

# Naotaka Nitta

## List of Publications by Year in descending order

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84  
papers

676  
citations

759233

12  
h-index

642732

23  
g-index

89  
all docs

89  
docs citations

89  
times ranked

542  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Toward the development of new ultrasound diagnostic technologies. Journal of Medical Ultrasonics (2001), 2022, 49, 123-124.	1.3	0
4	Intervendor Variability of Carotid Intima-Media Thickness Measurement: Validation Study using Newly Developed Ultrasound Phantom. Choonpa Igaku, 2021, 48, 81-90.	0.0	0
5	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
6	Relation between statistical properties of sound speed distribution and average sound speed estimation. Japanese Journal of Applied Physics, 2021, 60, SDDE18.	1.5	10
7	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
8	A review of physical and engineering factors potentially affecting shear wave elastography. Journal of Medical Ultrasonics (2001), 2021, 48, 403-414.	1.3	12
9	Comparison of Longitudinal and Shear Wave Speeds Ultrasonically Measured in Agar-Glycerol Phantoms. , 2021, , .		1
10	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
11	Application of the novel estimation method by shear wave elastography using vibrator to human skeletal muscle. Scientific Reports, 2020, 10, 22248.	3.3	6
12	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
13	Average Sound Speed Estimation Using Backscattered Signals from Inhomogeneous Media and its Error Analysis. , 2020, , .		1
14	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
15	Composition and acoustic properties in a cartilage phantom. Japanese Journal of Applied Physics, 2019, 58, SGGE21.	1.5	10
16	Development of a Simulator of Backscattered Signals from Inhomogeneous Medium for Speed of Sound Measurement and Imaging. , 2019, , .		2
17	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
18	Interpretation of Physical Meaning of Speed of Sound in Cartilage Tissue: Through Comparison with Elasticity and Magnetic Resonance Parameters. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Development of a robust diffusion-MR elastography (dMRE) technique to mitigate intravoxel phase dispersion. <i>Magnetic Resonance Imaging</i> , 2018, 54, 160-170.	1.8	1
20	Accuracy improvement of multimodal measurement of speed of sound based on image processing. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 07JF17.	1.5	11
21	T2 and Apparent Diffusion Coefficient of MRI Reflect Maturation of Tissue-Engineered Auricular Cartilage Subcutaneously Transplanted in Rats. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 429-438.	2.1	10
22	The effect of ultrasound with acoustic radiation force on rabbit lung tissue: a preliminary study. <i>Journal of Medical Ultrasonics (2001)</i> , 2016, 43, 481-485.	1.3	11
23	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. <i>Journal of Medical Ultrasonics (2001)</i> , 2016, 43, 3-7.	1.3	7
24	Characteristic X-ray absorptiometry applied to the assessment of tissue-engineered cartilage development. <i>Journal of X-Ray Science and Technology</i> , 2015, 23, 489-502.	1.0	2
25	Relation between speed of sound measured by using ultrasound and magnetic resonance images and elasticity in tissue-engineered cartilage. , 2015, , .		5
26	Experimental system for in-situ measurement of temperature rise in animal tissue under exposure to acoustic radiation force impulse. <i>Journal of Medical Ultrasonics (2001)</i> , 2015, 42, 39-46.	1.3	16
27	The arrhythmogenic effect of ultrasonic exposure with acoustic radiation force (ARF) impulse on the rabbit heart with ultrasound contrast agent perfluorobutane. <i>Journal of Medical Ultrasonics (2001)</i> , 2015, 42, 47-50.	1.3	9
28	In vivo measurement of temperature rise in living rabbit's liver exposed to ultrasound with acoustic radiation force. , 2014, , .		1
29	New polymer-based phantom for photoacoustic imaging. <i>Proceedings of SPIE</i> , 2014, , .	0.8	4
30	Non-invasive speed of sound measurement in cartilage by use of combined magnetic resonance imaging and ultrasound: an initial study. <i>Radiological Physics and Technology</i> , 2013, 6, 480-485.	1.9	16
31	Magnetic resonance elastography using an air ball-actuator. <i>Magnetic Resonance Imaging</i> , 2013, 31, 939-946.	1.8	9
32	Calibration Method in Elasticity Evaluation of Regenerating Cartilage Based on Ultrasonic Particle Velocity. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 07HF24.	1.5	4
33	Direct measurement of speed of sound in cartilage in situ using ultrasound and magnetic resonance images. , 2013, 2013, 6063-6.		5
34	Development of in vivo measurement system for temperature rise in animal tissue under exposure to ultrasound with acoustic radiation force. , 2013, , .		1
35	Elasticity Evaluation of Regenerating Cartilage Sample Based on Laser Doppler Measurement of Ultrasonic Particle Velocity. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 07GF15.	1.5	6
36	Temperature elevation of biological tissue model exposed by focused ultrasound with acoustic radiation force. , 2012, , .		5

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37	Correlation between apparent diffusion coefficient and viscoelasticity of articular cartilage in a porcine model. <i>Skeletal Radiology</i> , 2012, 41, 1087-1092.	2.0	13
38	Long-Term Results of Cell-Free Biodegradable Scaffolds for In Situ Tissue-Engineering Vasculature: In a Canine Inferior Vena Cava Model. <i>PLoS ONE</i> , 2012, 7, e35760.	2.5	48
39	Strategy for Tissue-Engineering Vasculature with Biodegradable Scaffold in Congenital Heart Diseases. <i>Journal of Cardiac Failure</i> , 2011, 17, S130.	1.7	0
40	Experimental verification of blood characterization based on ultrasonic blood flow measurement. , 2011, , .		0
41	In vitro secretion of TNF- $\alpha$ from bone marrow mononuclear cells incubated on amino group modified TiO <sub>2</sub> nano-composite under ultrasound irradiation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 173, 191-194.	3.5	3
42	Fundamental Study on Activation of Aminated Titanium Dioxide Composite by Low-Intensity Focused Ultrasound Irradiation in Anti-Infective Catheter System. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 07HF24.	1.5	7
43	Hematocrit evaluation based on ultrasonic estimations of shear rate and viscosity in blood flow. , 2009, , .		2
44	Volumetric q-space imaging by 3D diffusion-weighted MRI. <i>Magnetic Resonance Imaging</i> , 2008, 26, 437-445.	1.8	16
45	Ultrasonic measurement of vascular scaffold elasticity using catheter system. , 2008, 2008, 5298-301.		1
46	Adaptive Estimation of Intravascular Shear Rate Based on Parameter Optimization. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 4209-4214.	1.5	3
47	Ultrasonic Imaging of Hemodynamic Force in Carotid Blood Flow. <i>Acoustical Imaging</i> , 2008, , 51-57.	0.2	0
48	Microscopic Measurement of Three-Dimensional Distribution of Tissue Viscoelasticity. <i>Acoustical Imaging</i> , 2008, , 11-17.	0.2	0
49	Basic Investigation of Three-Dimensional Ultrasound Tissue Viscoelasticity Microscope. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 4851.	1.5	3
50	P4F-5 Microscopic Measurement of Three-Dimensional Distribution of Tissue Viscoelasticity. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007, , .	0.0	0
51	Fat-saturated Diffusion-weighted Imaging of the Rat Pelvis using Three-Dimensional MP-RAGE MR sequence. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 2038-41.	0.5	0
52	7C-3 In Vivo Assessment Method of Tissue-Engineered Vascular Wall Based on Quantitative Elastic Modulus Measurement. , 2007, , .		1
53	Small isotropic 3D diffusion tensor mapping of the rat brain using water-excitation diffusion-weighted 3D MP-RAGE MR sequence. , 2007, , 1447-1450.		0
54	A Novel Ultrasonic Imaging of Hemodynamic Force Distribution Based on Velocity Measurement. , 2007, , 1563-1566.		2

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55	A new half-Fourier image reconstruction for MRI. , 2007, , 1583-1586.		1
56	Experimental Investigation of 2D Myocardial Strain Imaging. , 2007, , 1587-1590.		0
57	Isotropic q-space Analytical map using 3D Diffusion MR Imaging. , 2007, , 2443-2446.		0
58	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
59	Pressure Gradient Estimation Based on Ultrasonic Blood Flow Measurement. Japanese Journal of Applied Physics, 2006, 45, 4740-4748.	1.5	4
60	Ultrasonic Measurement of Fluid Viscosity for Blood Characterization. Japanese Journal of Applied Physics, 2005, 44, 4602-4608.	1.5	9
61	Breast Tissue Assessments Based on High Order Mechanical Properties. , 2005, , 50-54.		0
62	Myocardial Strain Imaging Based on Two-Dimensional Displacement Vector Measurement. Japanese Journal of Applied Physics, 2004, 43, 3249-3255.	1.5	12
63	Recent progress of ultrasound elasticity imaging technology. International Congress Series, 2004, 1274, 59-63.	0.2	5
64	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
65	High-speed Freehand Tissue Elasticity Imaging for Breast Diagnosis. Japanese Journal of Applied Physics, 2003, 42, 3265-3270.	1.5	53
66	Estimation of Nonlinear Elasticity Parameter of Tissues by Ultrasound. Japanese Journal of Applied Physics, 2002, 41, 3572-3578.	1.5	29
67	Imaging of Tissue Elastic Modulus Distribution Base on Estimated 3-D Displacement Vector. , 2002, , 457-460.		0
68	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 O O rgB6, Overlock110 Tf 50 2		0
69	Real time tissue elasticity imaging using the combined autocorrelation method. Journal of Medical Ultrasonics (2001), 2002, 29, 119-128.	1.3	163
70	A Method of Tissue Elasticity Estimation Based on Three-Dimensional Displacement Vector. Japanese Journal of Applied Physics, 2000, 39, 3225-3229.	1.5	16
71	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
72	Experimental Investigation of 3-D Blood Flow Velocity Measurement. Japanese Journal of Applied Physics, 1996, 35, 3126-3130.	1.5	8

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73	Tissue elasticity imaging based on combined autocorrelation method and 3-D tissue model. , 0, , .		3
74	A new imaging technique of 3-D velocity vector distribution using 2-D phased array probe. , 0, , .		2
75	Tissue elasticity reconstruction based on three-dimensional displacement data estimated by the weighted phase gradient method. , 0, , .		3
76	Experimental study on the reconstruction of elastic modulus distribution based on the 3-D displacement vector. , 0, , .		0
77	Quantitative assessment and imaging of viscoelastic properties of soft tissue. , 0, , .		3
78	Coronary artery characterization based on tissue elasticity imaging - in vivo assessment. , 0, , .		2
79	Hysteresis parameter imaging of soft tissue under quasi-static deformation. , 0, , .		5
80	A feasibility study of prostate needle biopsy supported by freehand elasticity imaging. , 0, , .		2
81	Clinical assessment of real-time, freehand elasticity imaging system based on the combined autocorrelation method. , 0, , .		4
82	Myocardial strain imaging based on three-dimensional motion tracking. , 0, , .		5
83	Assessment of vulnerable coronary plaque by intravascular elasticity imaging. , 0, , .		6
84	Intravascular shear stress imaging based on ultrasonic velocity vector measurement. , 0, , .		2