Hideyuki Hasegawa

List of Publications by Year
in descending order

179	2,585	257450 24	276875 41
papers	citations	h-index	g-index

187	187	187	1306
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-frame-rate echocardiography using diverging transmit beams and parallel receive beamforming. Journal of Medical Ultrasonics (2001), 2011, 38, 129-140.	1.3	189
2	Elasticity Imaging of Atheroma With Transcutaneous Ultrasound. Circulation, 2003, 107, 3018-3021.	1.6	154
3	Simultaneous imaging of artery-wall strain and blood flow by high frame rate acquisition of RF signals. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2626-2639.	3.0	130
4	Improving accuracy in estimation of artery-wall displacement by referring to center frequency of RF echo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 52-63.	3.0	102
5	Low-Intensity Pulsed Ultrasound Induces Angiogenesis and Ameliorates Left Ventricular Dysfunction in a Porcine Model of Chronic Myocardial Ischemia. PLoS ONE, 2014, 9, e104863.	2.5	82
6	Low-Intensity Pulsed Ultrasound Enhances Angiogenesis and Ameliorates Left Ventricular Dysfunction in a Mouse Model of Acute Myocardial Infarction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1220-1229.	2.4	70
7	Measurement of regional pulse wave velocity using very high frame rate ultrasound. Journal of Medical Ultrasonics (2001), 2013, 40, 91-98.	1.3	59
8	Effect of subaperture beamforming on phase coherence imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1779-1790.	3.0	46
9	Ultrasonic Imaging of Propagation of Contraction and Relaxation in the Heart Walls at High Temporal Resolution. Japanese Journal of Applied Physics, 2007, 46, 4889.	1.5	44
10	Echo speckle imaging of blood particles with high-frame-rate echocardiography. Japanese Journal of Applied Physics, 2014, 53, 07KF08.	1.5	43
11	Evaluating the regional elastic modulus of a cylindrical shell with nonuniform wall thickness. Journal of Medical Ultrasonics (2001), 2004, 31, 81-90.	1.3	39
12	Ultrasonic Measurement of Transient Change in Stressâ€“Strain Property of Radial Arterial Wall Caused by Endothelium-Dependent Vasodilation. Japanese Journal of Applied Physics, 2008, 47, 4165-4169.	1.5	39
13	A novel method for evaluating human carotid artery elasticity: Possible detection of early stage atherosclerosis in subjects with type 2 diabetes. Atherosclerosis, 2008, 196, 391-397.	0.8	38
14	Reduction of influence of variation in center frequencies of RF echoes on estimation of artery-wall strain. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1921-1934.	3.0	38
15	Ultrasonic Measurement of Change in Elasticity due to Endothelium Dependent Relaxation Response by Accurate Detection of Artery-Wall Boundary. Japanese Journal of Applied Physics, 2007, 46, 4881.	1.5	33
16	Modified Phased Tracking Method for Measurement of Change in Thickness of Arterial Wall. Japanese Journal of Applied Physics, 2002, 41, 3563-3571.	1.5	32
17	Modification of the phased-tracking method for reduction of artifacts in estimated artery wall deformation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2050-2064.	3.0	30
18	Two-Dimensional Tracking of Heart Wall for Detailed Analysis of Heart Function at High Temporal and Spatial Resolutions. Japanese Journal of Applied Physics, 2010, 49, 07HF14.	1.5	30

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19	Measurement of Elastic Moduli of the Arterial Wall at Multiple Frequencies by Remote Actuation for Assessment of Viscoelasticity. Japanese Journal of Applied Physics, 2004, 43, 3197-3203.	1.5	29
20	Cross-Sectional Elasticity Imaging of Carotid Arterial Wall in Short-Axis Plane by Transcutaneous Ultrasound. Japanese Journal of Applied Physics, 2004, 43, 3220-3226.	1.5	27
21	Initial phantom study on estimation of speed of sound in medium using coherence among received echo signals. Journal of Medical Ultrasonics (2001), 2019, 46, 297-307.	1.3	27
22	Construction of Reference Data for Tissue Characterization of Arterial Wall Based on Elasticity Images. Japanese Journal of Applied Physics, 2005, 44, 4593-4597.	1.5	26
23	Effect of element directivity on adaptive beamforming applied to high-frame-rate ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 511-523.	3.0	26
24	Utilization of singular value decomposition in high-frame-rate cardiac blood flow imaging. Japanese Journal of Applied Physics, 2019, 58, SGGE02.	1.5	26
25	Estimation of scatterer size and acoustic concentration in sound field produced by linear phased array transducer. Japanese Journal of Applied Physics, 2015, 54, 07HF14.	1.5	25
26	Increasing Bandwidth of Ultrasound Radio Frequency Echoes Using Wiener Filter for Improvement of Accuracy in Measurement of Intimaâ€“Media Thickness. Japanese Journal of Applied Physics, 2013, 52, 07HF04.	1.5	24
27	Haloperidol aggravates transverse aortic constriction-induced heart failure via mitochondrial dysfunction. Journal of Pharmacological Sciences, 2016, 131, 172-183.	2.5	24
28	Apodized adaptive beamformer. Journal of Medical Ultrasonics (2001), 2017, 44, 155-165.	1.3	24
29	Ultrasonic Measurement of Minute Displacement of Object Cyclically Actuated by Acoustic Radiation Force. Japanese Journal of Applied Physics, 2003, 42, 4608-4612.	1.5	23
30	Temporal averaging of two-dimensional correlation functions for velocity vector imaging of cardiac blood flow. Journal of Medical Ultrasonics (2001), 2015, 42, 323-330.	1.3	22
31	Phase-Sensitive 2D Motion Estimators Using Frequency Spectra of Ultrasonic Echoes. Applied Sciences (Switzerland), 2016, 6, 195.	2.5	22
32	Enhancing effect of phase coherence factor for improvement of spatial resolution in ultrasonic imaging. Journal of Medical Ultrasonics (2001), 2016, 43, 19-27.	1.3	22
33	Detection of lumen-intima interface of posterior wall for measurement of elasticity of the human carotid artery. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 93-108.	3.0	21
34	Inhibition of Dystrophin Breakdown and Endothelial Nitric-Oxide Synthase Uncoupling Accounts for Cytoprotection by 3-[2-[4-(3-Chloro-2-methylphenyl)-1-piperazinyl]ethyl]-5,6-dimethoxy-1-(4-imidazolylmethyl)-1H-indazole Dihydrochloride 3.5 Hydrate (DY-9760e) in Left Ventricular Hypertrophied Mice. Journal of Pharmacology and Experimental Therapeutics, 2010, 332, 421-428.	2.5	20
35	Serum cystatin C level is associated with carotid arterial wall elasticity in subjects with type 2 diabetes mellitus: A potential marker of early-stage atherosclerosis. Diabetes Research and Clinical Practice, 2018, 139, 43-51.	2.8	20
36	Tissue Classification of Arterial Wall Based on Elasticity Image. Japanese Journal of Applied Physics, 2006, 45, 4732-4735.	1.5	19

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37	Carotid arterial elasticity is a sensitive atherosclerosis value reflecting visceral fat accumulation in obese subjects. Atherosclerosis, 2009, 206, 168-172.	0.8	19
38	High-frame-rate echocardiography with reduced sidelobe level. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2569-75.	3.0	19
39	Estimation of two-dimensional motion velocity using ultrasonic signals beamformed in Cartesian coordinate for measurement of cardiac dynamics. Japanese Journal of Applied Physics, 2018, 57, 07LF03.	1.5	19
40	Investigation of the estimation accuracy of two-step block matching methods using envelope and RF signals for two-dimensional blood flow vector imaging. Japanese Journal of Applied Physics, 2019, 58, SGGE10.	1.5	19
41	Estimation of speed of sound using coherence factor and signal-to-noise ratio for improvement of performance of ultrasonic beamformer. Japanese Journal of Applied Physics, 2020, 59, SKKE14.	1.5	19
42	Accurate Ultrasonic Measurement of Surface Profile Using Phase Shift of Echo and Inverse Filtering. Japanese Journal of Applied Physics, 2006, 45, 4727-4731.	1.5	18
43	Investigation of Frequency Characteristics in Cutting of Soft Tissue Using Prototype Ultrasonic Knives. Japanese Journal of Applied Physics, 2007, 46, 4793.	1.5	18
44	Phase-sensitive lateral motion estimator for measurement of artery-wall displacement- phantom study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 2450-2462.	3.0	18
45	Measurement of Internal Diameter Changes and Pulse Wave Velocity in Fetal Descending Aorta Using the Ultrasonic Phased-Tracking Method in Normal and Growth-Restricted Fetuses. Ultrasound in Medicine and Biology, 2015, 41, 1311-1319.	1.5	18
46	Automated Segmentation of Heart Wall Using Coherence Among Ultrasonic RF Echoes. Japanese Journal of Applied Physics, 2008, 47, 4155-4164.	1.5	17
47	Usefulness of measurement of carotid arterial wall elasticity distribution in detection of early-stage atherosclerotic lesions caused by cigarette smoking. Journal of Medical Ultrasonics (2001), 2006, 33, 203-210.	1.3	16
48	Generation of Strain Inside Objects Using Dual Acoustic Radiation Force. Japanese Journal of Applied Physics, 2006, 45, 4706-4711.	1.5	16
49	Ultrasonic Measurement of Strain Distribution Inside Object Cyclically Compressed by Dual Acoustic Radiation Force. Japanese Journal of Applied Physics, 2008, 47, 4193.	1.5	16
50	Improvement of penetration of modified amplitude and phase estimation beamformer. Journal of Medical Ultrasonics (2001), 2017, 44, 3-11.	1.3	16
51	Adaptive Beamformer Combined with Phase Coherence Weighting Applied to Ultrafast Ultrasound. Applied Sciences (Switzerland), 2018, 8, 204.	2.5	16
52	Measurement of Change in Wall Thickness of Cylindrical Shell Due to Cyclic Remote Actuation for Assessment of Viscoelasticity of Arterial Wall. Japanese Journal of Applied Physics, 2003, 42, 3255-3261.	1.5	15
53	A new concept of the contractionâ€“extension property of the left ventricular myocardium. Journal of Cardiology, 2014, 63, 313-319.	1.9	15
54	Improvement of range spatial resolution of medical ultrasound imaging by element-domain signal processing. Japanese Journal of Applied Physics, 2017, 56, 07JF02.	1.5	15

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55	Reduction of Influence of Decrease in Signal-to-Noise Ratio in Measurement of Change in Thickness of Arterial Wall Due to Heartbeat. Japanese Journal of Applied Physics, 2000, 39, 3257-3261.	1.5	14
56	Echo motion imaging with adaptive clutter filter for assessment of cardiac blood flow. Japanese Journal of Applied Physics, 2015, 54, 07HF09.	1.5	14
57	Converting Coherence to Signal-to-noise Ratio for Enhancement of Adaptive Ultrasound Imaging. Ultrasonic Imaging, 2020, 42, 27-40.	2.6	14
58	Impact of Lifestyle-Related Diseases on Carotid Arterial Wall Elasticity as Evaluated by an Ultrasonic Phased-Tracking Method in Japanese Subjects. Journal of Atherosclerosis and Thrombosis, 2009, 16, 782-791.	2.0	14
59	Spatial Distribution Measurement of Heart Wall Vibrations Generated by Remote Perturbation of Inner Pressure. Japanese Journal of Applied Physics, 2006, 45, 4718-4721.	1.5	13
60	Suppression of Grating Lobe Artifacts in Ultrasound Images Formed from Diverging Transmitting Beams by Modulation of Receiving Beams. Ultrasound in Medicine and Biology, 2013, 39, 681-691.	1.5	13
61	Comparison of ultrasonic motion estimators for vascular applications. Japanese Journal of Applied Physics, 2019, 58, SGGE16.	1.5	13
62	Basic study on estimation method of wall shear stress in common carotid artery using blood flow imaging. Japanese Journal of Applied Physics, 2020, 59, SKKE16.	1.5	13
63	Threshold Setting for Likelihood Function for Elasticity-Based Tissue Classification of Arterial Walls by Evaluating Variance in Measurement of Radial Strain. Japanese Journal of Applied Physics, 2008, 47, 4180-4187.	1.5	12
64	Improvement of accuracy in ultrasonic measurement of luminal surface roughness of carotid arterial wall by deconvolution filtering. Japanese Journal of Applied Physics, 2014, 53, 07KF19.	1.5	12
65	Correction of change in propagation time delay of pulse wave during flow-mediated dilation in ultrasonic measurement of arterial wall viscoelasticity. Japanese Journal of Applied Physics, 2014, 53, 07KF03.	1.5	12
66	Comparison of method using phase-sensitive motion estimator with speckle tracking method and application to measurement of arterial wall motion. Japanese Journal of Applied Physics, 2018, 57, 07LF11.	1.5	12
67	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
68	Left ventricular transmural systolic function by high-sensitivity velocity measurement â€œphased-tracking methodâ€•across the septum in doxorubicin cardiomyopathy. Ultrasound in Medicine and Biology, 2002, 28, 1395-1403.	1.5	11
69	Cross-Sectional Elasticity Imaging of Arterial Wall by Comparing Measured Change in Thickness with Model Waveform. Japanese Journal of Applied Physics, 2005, 44, 4588-4592.	1.5	11
70	Multi Element Diverging Beam from a Linear Array Transducer for Transverse Cross Sectional Imaging of Carotid Artery: Simulations and Phantom Vessel Validation. Japanese Journal of Applied Physics, 2011, 50, 07HF05.	1.5	11
71	Corticosteroids Mediate Heart Failure-Induced Depression through Reduced Ïƒ1-Receptor Expression. PLoS ONE, 2016, 11, e0163992.	2.5	11
72	Speckle reduction of medical ultrasound images using deep learning with fully convolutional network. Japanese Journal of Applied Physics, 2020, 59, SKKE06.	1.5	11

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73	Improvement of performance of minimum variance beamformer by introducing cross covariance estimate. Journal of Medical Ultrasonics (2001), 2020, 47, 203-210.	1.3	11
74	Change in Elasticity Caused by Flow-Mediated Dilation Measured Only for Intimaâ€“Media Region of Brachial Artery. Japanese Journal of Applied Physics, 2005, 44, 6297-6301.	1.5	10
75	Basic Study on Detection of Outer Boundary of Arterial Wall Using Its Longitudinal Motion. Japanese Journal of Applied Physics, 2007, 46, 4900.	1.5	10
76	Analysis of arterial wall motion for measurement of regional pulse wave velocity. Japanese Journal of Applied Physics, 2018, 57, 07LF01.	1.5	10
77	Advances in ultrasonography: image formation and quality assessment. Journal of Medical Ultrasonics (2001), 2021, 48, 377-389.	1.3	10
78	Measurement of Angular Dependence of Ultrasonic Echo for Estimation of Surface Roughness. Japanese Journal of Applied Physics, 2007, 46, 4873.	1.5	9
79	Tissue structure of arterial wall revealed with elasticity imaging. Journal of Medical Ultrasonics (2001), 2007, 34, 73-74.	1.3	9
80	High resolution wavenumber analysis for investigation of arterial pulse wave propagation. Japanese Journal of Applied Physics, 2016, 55, 07KF01.	1.5	9
81	Measurement of internal temperature in biological tissue specimen with deformation by statistical analysis of ultrasonic scattered echoes. Japanese Journal of Applied Physics, 2018, 57, 07LB17.	1.5	9
82	Improvement of high-range-resolution imaging by considering change in ultrasonic waveform during propagation. Japanese Journal of Applied Physics, 2018, 57, 07LF23.	1.5	9
83	Singular value decomposition filter for speckle reduction in adaptive ultrasound imaging. Japanese Journal of Applied Physics, 2019, 58, SGGE06.	1.5	9
84	Preliminary study on the separation of specular reflection and backscattering components using synthetic aperture beamforming. Journal of Medical Ultrasonics (2001), 2020, 47, 493-500.	1.3	9
85	Designing Beam Steering for Accurate Measurement of Intima-Media Thickness at Carotid Sinus. Japanese Journal of Applied Physics, 2006, 45, 4722-4726.	1.5	8
86	Optimal Region-of-Interest Settings for Tissue Characterization Based on Ultrasonic Elasticity Imaging. Ultrasound in Medicine and Biology, 2008, 34, 573-585.	1.5	8
87	Assessing Fetal Cardiac Function by Measuring Myocardial Radial Velocity Using the Phased-Tracking Method. Fetal Diagnosis and Therapy, 2015, 38, 126-134.	1.4	8
88	Impact of element pitch on synthetic aperture ultrasound imaging. Journal of Medical Ultrasonics (2001), 2016, 43, 317-325.	1.3	8
89	Anti-aliasing method for ultrasonic 2D phase-sensitive motion estimator. Japanese Journal of Applied Physics, 2020, 59, SKKE20.	1.5	8
90	Accuracy evaluation of 3D velocity estimation by multi-frequency phase-sensitive motion estimator under various specifications of matrix array probe. Japanese Journal of Applied Physics, 2020, 59, SKKE01.	1.5	8

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91	TBX5 R264K acts as a modifier to develop dilated cardiomyopathy in mice independently of T-box pathway. PLoS ONE, 2020, 15, e0227393.	2.5	8
92	Non-invasive estimation of human left ventricular end-diastolic pressure. Medical Engineering and Physics, 1998, 20, 485-488.	1.7	7
93	Frequency Analysis of Strain of Cylindrical Shell for Assessment of Viscosity. Japanese Journal of Applied Physics, 2005, 44, 4609-4614.	1.5	7
94	Fetal Myocardial Thickening Measured by Ultrasonic-Based Technique Called â€˜Phased-Tracking Methodâ€™. Fetal Diagnosis and Therapy, 2006, 21, 458-465.	1.4	7
95	Non-uniform distribution of the contraction/extension (Câ€“E) in the left ventricular myocardium related to the myocardial function. Journal of Cardiology, 2014, 64, 401-408.	1.9	7
96	Investigation of initial value dependence in the statistical analysis of ultrasonic scattered echoes for the non-invasive estimation of temperature distribution in biological tissue. Japanese Journal of Applied Physics, 2019, 58, SGGE09.	1.5	7
97	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
98	Temperature elevation in tissue detected in vivo based on statistical analysis of ultrasonic scattered echoes. Scientific Reports, 2020, 10, 9030.	3.3	7
99	Effects from correction of speed of sound in transmit and receive beamforming using focus beam. Japanese Journal of Applied Physics, 2021, 60, SDDE19.	1.5	7
100	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
101	Multi Element Diverging Beam from a Linear Array Transducer for Transverse Cross Sectional Imaging of Carotid Artery: Simulations and Phantom Vessel Validation. Japanese Journal of Applied Physics, 2011, 50, 07HF05.	1.5	7
102	Optimization of Condition of Ultrasonic Beam for Measurement of Small Change in Thickness of Arterial Wall. Japanese Journal of Applied Physics, 2002, 41, 3613-3618.	1.5	6
103	Simultaneous imaging of artery-wall strain and blood flow realized by high frame rate acquisition of RF echoes. , 2008, , .		6
104	Effect of frequency characteristic of excitation pulse on lateral spatial resolution in coded ultrasound imaging. Japanese Journal of Applied Physics, 2017, 56, 07JF16.	1.5	6
105	Measurement of shear wave propagation speed by estimation of two-dimensional wavenumbers using phase of particle velocity. Japanese Journal of Applied Physics, 2018, 57, 07LF07.	1.5	6
106	Iterative 2D Tissue Motion Tracking in Ultrafast Ultrasound Imaging. Applied Sciences (Switzerland), 2018, 8, 662.	2.5	6
107	Identification of vascular lumen by singular value decomposition filtering on blood flow velocity distribution. Journal of Medical Ultrasonics (2001), 2019, 46, 187-194.	1.3	6
108	Impact of spacing of ultrasound receiving beams on estimation of 2D motion velocity. Japanese Journal of Applied Physics, 2021, 60, SDDE07.	1.5	6

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109	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
110	Optimization of Correlation Kernel Size for Accurate Estimation of Myocardial Contraction and Relaxation. Japanese Journal of Applied Physics, 2012, 51, 07GF06.	1.5	6
111	Preliminary study on estimation of flow velocity vectors using focused transmit beams. Japanese Journal of Applied Physics, 2022, 61, SG1026.	1.5	6
112	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
113	Optimization of Correlation Kernel Size for Accurate Estimation of Myocardial Contraction and Relaxation. Japanese Journal of Applied Physics, 2012, 51, 07GF06.	1.5	5
114	Improvement of Automated Identification of the Heart Wall in Echocardiography by Suppressing Clutter Component. Japanese Journal of Applied Physics, 2013, 52, 07HF17.	1.5	5
115	In vitro experiment using porcine artery for evaluation of ultrasonic measurement of arterial luminal surface profile. Journal of Medical Ultrasonics (2001), 2014, 41, 431-437.	1.3	5
116	Deformability of the pulsating left ventricular wall: A new aspect elucidated by high resolution ultrasonic methods. Journal of Cardiology, 2017, 69, 462-470.	1.9	5
117	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
118	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
119	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
120	Characterization of blood mimicking fluid with ultrafast ultrasonic and optical image velocimeters. Japanese Journal of Applied Physics, 2022, 61, SG1067.	1.5	5
121	Accurate Estimation of Scattering Strength Distribution by Simultaneous Reception of Ultrasonic Echoes with Multichannel Transducer Array. Japanese Journal of Applied Physics, 2007, 46, 4813-4819.	1.5	4
122	Improved imaging of the carotid artery in the short-axis plane by a mechanical scanning ultrasonic probe. Journal of Medical Ultrasonics (2001), 2007, 34, 23-27.	1.3	4
123	Measurement of displacement and strain in biological tissue generated by ultrasonic dual acoustic radiation force. Journal of Medical Ultrasonics (2001), 2012, 39, 279-281.	1.3	4
124	Expanding aliasing limit in measurement of tissue velocity using autocorrelation method. Journal of Medical Ultrasonics (2001), 2014, 41, 151-153.	1.3	4
125	Special Issue on Ultrafast Ultrasound Imaging and Its Applications. Applied Sciences (Switzerland), 2018, 8, 1110.	2.5	4
126	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

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127	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
128	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
129	Accurate Estimation of Carotid Luminal Surface Roughness Using Ultrasonic Radio-Frequency Echo. Japanese Journal of Applied Physics, 2012, 51, 07GF08.	1.5	4
130	Improving image contrast and accuracy in velocity estimation by convolution filters for intracardiac blood flow imaging. Ultrasonics, 2022, 120, 106650.	3.9	4
131	Systolic Heterogeneity of Transmural Myocardial Function in Normal Subjects: Physiological Functional Heterogeneity.. Tohoku Journal of Experimental Medicine, 2002, 197, 183-187.	1.2	3
132	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
133	Novel Evidence Concerning Lacrimal Sac Movement Using Ultra-High-Frequency Ultrasound Examinations of Lacrimal Drainage Systems. Ophthalmic Plastic and Reconstructive Surgery, 2021, 37, 334-340.	0.8	3
134	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
135	Relationship between upper limb peripheral artery stiffness using the radial artery and atherosclerotic parameters. Journal of Medical Ultrasonics (2001), 2009, 36, 129-135.	1.3	2
136	Phase coherence factor with sub-aperture beamforming. , 2014, , .		2
137	Two dimensional blood velocity estimation using high frame rate echocardiography with transverse oscillation approach. , 2015, , .		2
138	Improvement of spatial resolution of medical ultrasound images by constrained least-square method. Japanese Journal of Applied Physics, 2021, 60, SDDE16.	1.5	2
139	Suppression of reflected signals from substrate as clutters for cell measurements using acoustic impedance microscopy. Ultrasonics, 2022, 118, 106580.	3.9	2
140	Fundamentals and applications of Doppler ultrasound. Choonpa Igaku, 2016, 43, 411-415.	0.0	2
141	Investigation on improving performance of adaptive beamformer by statistical analysis of ultrasonic echoes. Japanese Journal of Applied Physics, 2022, 61, SG1040.	1.5	2
142	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
143	Elasticity imaging of atheroma with transcutaneous ultrasound both in longitudinal-axis and short-axis planes. International Congress Series, 2004, 1274, 64-74.	0.2	1
144	Measurement of nonlinear property of artery wall using remote cyclic actuation. Journal of Medical Ultrasonics (2001), 2006, 33, 143-151.	1.3	1

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145	Measurement of Angular Dependence of Ultrasonic Scattering from Wire Phantom Mimicking Myocardial Fiber. Japanese Journal of Applied Physics, 2007, 46, 4897.	1.5	1
146	Imaging of Gaps in Digital Joints by Measurement of Ultrasound Transmission Using a Linear Array. Ultrasound in Medicine and Biology, 2009, 35, 382-394.	1.5	1
147	Displacement estimation of arterial wall from multiple directions by utilizing diverging transmit beam for synthetic aperture ultrasound imaging. , 2013, , .		1
148	Diagnostic ultrasound widespread. Journal of Medical Ultrasonics (2001), 2018, 45, 1-1.	1.3	1
149	Plane-Wave Phase Coherence Imaging with Singular Value Decomposition. , 2018, , .		1
150	Initial Study on Mitral Valve Detection from Echocardiography Sequences. , 2018, , .		1
151	Construction of an ultrasound phantom with micrometer-sized wall-less vessels. , 2019, , .		1
152	Very high frame rate ultrasound for medical diagnostic imaging. AIP Conference Proceedings, 2019, , .	0.4	1
153	Preliminary investigation on clutter filtering based on deep learning. Japanese Journal of Applied Physics, 2021, 60, SDDE21.	1.5	1
154	Attempt to develop a sound-based examination monitoring system. Acoustical Science and Technology, 2021, 42, 226-227.	0.5	1
155	Signal Processing and Extensive Characterization Method of Heart Sounds Based on Wavelet Analysis. International Review of Electrical Engineering, 2016, 11, 55.	0.2	1
156	Investigation on effect of transmit condition on ultrasonic measurement of 2D motion velocity. Japanese Journal of Applied Physics, 2022, 61, SG1053.	1.5	1
157	Measurements of regional propagation velocities of forward and reflected pulse waves by high frame rate ultrasonic imaging. , 2012, , .		0
158	Sidelobe reduction in high frame rate echocardiography. , 2012, , .		0
159	HIGH FRAME RATE ULTRASONIC IMAGING OF ARTERIES FOR DETAILED ANALYSES OF DYNAMICS. , 2012, , .		0
160	Ultrasonic actuation of biological tissues using dual acoustic radiation force for assessment of elastic properties. , 2012, , .		0
161	Rapid change in environment for research on diagnostic ultrasound. Journal of Medical Ultrasonics (2001), 2013, 40, 89-89.	1.3	0
162	IEEE PIC 2016 Keynote Speech (1): Signal processing techniques in medical ultrasound imaging. , 2016, , .		0

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163	Adaptive beamforming applied to transverse oscillation. , 2017, , .		0
164	Recent Developments in Adaptive Beamforming. , 2019, , .		0
165	Feasibility of Non-invasive Pulse Pressure Measurement Using the Phased-Tracking Method. Ultrasound in Medicine and Biology, 2020, 46, 2711-2716.	1.5	0
166	Identification of vascular lumen by singular value decomposition filtering on blood flow velocity distribution. Choonpa Igaku, 2021, 48, 17-24.	0.0	0
167	Nano-Particle Imaging for Magnetic Hyperthermia. Thermal Medicine, 2021, 37, 106-107.	0.1	0
168	Towards Transcutaneous Characterization of Atherosclerotic Plaque. Neurosonology, 2001, 14, 42-46.	0.0	0
169	ULTRASONIC CROSS-SECTIONAL IMAGING AND MEASUREMENT OF MOTION AND MECHANICAL PROPERTIES OF ARTERIAL WALLS. , 2006, , .		0
170	Imaging of transient in myocardial contraction and relaxation by measuring strain rate at high temporal resolution. Choonpa Igaku, 2007, 34, 439-448.	0.0	0
171	ELASTICITY-BASED TISSUE CHARACTERIZATION OF ARTERIAL WALL. , 2009, , .		0
172	Detection of Boundaries of Carotid Arterial Wall by Analyzing Ultrasonic RF Signals. Japanese Journal of Applied Physics, 2012, 51, 07GF07.	1.5	0
173	High-frame-rate echocardiography using diverging transmit beams and parallel receive beamforming. Choonpa Igaku, 2014, 41, 375-388.	0.0	0
174	2B43 Fast ultrasonic imaging of echo speckle from blood particle for visualization of cardiac blood flow pattern. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 329-330.	0.0	0
175	Measurement of regional pulse wave velocity using very high frame rate ultrasound. Choonpa Igaku, 2015, 42, 701-709.	0.0	0
176	Phased-tracking method. Choonpa Igaku, 2016, 43, 483-490.	0.0	0
177	Temporal averaging of two-dimensional correlation functions for velocity vector imaging of cardiac blood flow. Choonpa Igaku, 2017, 44, 275-285.	0.0	0
178	Enhancing effect of phase coherence factor for improvement of spatial resolution in ultrasonic imaging. Choonpa Igaku, 2018, 45, 47-55.	0.0	0
179	Genetic response to lowâ€‘intensity ultrasound onÂmouse ST2 bone marrow stromal cells. Molecular Medicine Reports, 2020, 23, .	2.4	0