

Naotaka Nitta

List of Publications by Year in descending order

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676
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759233

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89
all docs

89
docs citations

89
times ranked

542
citing authors

#	ARTICLE	IF	CITATIONS
1	Real time tissue elasticity imaging using the combined autocorrelation method. Journal of Medical Ultrasonics (2001), 2002, 29, 119-128.	1.3	163
2	High-speed Freehand Tissue Elasticity Imaging for Breast Diagnosis. Japanese Journal of Applied Physics, 2003, 42, 3265-3270.	1.5	53
3	Long-Term Results of Cell-Free Biodegradable Scaffolds for In Situ Tissue-Engineering Vasculature: In a Canine Inferior Vena Cava Model. PLoS ONE, 2012, 7, e35760.	2.5	48
4	Estimation of Nonlinear Elasticity Parameter of Tissues by Ultrasound. Japanese Journal of Applied Physics, 2002, 41, 3572-3578.	1.5	29
5	In vivo isotropic 3D diffusion tensor mapping of the rat brain using diffusion-weighted 3D MP-RAGE MRI. Magnetic Resonance Imaging, 2006, 24, 287-293.	1.8	18
6	Real-Time Three-Dimensional Velocity Vector Measurement using the Weighted Phase Gradient Method. Japanese Journal of Applied Physics, 1998, 37, 3058-3063.	1.5	16
7	A Method of Tissue Elasticity Estimation Based on Three-Dimensional Displacement Vector. Japanese Journal of Applied Physics, 2000, 39, 3225-3229.	1.5	16
8	Volumetric q-space imaging by 3D diffusion-weighted MRI. Magnetic Resonance Imaging, 2008, 26, 437-445.	1.8	16
9	Non-invasive speed of sound measurement in cartilage by use of combined magnetic resonance imaging and ultrasound: an initial study. Radiological Physics and Technology, 2013, 6, 480-485.	1.9	16
10	Experimental system for in-situ measurement of temperature rise in animal tissue under exposure to acoustic radiation force impulse. Journal of Medical Ultrasonics (2001), 2015, 42, 39-46.	1.3	16
11	Correlation between apparent diffusion coefficient and viscoelasticity of articular cartilage in a porcine model. Skeletal Radiology, 2012, 41, 1087-1092.	2.0	13
12	Myocardial Strain Imaging Based on Two-Dimensional Displacement Vector Measurement. Japanese Journal of Applied Physics, 2004, 43, 3249-3255.	1.5	12
13	A review of physical and engineering factors potentially affecting shear wave elastography. Journal of Medical Ultrasonics (2001), 2021, 48, 403-414.	1.3	12
14	A visualization of nonlinear elasticity property of tissues by ultrasound. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi) Tj ETQqO 0 0 rgB6, Overlock 110 Tf 50 2		
15	The effect of ultrasound with acoustic radiation force on rabbit lung tissue: a preliminary study. Journal of Medical Ultrasonics (2001), 2016, 43, 481-485.	1.3	11
16	Accuracy improvement of multimodal measurement of speed of sound based on image processing. Japanese Journal of Applied Physics, 2017, 56, 07JF17.	1.5	11
17	T2 and Apparent Diffusion Coefficient of MRI Reflect Maturation of Tissue-Engineered Auricular Cartilage Subcutaneously Transplanted in Rats. Tissue Engineering - Part C: Methods, 2016, 22, 429-438.	2.1	10
18	Composition and acoustic properties in a cartilage phantom. Japanese Journal of Applied Physics, 2019, 58, SGGE21.	1.5	10

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19	Relation between statistical properties of sound speed distribution and average sound speed estimation. Japanese Journal of Applied Physics, 2021, 60, SDDE18.	1.5	10
20	Ultrasonic Measurement of Fluid Viscosity for Blood Characterization. Japanese Journal of Applied Physics, 2005, 44, 4602-4608.	1.5	9
21	Magnetic resonance elastography using an air ball-actuator. Magnetic Resonance Imaging, 2013, 31, 939-946.	1.8	9
22	The arrhythmogenic effect of ultrasonic exposure with acoustic radiation force (ARF) impulse on the rabbit heart with ultrasound contrast agent perfluorobutane. Journal of Medical Ultrasonics (2001), 2015, 42, 47-50.	1.3	9
23	Experimental Investigation of 3-D Blood Flow Velocity Measurement. Japanese Journal of Applied Physics, 1996, 35, 3126-3130.	1.5	8
24	Ultrasonic measurement of sound velocity fluctuations in biological tissue due to ultrasonic heating and estimation of thermo-physical properties. Journal of Medical Ultrasonics (2001), 2019, 46, 35-43.	1.3	8
25	Basic investigation on identification of tissue composition based on propagation speeds of longitudinal and shear waves. Japanese Journal of Applied Physics, 2022, 61, SG1023.	1.5	8
26	Fundamental Study on Activation of Aminated Titanium Dioxide Composite by Low-Intensity Focused Ultrasound Irradiation in Anti-Infective Catheter System. Japanese Journal of Applied Physics, 2010, 49, 07HF24.	1.5	7
27	Ultrasound exposure (mechanical index 1.8) with acoustic radiation force impulse evokes extrasystolic waves in rabbit heart under concomitant administration of an ultrasound contrast agent. Journal of Medical Ultrasonics (2001), 2016, 43, 3-7.	1.3	7
28	Assessment of vulnerable coronary plaque by intravascular elasticity imaging. , 0, , .		6
29	Elasticity Evaluation of Regenerating Cartilage Sample Based on Laser Doppler Measurement of Ultrasonic Particle Velocity. Japanese Journal of Applied Physics, 2012, 51, 07GF15.	1.5	6
30	Application of the novel estimation method by shear wave elastography using vibrator to human skeletal muscle. Scientific Reports, 2020, 10, 22248.	3.3	6
31	Hysteresis parameter imaging of soft tissue under quasi-static deformation. , 0, , .		5
32	Myocardial strain imaging based on three-dimensional motion tracking. , 0, , .		5
33	Recent progress of ultrasound elasticity imaging technology. International Congress Series, 2004, 1274, 59-63.	0.2	5
34	Temperature elevation of biological tissue model exposed by focused ultrasound with acoustic radiation force. , 2012, , .		5
35	Direct measurement of speed of sound in cartilage in situ using ultrasound and magnetic resonance images. , 2013, 2013, 6063-6.		5
36	Relation between speed of sound measured by using ultrasound and magnetic resonance images and elasticity in tissue-engineered cartilage. , 2015, , .		5

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37	Clinical assessment of real-time, freehand elasticity imaging system based on the combined autocorrelation method. , 0, , .		4
38	Pressure Gradient Estimation Based on Ultrasonic Blood Flow Measurement. Japanese Journal of Applied Physics, 2006, 45, 4740-4748.	1.5	4
39	Calibration Method in Elasticity Evaluation of Regenerating Cartilage Based on Ultrasonic Particle Velocity. Japanese Journal of Applied Physics, 2013, 52, 07HF24.	1.5	4
40	New polymer-based phantom for photoacoustic imaging. Proceedings of SPIE, 2014, , .	0.8	4
41	Study on effectiveness of anti-infective system using a planar transducer irradiating low-intensity ultrasound to titanium dioxide particles. Japanese Journal of Applied Physics, 2020, 59, SKKE18.	1.5	4
42	Tissue elasticity imaging based on combined autocorrelation method and 3-D tissue model. , 0, , .		3
43	Tissue elasticity reconstruction based on three-dimensional displacement data estimated by the weighted phase gradient method. , 0, , .		3
44	Quantitative assessment and imaging of viscoelastic properties of soft tissue. , 0, , .		3
45	Basic Investigation of Three-Dimensional Ultrasound Tissue Viscoelasticity Microscope. Japanese Journal of Applied Physics, 2007, 46, 4851.	1.5	3
46	Adaptive Estimation of Intravascular Shear Rate Based on Parameter Optimization. Japanese Journal of Applied Physics, 2008, 47, 4209-4214.	1.5	3
47	In vitro secretion of TNF- α from bone marrow mononuclear cells incubated on amino group modified TiO ₂ nano-composite under ultrasound irradiation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 173, 191-194.	3.5	3
48	Interpretation of Physical Meaning of Speed of Sound in Cartilage Tissue: Through Comparison with Elasticity and Magnetic Resonance Parameters. , 2018, , .		3
49	Acoustic radiation force impulse under clinical conditions with single infusion of ultrasound contrast agent evoking arrhythmias in rabbit heart. Journal of Medical Ultrasonics (2001), 2021, 48, 137-144.	1.3	3
50	A new imaging technique of 3-D velocity vector distribution using 2-D phased array probe. , 0, , .		2
51	Coronary artery characterization based on tissue elasticity imaging - in vivo assessment. , 0, , .		2
52	A feasibility study of prostate needle biopsy supported by freehand elasticity imaging. , 0, , .		2
53	Intravascular shear stress imaging based on ultrasonic velocity vector measurement. , 0, , .		2
54	Hematocrit evaluation based on ultrasonic estimations of shear rate and viscosity in blood flow. , 2009, , .		2

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55	Characteristic X-ray absorptiometry applied to the assessment of tissue-engineered cartilage development. Journal of X-Ray Science and Technology, 2015, 23, 489-502.	1.0	2
56	Development of a Simulator of Backscattered Signals from Inhomogeneous Medium for Speed of Sound Measurement and Imaging. , 2019, , .		2
57	A Novel Ultrasonic Imaging of Hemodynamic Force Distribution Based on Velocity Measurement. , 2007, , 1563-1566.		2
58	In Vivo Temperature Rise Measurements of Rabbit Liver and Femur Bone Surface Exposed to an Acoustic Radiation Force Impulse. Ultrasound in Medicine and Biology, 2022, 48, 1240-1255.	1.5	2
59	7C-3 In Vivo Assessment Method of Tissue-Engineered Vascular Wall Based on Quantitative Elastic Modulus Measurement. , 2007, , .		1
60	Ultrasonic measurement of vascular scaffold elasticity using catheter system. , 2008, 2008, 5298-301.		1
61	Development of in vivo measurement system for temperature rise in animal tissue under exposure to ultrasound with acoustic radiation force. , 2013, , .		1
62	In vivo measurement of temperature rise in living rabbit's liver exposed to ultrasound with acoustic radiation force. , 2014, , .		1
63	Development of a robust diffusion-MR elastography (dMRE) technique to mitigate intravoxel phase dispersion. Magnetic Resonance Imaging, 2018, 54, 160-170.	1.8	1
64	Intervendor variability of carotid intima-media thickness measurement: validation study using newly developed ultrasound phantom. Journal of Medical Ultrasonics (2001), 2020, 47, 155-165.	1.3	1
65	Average Sound Speed Estimation Using Backscattered Signals from Inhomogeneous Media and its Error Analysis. , 2020, , .		1
66	A new half-Fourier image reconstruction for MRI. , 2007, , 1583-1586.		1
67	Comparison of Longitudinal and Shear Wave Speeds Ultrasonically Measured in Agar-Glycerol Phantoms. , 2021, , .		1
68	Experimental study on the reconstruction of elastic modulus distribution based on the 3-D displacement vector. , 0, , .		0
69	Imaging of Tissue Elastic Modulus Distribution Base on Estimated 3-D Displacement Vector. , 2002, , 457-460.		0
70	S13-02 Enhanced method for determining vulnerable coronary plaque using strain power imaging of intravascular ultrasound. International Journal of Cardiology, 2004, 97, S20.	1.7	0
71	Breast Tissue Assessments Based on High Order Mechanical Properties. , 2005, , 50-54.		0
72	P4F-5 Microscopic Measurement of Three-Dimensional Distribution of Tissue Viscoelasticity. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0

#	ARTICLE	IF	CITATIONS
73	Fat-saturated Diffusion-weighted Imaging of the Rat Pelvis using Three-Dimensional MP-RAGE MR sequence. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2038-41.	0.5	0
74	Strategy for Tissue-Engineering Vasculature with Biodegradable Scaffold in Congenital Heart Diseases. Journal of Cardiac Failure, 2011, 17, S130.	1.7	0
75	Experimental verification of blood characterization based on ultrasonic blood flow measurement. , 2011, , .		0
76	Intervendor Variability of Carotid Intima-Media Thickness Measurement: Validation Study using Newly Developed Ultrasound Phantom. Choonpa Igaku, 2021, 48, 81-90.	0.0	0
77	Effect of Particle Types on the Production of Reactive Oxygen Species in Anti-Infective System with Ultrasound Stimulation. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 1547.	1.4	0
78	Ultrasonic Imaging of Hemodynamic Force in Carotid Blood Flow. Acoustical Imaging, 2008, , 51-57.	0.2	0
79	Microscopic Measurement of Three-Dimensional Distribution of Tissue Viscoelasticity. Acoustical Imaging, 2008, , 11-17.	0.2	0
80	Small isotropic 3D diffusion tensor mapping of the rat brain using water-excitation diffusion-weighted 3D MP-RAGE MR sequence. , 2007, , 1447-1450.		0
81	Experimental Investigation of 2D Myocardial Strain Imaging. , 2007, , 1587-1590.		0
82	Isotropic q-space Analytical map using 3D Diffusion MR Imaging. , 2007, , 2443-2446.		0
83	On the publication of the special feature on recent progress in basic research useful for the interpretation of ultrasound diagnostic images. Journal of Medical Ultrasonics (2001), 2021, 48, 373-375.	1.3	0
84	Toward the development of new ultrasound diagnostic technologies. Journal of Medical Ultrasonics (2001), 2022, 49, 123-124.	1.3	0