

Ryo Nagaoka

List of Publications by Year in descending order

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68
papers

482
citations

840776

11
h-index

888059

17
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71
all docs

71
docs citations

71
times ranked

261
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of regional pulse-wave velocity using spatial compound imaging of the common carotid artery in vivo. <i>Ultrasonics</i> , 2015, 55, 92-103.	3.9	37
2	Initial phantom study on estimation of speed of sound in medium using coherence among received echo signals. <i>Journal of Medical Ultrasonics (2001)</i> , 2019, 46, 297-307.	1.3	27
3	Utilization of singular value decomposition in high-frame-rate cardiac blood flow imaging. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SGGE02.	1.5	26
4	Visualization of murine lymph vessels using photoacoustic imaging with contrast agents. <i>Photoacoustics</i> , 2018, 9, 39-48.	7.8	21
5	Investigation of the estimation accuracy of two-step block matching methods using envelope and RF signals for two-dimensional blood flow vector imaging. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SGGE10.	1.5	19
6	Estimation of speed of sound using coherence factor and signal-to-noise ratio for improvement of performance of ultrasonic beamformer. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SKKE14.	1.5	19
7	Development of Real-Time 3-D Photoacoustic Imaging System Employing Spherically Curved Array Transducer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 1223-1233.	3.0	16
8	Converting Coherence to Signal-to-noise Ratio for Enhancement of Adaptive Ultrasound Imaging. <i>Ultrasonic Imaging</i> , 2020, 42, 27-40.	2.6	14
9	Development of optical resolution photoacoustic microscopy with sub-micron lateral resolution for visualization of cells and their structures. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SKKE11.	1.5	14
10	Comparison of ultrasonic motion estimators for vascular applications. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SGGE16.	1.5	13
11	Basic study on estimation method of wall shear stress in common carotid artery using blood flow imaging. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SKKE16.	1.5	13
12	Investigation of feasibility of singular value decomposition clutter filter in plane wave imaging with packet transmission sequence. <i>Journal of Medical Ultrasonics (2001)</i> , 2021, 48, 13-20.	1.3	12
13	A method for the design of ultrasonic devices for scanning acoustic microscopy using impulsive signals. <i>Ultrasonics</i> , 2018, 84, 172-179.	3.9	11
14	Speckle reduction of medical ultrasound images using deep learning with fully convolutional network. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SKKE06.	1.5	11
15	Improvement of performance of minimum variance beamformer by introducing cross covariance estimate. <i>Journal of Medical Ultrasonics (2001)</i> , 2020, 47, 203-210.	1.3	11
16	Development of an ultrasound microscope combined with optical microscope for multiparametric characterization of a single cell. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 1615-1622.	3.0	9
17	Improvement of high-range-resolution imaging by considering change in ultrasonic waveform during propagation. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 07LF23.	1.5	9
18	Singular value decomposition filter for speckle reduction in adaptive ultrasound imaging. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SGGE06.	1.5	9

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19	Preliminary study on the separation of specular reflection and backscattering components using synthetic aperture beamforming. <i>Journal of Medical Ultrasonics</i> (2001), 2020, 47, 493-500.	1.3	9
20	Selective detection of cavitation bubbles by triplet pulse sequence in high-intensity focused ultrasound treatment. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 07LF12.	1.5	8
21	Singular value decomposition of received ultrasound signal to separate tissue, blood flow, and cavitation signals. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 07LF04.	1.5	8
22	Anti-aliasing method for ultrasonic 2D phase-sensitive motion estimator. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SKKE20.	1.5	8
23	Accuracy evaluation of 3D velocity estimation by multi-frequency phase-sensitive motion estimator under various specifications of matrix array probe. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SKKE01.	1.5	8
24	TBX5 R264K acts as a modifier to develop dilated cardiomyopathy in mice independently of T-box pathway. <i>PLoS ONE</i> , 2020, 15, e0227393.	2.5	8
25	Basic study of improvement of axial resolution and suppression of time side lobe by phase-corrected Wiener filtering in photoacoustic tomography. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 07LD11.	1.5	7
26	Validation of differences in backscatter coefficients among four ultrasound scanners with different beamforming methods. <i>Journal of Medical Ultrasonics</i> (2001), 2020, 47, 35-46.	1.3	7
27	Temperature elevation in tissue detected in vivo based on statistical analysis of ultrasonic scattered echoes. <i>Scientific Reports</i> , 2020, 10, 9030.	3.3	7
28	Acoustic impedance interpretation of cross-sectional human skin by using time and frequency domain deconvolution. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SKKB06.	1.5	7
29	Effects from correction of speed of sound in transmit and receive beamforming using focus beam. <i>Japanese Journal of Applied Physics</i> , 2021, 60, SDDE19.	1.5	7
30	Measurement of flow velocity vectors in carotid artery using plane wave imaging with repeated transmit sequence. <i>Journal of Medical Ultrasonics</i> (2001), 2021, 48, 417-427.	1.3	7
31	Deduction of two-dimensional blood flow vector by dual angle diverging waves from a cardiac sector probe. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 07LF02.	1.5	6
32	Identification of vascular lumen by singular value decomposition filtering on blood flow velocity distribution. <i>Journal of Medical Ultrasonics</i> (2001), 2019, 46, 187-194.	1.3	6
33	Impact of spacing of ultrasound receiving beams on estimation of 2D motion velocity. <i>Japanese Journal of Applied Physics</i> , 2021, 60, SDDE07.	1.5	6
34	A study on understanding the physical mechanism of change in ultrasonic envelope statistical property during temperature elevation. <i>Medical Physics</i> , 2021, 48, 3042-3054.	3.0	6
35	Preliminary study on estimation of flow velocity vectors using focused transmit beams. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SG1026.	1.5	6
36	On the Investigation of Autocorrelation-Based Vector Doppler Method With Plane Wave Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1301-1311.	3.0	6

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37	Temporal averaging introduced in linear regression beamforming for improvement of contrast-to-noise ratio. Japanese Journal of Applied Physics, 2020, 59, SKKE12.	1.5	5
38	Low-intensity pulsed ultrasound promotes the expression of immediate-early genes in mouse ST2 bone marrow stromal cells. Journal of Medical Ultrasonics (2001), 2020, 47, 193-201.	1.3	5
39	Study on estimation of surface roughness by separation of reflection and backscattering components using ultrasonic synthetic aperture imaging. Japanese Journal of Applied Physics, 2021, 60, SDDE09.	1.5	5
40	Three-dimensional acoustic impedance mapping of human skin by improved time-frequency domain analysis. Japanese Journal of Applied Physics, 2021, 60, SDDE22.	1.5	5
41	Characterization of blood mimicking fluid with ultrafast ultrasonic and optical image velocimeters. Japanese Journal of Applied Physics, 2022, 61, SG1067.	1.5	5
42	Correction of phase rotation in pulse spectrum method for scanning acoustic microscopy and its application to measurements of cells. Ultrasonics, 2019, 99, 105949.	3.9	4
43	Modified high-resolution wavenumber analysis for detection of pulse wave velocity using coefficient of variation of arterial wall acceleration waveforms. Journal of Medical Ultrasonics (2001), 2020, 47, 167-177.	1.3	4
44	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
45	Improving image contrast and accuracy in velocity estimation by convolution filters for intracardiac blood flow imaging. Ultrasonics, 2022, 120, 106650.	3.9	4
46	Statistical Analysis of Ultrasonic Scattered Echoes Enables the Non-invasive Measurement of Temperature Elevations inside Tumor Tissue during Oncological Hyperthermia. Ultrasound in Medicine and Biology, 2021, 47, 3301-3309.	1.5	3
47	Investigation on application of singular value decomposition filter in element domain for extraction of ultrasonic echoes from blood cells in jugular veins. Japanese Journal of Applied Physics, 2022, 61, SG1011.	1.5	3
48	Two-dimensional blood flow vector and wall shear stress of carotid artery obtained with dual-angle Doppler method. , 2016, , .		2
49	Improvement of spatial resolution of medical ultrasound images by constrained least-square method. Japanese Journal of Applied Physics, 2021, 60, SDDE16.	1.5	2
50	Time and frequency domain deconvolution for cross-sectional cultured cell observation using an acoustic impedance microscope. Ultrasonics, 2022, 119, 106601.	3.9	2
51	Suppression of reflected signals from substrate as clutters for cell measurements using acoustic impedance microscopy. Ultrasonics, 2022, 118, 106580.	3.9	2
52	Investigation on improving performance of adaptive beamformer by statistical analysis of ultrasonic echoes. Japanese Journal of Applied Physics, 2022, 61, SG1040.	1.5	2
53	3D ultrasound imaging by synthetic transmit aperture beamforming using a spherically curved array transducer. Japanese Journal of Applied Physics, 2022, 61, SG1034.	1.5	2
54	Enhancement of reflection and backscattering components by plane wave imaging for estimation of surface roughness. Japanese Journal of Applied Physics, 2022, 61, SG1025.	1.5	2

#	ARTICLE	IF	CITATIONS
55	Multiparametric characterization of a single cell by an ultrasound and optical combined microscope. , 2014, , .		1
56	Preliminary investigation on clutter filtering based on deep learning. Japanese Journal of Applied Physics, 2021, 60, SDDE21.	1.5	1
57	Investigation on effect of transmit condition on ultrasonic measurement of 2D motion velocity. Japanese Journal of Applied Physics, 2022, 61, SG1053.	1.5	1
58	Elasticity of artificial skin by measuring displacement induced by acoustic radiation force. , 2012, , .		0
59	Differentiation of vein and lymphatic vessel by photoacoustic imaging system with parabolic array transducer and tunable laser. , 2017, , .		0
60	Identification of vascular lumen by singular value decomposition filtering on blood flow velocity distribution. Choonpa Igaku, 2021, 48, 17-24.	0.0	0
61	A Basic Study of Visualization of Propagation Velocity Distribution Induced by Arterial Pulsation. The Proceedings of the Computational Mechanics Conference, 2014, 2014.27, 362-363.	0.0	0
62	2B42 Measurement of skin elasticity by high frequency ultrasound. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 327-328.	0.0	0
63	Genetic response to low-intensity ultrasound on mouse ST2 bone marrow stromal cells. Molecular Medicine Reports, 2020, 23, .	2.4	0
64	The Hybrid Optical and Photoacoustic Microscopy: a Novel System to Image Morphological and Photoacoustic Characteristics of Cells. , 2020, , .		0
65	Title is missing!. , 2020, 15, e0227393.		0
66	Title is missing!. , 2020, 15, e0227393.		0
67	Title is missing!. , 2020, 15, e0227393.		0
68	Title is missing!. , 2020, 15, e0227393.		0