	Current status and perspectives for computer-aided ultrasonic diagnosis of liver lesions using deep learning technology. <i>Hepatology International</i> , 2019, 13, 416-421.	1.9	24
10	Artificial intelligence (AI) models for the ultrasonographic diagnosis of liver tumors and comparison of diagnostic accuracies between AI and human experts. <i>Journal of Gastroenterology</i> , 2022, 57, 309-321.	2.3	19
11	Mechanical Model Analysis for Quantitative Evaluation of Liver Fibrosis Based on Ultrasound Tissue Elasticity Imaging. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 07GF11.	0.8	18
12	Shear wavelength estimation based on inverse filtering and multiple-point shear wave generation. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 07KF10.	0.8	15
13	Computer aided diagnosis system developed for ultrasound diagnosis of liver lesions using deep learning. , 2019, , .		15
14	Evaluation of shear wave dispersion in hepatic viscoelastic models including fibrous structure. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SGGE07.	0.8	12
15	A review of physical and engineering factors potentially affecting shear wave elastography. <i>Journal of Medical Ultrasonics (2001)</i> , 2021, 48, 403-414.	0.6	12
16	High range resolution medical acoustic vascular imaging with frequency domain interferometry. , 2010, 2010, 5298-301.		9
17	Photoacoustic image quality enhancement by estimating mean sound speed based on optimum focusing. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 07HC13.	0.8	9
18	High-range-resolution imaging using frequency domain interferometry with stabilization techniques for real-time vascular ultrasound. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 07HF05.	0.8	8

#	ARTICLE	IF	CITATIONS
19	Study on the application of shear-wave elastography to thin-layered media and tubular structure: Finite-element analysis and experiment verification. Japanese Journal of Applied Physics, 2016, 55, 07KF08.	0.8	8
20	Quantile-based sequential optimization and reliability assessment for shape and topology optimization of plane frames using L-moments. Structural Safety, 2022, 94, 102153.	2.8	8
21	Small calcification depiction in ultrasound B-mode images using decorrelation of echoes caused by forward scattered waves. Journal of Medical Ultrasonics (2001), 2011, 38, 73-80.	0.6	7
22	Sequential mixture of Gaussian processes and saddlepoint approximation for reliability-based design optimization of structures. Structural and Multidisciplinary Optimization, 2021, 64, 625.	1.7	7
23	High Resolution Ultrasound Imaging Using Frequency Domain Interferometry. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1552-1557.	0.1	7
24	Tissue Elasticity Reconstruction Based on Modified 3-Dimensional Finite-Element Model. Japanese Journal of Applied Physics, 2005, 44, 4567-4577.	0.8	6
25	Optimal cropping for input images used in a convolutional neural network for ultrasonic diagnosis of liver tumors. Japanese Journal of Applied Physics, 2020, 59, SKKE09.	0.8	6
26	Recent progress of ultrasound elasticity imaging technology. International Congress Series, 2004, 1274, 59-63.	0.2	5
27	Displacement vector measurement based on two-dimensional modulation method with hyperbolic scanning. , 2009, , .		5
28	Calculus detection for ultrasonography using decorrelation of forward scattered wave. Journal of Medical Ultrasonics (2001), 2010, 37, 129-135.	0.6	5
29	Small calcification indicator in ultrasonography using correlation of echoes with a modified Wiener filter. Journal of Medical Ultrasonics (2001), 2012, 39, 127-135.	0.6	5
30	Mechanical Model Analysis for Quantitative Evaluation of Liver Fibrosis Based on Ultrasound Tissue Elasticity Imaging. Japanese Journal of Applied Physics, 2012, 51, 07GF11.	0.8	5
31	Shear wave speed measurement bias in a viscoelastic phantom across six ultrasound elastography systems: a comparative study with transient elastography and magnetic resonance elastography. Journal of Medical Ultrasonics (2001), 2022, 49, 143-152.	0.6	5
32	Small calculus detection for medical acoustic imaging using cross-correlation between echo signals. , 2009, , .		4
33	A fast acoustic field mapping approach based on fabryâ€™perot sensor with highâ€™speed camera. IEEJ Transactions on Electrical and Electronic Engineering, 2014, 9, 477-483.	0.8	4
34	3D Myocardial Contraction Imaging Based on Dynamic Grid Interpolation: Theory and Simulation Analysis. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 1732-1742.	0.1	4
35	Tissue Viscoelasticity Imaging Using Vibration and Ultrasound Coupler Gel. Japanese Journal of Applied Physics, 2012, 51, 07GF12.	0.8	4
36	Basic Investigation of Three-Dimensional Ultrasound Tissue Viscoelasticity Microscope. Japanese Journal of Applied Physics, 2007, 46, 4851.	0.8	3

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37	Adaptive dynamic grid interpolation: A robust, high-performance displacement smoothing filter for myocardial strain imaging. , 2008, , .		3
38	Deep-learning framework based on a large ultrasound image database to realize computer-aided diagnosis for liver and breast tumors. , 2021, , .		3
39	Evaluation of blood glucose concentration measurement using photoacoustic spectroscopy in near-infrared region. Proceedings of SPIE, 2017, , .	0.8	2
40	Experimental Validation of Displacement Vector Measurement Based on Two-Dimensional Modulation Method with Virtual Hyperbolic Scanning. Japanese Journal of Applied Physics, 2012, 51, 07GF10.	0.8	2
41	1206: Elastic Moduli of Invasive Carcinoma of the Breast Compared with US Elastography Findings. Ultrasound in Medicine and Biology, 2009, 35, S155.	0.7	1
42	Biological tissue component evaluation by measuring photoacoustic spectrum. , 2017, , .		1
43	Quantitative evaluation of skin aging with photoacoustic microscopy. , 2017, , .		1
44	Quantitative evaluation of skin aging with photoacoustic microscopy. , 2017, , .		1
45	Simultaneous Photoacoustic and Ultrasound Imaging Using a Hemispherical Sensor Array. , 2018, , .		1
46	Robust strain estimation using adaptive dynamic grid interpolation model. , 2008, , .		0
47	B-mode image contrast improvement and 2-D strain estimation using satellite-view imaging method. , 2009, , .		0
48	A high performance spatio-temporal displacement smoothing method for myocardial strain imaging. , 2009, , .		0
49	Adaptive depth compensation algorithm for photoacoustic tomography. , 2010, , .		0
50	Myocardial Strain Imaging with High-Performance Adaptive Dynamic Grid Interpolation Method. Japanese Journal of Applied Physics, 2010, 49, 07HF25.	0.8	0
51	Simultaneous multispectral coded excitation for photoacoustic imaging. , 2012, , .		0
52	Photoacoustic image reconstruction quality enhancement based on optimum focusing by calculating mean acoustic sound-speed. , 2014, , .		0
53	Small calcification depiction in ultrasonography using frequency domain interferometry. , 2014, , .		0
54	Mapping viscoelastic properties by multi-line (ML) acoustic radiation force. Proceedings of SPIE, 2015, , .	0.8	0

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55	Three-dimensional photoacoustic reconstruction for sparse array using compressed sensing based on k-space algorithm. , 2016, , .		0
56	Experimental validation of simultaneous excitation of orthogonal coded push pulses for fast shear wave elastography. , 2017, , .		0
57	Experimental validation of simultaneous excitation of orthogonal coded push pulses for fast shear wave elastography. , 2017, , .		0
58	Evaluation of shear wave dispersion caused by fibrous structure and tissue viscosity using hepatic fibrosis progression and histological models. , 2017, , .		0
59	Photoacoustic Imaging for Lymphatic Vein Anastomosis “ Examination using small animals. , 2019, , .		0
60	Liver fibrosis structure effects on viscoelasticity estimation using group shear wave speeds. , 2019, , .		0
61	Displacement Vector Measurement Using 2D Modulation by Virtual Hyperbolic Beam Forming. IEEJ Transactions on Electronics, Information and Systems, 2010, 130, 460-467.	0.1	0
62	Ultrasound Phantom Using Thin Wires for the Depiction of Calcification -Comparison of Cross-Sections of Wire Targets and Mass Targets-. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 1528-1534.	0.1	0
63	Quantitative Evaluation of Fatty Metamorphosis and Fibrosis of Liver Based on Models of Ultrasound and Light Propagation and Its Application to Hepatic Disease Diagnosis. , 2022, , 215-223.		0