

Makoto Yamakawa

List of Publications by Year in descending order

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63
papers

2,093
citations

759055

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360920

35
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all docs

64
docs citations

64
times ranked

1857
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantile-based sequential optimization and reliability assessment for shape and topology optimization of plane frames using L-moments. <i>Structural Safety</i> , 2022, 94, 102153.	2.8	8
2	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
3	Shear wave speed measurement bias in a viscoelastic phantom across six ultrasound elastography systems: a comparative study with transient elastography and magnetic resonance elastography. <i>Journal of Medical Ultrasonics (2001)</i> , 2022, 49, 143-152.	0.6	5
4	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
5	Sequential mixture of Gaussian processes and saddlepoint approximation for reliability-based design optimization of structures. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 625.	1.7	7
6	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
7	Deep-learning framework based on a large ultrasound image database to realize computer-aided diagnosis for liver and breast tumors. , 2021, , .		3
8	Optimal cropping for input images used in a convolutional neural network for ultrasonic diagnosis of liver tumors. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SKKE09.	0.8	6
9	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
10	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
11	Photoacoustic Imaging for Lymphatic Vein Anastomosis “ Examination using small animals. , 2019, , .		0
12	Liver fibrosis structure effects on viscoelasticity estimation using group shear wave speeds. , 2019, , .		0
13	Computer aided diagnosis system developed for ultrasound diagnosis of liver lesions using deep learning. , 2019, , .		15
14	Ring-array photoacoustic tomography for imaging human finger vasculature. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	26
15	Simultaneous Photoacoustic and Ultrasound Imaging Using a Hemispherical Sensor Array. , 2018, , .		1
16	Evaluation of blood glucose concentration measurement using photoacoustic spectroscopy in near-infrared region. <i>Proceedings of SPIE</i> , 2017, , .	0.8	2
17	Biological tissue component evaluation by measuring photoacoustic spectrum. , 2017, , .		1
18	Experimental validation of simultaneous excitation of orthogonal coded push pulses for fast shear wave elastography. , 2017, , .		0

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19	Quantitative evaluation of skin aging with photoacoustic microscopy. , 2017, , .		1
20	Experimental validation of simultaneous excitation of orthogonal coded push pulses for fast shear wave elastography. , 2017, , .		0
21	Evaluation of shear wave dispersion caused by fibrous structure and tissue viscosity using hepatic fibrosis progression and histological models. , 2017, , .		0
22	Quantitative evaluation of skin aging with photoacoustic microscopy. , 2017, , .		1
23	Shear wavelength estimation based on inverse filtering and multiple-point shear wave generation. Japanese Journal of Applied Physics, 2016, 55, 07KF10.	0.8	15
24	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
25	Three-dimensional photoacoustic reconstruction for sparse array using compressed sensing based on k-space algorithm. , 2016, , .		0
26	Photoacoustic image quality enhancement by estimating mean sound speed based on optimum focusing. Japanese Journal of Applied Physics, 2015, 54, 07HC13.	0.8	9
27	Mapping viscoelastic properties by multi-line (ML) acoustic radiation force. Proceedings of SPIE, 2015, , .	0.8	0
28	High-range-resolution imaging using frequency domain interferometry with stabilization techniques for real-time vascular ultrasound. Japanese Journal of Applied Physics, 2015, 54, 07HF05.	0.8	8
29	Photoacoustic image reconstruction quality enhancement based on optimum focusing by calculating mean acoustic sound-speed. , 2014, , .		0
30	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
31	Small calcification depiction in ultrasonography using frequency domain interferometry. , 2014, , .		0
32	ExÂVivo and InÂVivo Assessment of the Non-linearity of Elasticity Properties of Breast Tissues for Quantitative Strain Elastography. Ultrasound in Medicine and Biology, 2014, 40, 1755-1768.	0.7	36
33	Simultaneous multispectral coded excitation for photoacoustic imaging. , 2012, , .		0
34	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	18
35	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
36	Model-Based Reconstruction Integrated With Fluence Compensation for Photoacoustic Tomography. IEEE Transactions on Biomedical Engineering, 2012, 59, 1354-1363.	2.5	60

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37	High Resolution Ultrasound Imaging Using Frequency Domain Interferometry. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1552-1557.	0.1	7
38	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
39	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
40	Tissue Viscoelasticity Imaging Using Vibration and Ultrasound Coupler Gel. Japanese Journal of Applied Physics, 2012, 51, 07GF12.	0.8	4
41	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
42	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
43	Calculus detection for ultrasonography using decorrelation of forward scattered wave. Journal of Medical Ultrasonics (2001), 2010, 37, 129-135.	0.6	5
44	Adaptive depth compensation algorithm for photoacoustic tomography. , 2010, , .		0
45	High range resolution medical acoustic vascular imaging with frequency domain interferometry. , 2010, 2010, 5298-301.		9
46	Myocardial Strain Imaging with High-Performance Adaptive Dynamic Grid Interpolation Method. Japanese Journal of Applied Physics, 2010, 49, 07HF25.	0.8	0
47	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
48	Displacement vector measurement based on two-dimensional modulation method with hyperbolic scanning. , 2009, , .		5
49	B-mode image contrast improvement and 2-D strain estimation using satellite-view imaging method. , 2009, , .		0
50	Small calculus detection for medical acoustic imaging using cross-correlation between echo signals. , 2009, , .		4
51	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
52	A high performance spatio-temporal displacement smoothing method for myocardial strain imaging. , 2009, , .		0
53	Adaptive dynamic grid interpolation: A robust, high-performance displacement smoothing filter for myocardial strain imaging. , 2008, , .		3
54	Robust strain estimation using adaptive dynamic grid interpolation model. , 2008, , .		0

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55	Basic Investigation of Three-Dimensional Ultrasound Tissue Viscoelasticity Microscope. Japanese Journal of Applied Physics, 2007, 46, 4851.	0.8	3
56	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
57	Tissue elasticity imaging for diagnosis of prostate cancer: A preliminary report. International Journal of Urology, 2006, 13, 1514-1518.	0.5	95
58	Breast Disease: Clinical Application of US Elastography for Diagnosis. Radiology, 2006, 239, 341-350.	3.6	1,454
59	Tissue Elasticity Reconstruction Based on Modified 3-Dimensional Finite-Element Model. Japanese Journal of Applied Physics, 2005, 44, 4567-4577.	0.8	6
60	Recent progress of ultrasound elasticity imaging technology. International Congress Series, 2004, 1274, 59-63.	0.2	5
61	High-speed Freehand Tissue Elasticity Imaging for Breast Diagnosis. Japanese Journal of Applied Physics, 2003, 42, 3265-3270.	0.8	53
62	Strain Estimation Using the Extended Combined Autocorrelation Method. Japanese Journal of Applied Physics, 2001, 40, 3872-3876.	0.8	88
63	Tissue Elasticity Reconstruction Based on 3-Dimensional Finite-Element Model. Japanese Journal of Applied Physics, 1999, 38, 3393-3398.	0.8	27