Mami Matsukawa

List of Publications by Year in descending order

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235	2,633	218677	289244
papers	citations	26 h-index	40 g-index

263	263	263	1235
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Relationship between liquid crystal layer thickness and variable-focusing characteristics of an ultrasound liquid crystal lens. Japanese Journal of Applied Physics, 2022, 61, SG1013.	1.5	7
2	Signal Amplification of the Transient Response Measured by the Subnanosecond Pumpâ€“Probe Method Based on Surface Plasmon Resonance. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2152-2161.	3.0	2
3	Study on photoacoustic properties of bovine cortical bone. Japanese Journal of Applied Physics, 2022, 61, SG1019.	1.5	7
4	Piezoelectric and Opto-Acoustic Material Properties of Bone. Advances in Experimental Medicine and Biology, 2022, 1364, 319-346.	1.6	1
5	Optical evaluation of a double-layered ultrasound liquid crystal lens. Journal of Applied Physics, 2022, 131, .	2.5	3
6	Anisotropic Longitudinal Wave Propagation in Swine Skull. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 65-71.	3.0	4
7	Site dependence of ultrasonically induced electrical potentials in bone. JASA Express Letters, 2021, 1, 012002.	1.1	1
8	Ultrasound liquid crystal lens with enlarged aperture using traveling waves. Optics Letters, 2021, 46, 1169.	3.3	12
9	Varifocal optical lens using ultrasonic vibration and thixotropic gel. Journal of the Acoustical Society of America, 2021, 149, 3954-3960.	1.1	8
10	Decrease in Longitudinal Wave Velocity in Glycated Collagen. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2727-2732.	3.0	1
11	Simulation study on the effects of cancellous bone structure in the skull on ultrasonic wave propagation. Scientific Reports, 2021, 11, 17592.	3.3	3
12	Ultrasound liquid crystal lens with a variable focus in the radial direction for image stabilization. Applied Optics, 2021, 60, 10365.	1.8	9
13	Evaluation of the Optical Characteristics of the Liquid Crystal Lens Using a Shack-Hartmann Wavefront Sensor. , 2021, , .		0
14	Control of the Surface Profile of a Thixotropic Fluid With Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 117-123.	3.0	1
15	Growth of cortical bone thickness and trabecular bone density in Japanese children. Bone, 2020, 141, 115669.	2.9	7
16	Prolonged Hyperglycemia Reduces Elasticity of Type II Diabetic Rat Bone. Calcified Tissue International, 2020, 107, 381-388.	3.1	4
17	Molecular Orientation in a Variable-Focus Liquid Crystal Lens Induced by Ultrasound Vibration. Scientific Reports, 2020, 10, 6168.	3.3	17
18	FDTD simulation study of ultrasonic wave propagation in human radius model generated from 3D HR-pQCT images. Physics in Medicine, 2020, 10, 100029.	1.3	4

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19	Effects of soft-tissue layer on shear wave velocity measurements in cortical bone tubes. Japanese Journal of Applied Physics, 2020, 59, SKKB05.	1.5	12
20	Piezoelectric and Inversely Piezoelectric Responses of Bone Tissue Plates in the Megahertz Range. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1525-1532.	3.0	3
21	Multimodal Evaluation of the Spatiotemporal Variations of Periprosthetic Bone Properties. Journal of Biomechanical Engineering, 2020, 142, .	1.3	8
22	Evaluation of measurement accuracy of piezoelectric particle sizer using resonance flexural vibration modes of circular disc. Acoustical Science and Technology, 2020, 41, 891-899.	0.5	0
23	Transportation and discrimination of cells using ultrasound flexural vibration of a glass substrate. Japanese Journal of Applied Physics, 2019, 58, SGGD10.	1.5	2
24	Bone Ultrasound. Japanese Journal of Applied Physics, 2019, 58, SG0802.	1.5	26
25	Characterization of shear waves in cortical bone using the axial transmission technique. Japanese Journal of Applied Physics, 2019, 58, SGGE20.	1.5	10
26	Vibration Characteristics and Persistence of Poloxamer- or Phospholipid-Coated Single Microbubbles under Ultrasound Irradiation. Langmuir, 2019, 35, 11322-11329.	3.5	5
27	A simple model for the simulation of ultrasonically induced electric potentials. , 2019, , .		0
28	Ultrasound liquid crystal lens. Applied Physics Letters, 2018, 112, .	3.3	29
29	Ultrasonically-induced electrical potentials in demineralized bovine cortical bone. AIP Advances, 2018, 8, .	1.3	7
30	Attempt at standardization of bone quantitative ultrasound in Japan. Journal of Medical Ultrasonics (2001), 2018, 45, 3-13.	1.3	14
31	Experimental study on the pressure wave propagation in the artificial arterial tree in brain. Japanese Journal of Applied Physics, 2018, 57, 07LC06.	1.5	1
32	Acoustic field around a planar object levitated in an ultrasound waveguide. Proceedings of Meetings on Acoustics, 2018, , .	0.3	0
33	Highly sensitive detection of photo-thermal transient stress by a sub-nanosecond pump probe with surface plasmon resonance. AIP Advances, 2018, 8, .	1.3	7
34	Noncontact Transportation of Planar Object in an Ultrasound Waveguide. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2160-2166.	3.0	5
35	Wave velocities in articular cartilage measured by micro-Brillouin scattering technique. Journal of the Acoustical Society of America, 2018, 144, EL492-EL496.	1.1	2
36	Control of hydroxyapatite film orientation by RF magnetron sputtering. , 2018, 2018, 4225-4228.		0

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37	Phonons induced by laser pulses for Brillouin scattering measurements. Japanese Journal of Applied Physics, 2018, 57, 07LB19.	1.5	3
38	Rapid Wave Velocity Measurement by Brillouin Scattering Using Coherent Phonons Induced by ScAlN Piezoelectric Thin-Film Transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1882-1887.	3.0	1
39	Simulation of Ultrasound Inside Human Radius-Mimicking Model. IFMBE Proceedings, 2018, , 205-208.	0.3	0
40	On-chip ultrasonic manipulation of microparticles by using the flexural vibration of a glass substrate. Ultrasonics, 2017, 79, 81-86.	3.9	9
41	Fast decomposition of two ultrasound longitudinal waves in cancellous bone using a phase rotation parameter for bone quality assessment: Simulation study. Journal of the Acoustical Society of America, 2017, 142, 2322-2331.	1.1	7
42	Fabrication of oriented hydroxyapatite film by RF magnetron sputtering. AIP Advances, 2017, 7, .	1.3	8
43	Periodic pattern of liquid crystal molecular orientation induced by ultrasound vibrations. Applied Physics Letters, 2017, 111, .	3.3	7
44	Effect of anisotropy on stress-induced electrical potentials in bovine bone using ultrasound irradiation. Applied Physics Letters, 2017, 110, .	3.3	10
45	Piezoelectric particle sizer for measuring bed load using a combination of resonance vibration modes. Sensors and Actuators A: Physical, 2017, 267, 150-155.	4.1	3
46	Evaluation of the acoustoelectric effect in the thickness direction of c-plane ZnO single crystals by Brillouin scattering. Journal of Applied Physics, 2017, 121, .	2.5	1
47	Linkage and haplotype analyses of families with benign adult familial myoclonic epilepsy. Journal of the Neurological Sciences, 2017, 381, 346.	0.6	0
48	Film growth of c-axis tilted ScAlN on the sapphire substrate for SAW devices. , 2017, , .		3
49	Notice of Removal: Variable-focus liquid crystal lens using ultrasound vibration. , 2017, , .		0
50	Effect of medullary cavity on the two wave phenomenon in the distal part of long bone. , 2017, , .		0
51	Notice of Removal: In vivo radius bone evaluation of teenagers by modified two wave ultrasound apparatus. , 2017, , .		0
52	Effect of medullary cavity on the two wave phenomenon in the distal part of long bone. , 2017, , .		0
53	Notice of Removal: Evaluation of wave velocity in c-axis oriented hydroxyapatite film by Brillouin scattering technique. , 2017, , .		0
54	Film growth of c-axis tilted ScAlN on the sapphire substrate for SAW devices. , 2017, , .		1

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55	Notice of Removal: Measurement of longitudinal wave velocity in articular cartilage by micro Brillouin scattering. , 2017, , .		0
56	Notice of Removal: Film growth of c-axis parallel oriented ZnO on entire surface of silica glass pipe for SH-SAW pipe sensor. , 2017, , .		0
57	Notice of Removal: Noncontact manipulation and evaluation of HeLa cells using ultrasound vibration. , 2017, , .		0
58	Simulation study of axial ultrasound transmission in heterogeneous cortical bone model. Japanese Journal of Applied Physics, 2017, 56, 07JF29.	1.5	13
59	Control of liquid crystal molecular orientation using ultrasound vibration. Applied Physics Letters, 2016, 108, .	3.3	20
60	Simulation study of axial ultrasonic wave propagation in heterogeneous bovine cortical bone. Journal of the Acoustical Society of America, 2016, 140, 3710-3717.	1.1	7
61	Effects of energetic negative ions generated from sputtering targets on ScAlN film growth. , 2016, , .		6
62	Acoustic-Wave Velocities and Refractive Indices in an m-Plane GaN Single-Crystal Plate and c-Axis-Oriented ScAlN Films Measured by Brillouin Scattering Techniques. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 717-725.	3.0	8
63	Effect of medullary cavity in cancellous bone on two-wave phenomenon. Japanese Journal of Applied Physics, 2016, 55, 07KF16.	1.5	8
64	Rapid and simultaneous measurement of longitudinal and shear wave velocities by Brillouin scattering from artificially induced phonons. , 2016, , .		0
65	Fluid friction and wall viscosity of the 1D blood flow model. Journal of Biomechanics, 2016, 49, 565-571.	2.1	12
66	Movable optical lens array using ultrasonic vibration. Sensors and Actuators A: Physical, 2016, 237, 35-40.	4.1	13
67	Effect of circumferential wave on two wave phenomenon in human distal radius model. , 2015, , .		0
68	Ultrasonic wave properties of human bone marrow in the femur and tibia. Journal of the Acoustical Society of America, 2015, 138, EL83-EL87.	1.1	14
69	Conventional, Bayesian, and Modified Prony's methods for characterizing fast and slow waves in equine cancellous bone. Journal of the Acoustical Society of America, 2015, 138, 594-604.	1.1	8
70	On-chip ultrasonic manipulation of micro-particles using flexural vibration of a glass substrate. , 2015, , .		0
71	Ultrasonic wave properties of human bone marrow in elderly people. , 2015, , .		0
72	Tunable optical lens array using viscoelastic material and acoustic radiation force. AIP Conference Proceedings, 2015, , .	0.4	0

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73	Experimental and Finite-Difference Time-Domain Simulation Study of the Precise Measurement of the Gonad of a Small Fish Using a 25-MHz Acoustic Focus Probe. Marine Technology Society Journal, 2015, 49, 31-37.	0.4	1
74	Two-wave propagation in in vitro swine distal ulna. Japanese Journal of Applied Physics, 2015, 54, 07HF02.	1.5	6
75	Two-dimensional noncontact transportation of small objects in air using flexural vibration of a plate. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 2161-2168.	3.0	17
76	Shear mode properties of c-axis parallel oriented Sc<inf>x</inf>Al<inf>1−x</inf>N films grown by RF bias sputtering. , 2015, , .		1
77	Fast wave velocity measurement by Brillouin scattering using coherent induced phonon from ScAlN piezoelectric thin film. , 2015, , .		0
78	Ultrasound radiation from a three-layer thermoacoustic transformation device. Ultrasonics, 2015, 57, 84-89.	3.9	5
79	Fabrication of an optical lens array using ultraviolet light and ultrasonication. Ultrasonics, 2015, 58, 22-26.	3.9	4
80	Signal of Interest Selection Standard for Ultrasonic Backscatter in Cancellous Bone Evaluation. Ultrasound in Medicine and Biology, 2015, 41, 2714-2721.	1.5	31
81	Fast characterization of two ultrasound longitudinal waves in cancellous bone using an adaptive beamforming technique. Journal of the Acoustical Society of America, 2015, 137, 1683-1692.	1.1	12
82	Estimation of in vivo cortical bone thickness using ultrasonic waves. Journal of Medical Ultrasonics (2001), 2015, 42, 315-322.	1.3	18
83	Effects of microstructure and water on the electrical potentials in bone induced by ultrasound irradiation. Applied Physics Letters, 2015, 106, .	3.3	16
84	Application of Spatial Domain Interferometry with the Capon Method to Transcranial Doppler Ultrasonography: a Simulation Study. Advanced Biomedical Engineering, 2015, 4, 73-79.	0.6	0
85	Local ultrasonic wave velocities in trabeculae measured by micro-Brillouin scattering. Journal of the Acoustical Society of America, 2014, 135, EL109-EL114.	1.1	13
86	Effect of Sc concentration on shear wave velocities in ScAlN films measured by micro-Brillouin scattering technique. , 2014, , .		9
87	Experimental study on the pressure propagation in viscoelastic tube mimicking blood vessels. , 2014, , .		0
88	Two-dimensional noncontact transportation of small objects in air using flexural vibration of a plate. , 2014, , .		0
89	Multiple shear wave roundtrips liquid sensor by c-axis parallel oriented ZnO film/silica glass pipe structure. , 2014, , .		2
90	Design of a junction for a noncontact ultrasonic transportation system. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1024-1032.	3.0	16

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91	The relationship between ultrasonic backscatter and trabecular anisotropic microstructure in cancellous bone. Journal of Applied Physics, 2014, 115, .	2.5	36
92	Fast and slow wave detection in bovine cancellous bone in vitro using bandlimited deconvolution and Prony's method. Journal of the Acoustical Society of America, 2014, 136, 2015-2024.	1.1	13
93	Temporal evolution of fast and slow waves during propagation through bovine cancellous bone in vitro. , 2014, , .		0
94	Fablication method of an optical lens arrray using ultraviolet light and ultrasound vibration. , 2014, , .		0
95	Influence of the circumferential wave on the fast and slow wave propagation in small distal radius bone. Japanese Journal of Applied Physics, 2014, 53, 07KF07.	1.5	9
96	Combination of parallel poly(vinylidene fluoride) receiver with laser induced pulse ultrasound for the detection of defects. Japanese Journal of Applied Physics, 2014, 53, 07KC06.	1.5	3
97	Evolution of bone biomechanical properties at the micrometer scale around titanium implant as a function of healing time. Physics in Medicine and Biology, 2014, 59, 1389-1406.	3.0	34
98	Gigahertz acoustic wave velocity measurement in GaN single crystals considering acousto-electric effect. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1307-1313.	3.0	3
99	Application of a micro-Brillouin scattering technique to characterize bone in the GHz range. Ultrasonics, 2014, 54, 1155-1161.	3.9	16
100	Two-wave behavior under various conditions of transition area from cancellous bone to cortical bone. Ultrasonics, 2014, 54, 1245-1250.	3.9	15
101	Electrical potentials in bone induced by ultrasound irradiation in the megahertz range. Applied Physics Letters, 2013, 103, .	3.3	23
102	High-performance brillouin spectroscopy of phonons induced by a piezoelectric thin film with a coaxial microwave resonator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 873-876.	3.0	4
103	Effect of metal mode and oxide mode on unusual c-axis parallel oriented ZnO film growth on Al/glass substrate in a reactive magnetron sputtering of Zn target. Journal of Crystal Growth, 2013, 363, 22-24.	1.5	7
104	A method for predicting thickness of the unoriented layer in ZnO film using piezoelectricity distribution in depth direction. Journal Physics D: Applied Physics, 2013, 46, 315305.	2.8	4
105	Trial of Human Bone Cross-Sectional Imaging In vivo, Using Ultrasonic Echo Waves. Japanese Journal of Applied Physics, 2013, 52, 07HF05.	1.5	15
106	Experimental study on the pressure and pulse wave propagation in viscoelastic vessel tubes-effects of liquid viscosity and tube stiffness. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2381-2388.	3.0	6
107	An experimental study on the ultrasonic wave propagation in cancellous bone: Waveform changes during propagation. Journal of the Acoustical Society of America, 2013, 134, 4775-4781.	1.1	15
108	Effects of heart rate on the pulse waveform measured at the left common carotid artery. , 2013, , .		1

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109	Comparing different numerical methods for solving arterial 1D flows in networks. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 61-62.	1.6	6
110	Comparative investigation of elastic properties in a trabecula using micro-Brillouin scattering and scanning acoustic microscopy. Journal of the Acoustical Society of America, 2012, 132, EL54-EL60.	1.1	16
111	Nondestructive Evaluation of Plane Crack Tip in a Thin Plate Using Laser-Induced Pulse Wave and Symmetric Lamb Wave. Japanese Journal of Applied Physics, 2012, 51, 07GB16.	1.5	11
112	Measurement of Wave Velocity in Cortical Bone by Micro-Brillouin Scattering Technique: Effect of Bone Tissue Properties. Japanese Journal of Applied Physics, 2012, 51, 07GF20.	1.5	11
113	Ultrasonic optical lens array with variable focal length and pitch. Optics Letters, 2012, 37, 5256.	3.3	12
114	Unusual growth of polycrystalline oxide film induced by negative ion bombardment in the capacitively coupled plasma deposition. Applied Physics Letters, 2012, 101, 232902.	3.3	34
115	Fast hypersonic velocity measurement by Brillouin scattering from induced phonons. , 2012, , .		0
116	Experimental study on the pulse wave propagation in viscoelastic vessel tubes. , 2012, , .		0
117	Wideband Multimode Transducer Consisting of c-Axis Tilted ZnO/c-Axis Normal ZnO Multilayer. Japanese Journal of Applied Physics, 2012, 51, 07GC08.	1.5	10
118	Noninvasive assessment of arterial stiffness by pulse wave analysis. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2411-2419.	3.0	27
119	Two-wave propagation imaging to evaluate the structure of cancellous bone. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1160-1166.	3.0	14
120	Relationships between the anisotropy of longitudinal wave velocity and hydroxyapatite crystallite orientation in bovine cortical bone. Ultrasonics, 2012, 52, 377-386.	3.9	10
121	Relative contributions of porosity and mineralized matrix properties to the bulk axial ultrasonic wave velocity in human cortical bone. Ultrasonics, 2012, 52, 467-471.	3.9	23
122	Wideband Multimode Transducer Consisting ofc-Axis Tilted ZnO/c-Axis Normal ZnO Multilayer. Japanese Journal of Applied Physics, 2012, 51, 07GC08.	1.5	6
123	Measurement of Wave Velocity in Cortical Bone by Micro-Brillouin Scattering Technique: Effect of Bone Tissue Properties. Japanese Journal of Applied Physics, 2012, 51, 07GF20.	1.5	10
124	Quantitative analysis of the effect of energetic particle bombardment during deposition on (1120) texture formation in ZnO films. , 2011, , .		2
125	1D model for propagation of pulse wave in an arterial network: Comparative study of theory and experiment. , 2011, , .		3
126	Two wave propagation image for investigating the anisotropic structure of cancellous bone. , 2011, , .		0

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127	Characterization of the fast wave in cancellous bone using the Bayesian probability theory approach. , 2011, , .		1
128	Propagation of two longitudinal waves in a cancellous bone with the closed pore boundary. Journal of the Acoustical Society of America, 2011, 130, EL122-EL127.	1.1	28
129	Observation of induced longitudinal and shear acoustic phonons by Brillouin scattering. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1255-1260.	3.0	5
130	Determining attenuation properties of interfering fast and slow ultrasonic waves in cancellous bone. Journal of the Acoustical Society of America, 2011, 130, 2233-2240.	1.1	36
131	Properties of Ultrasonic Waves in Bovine Bone Marrow. Ultrasound in Medicine and Biology, 2011, 37, 1923-1929.	1.5	15
132	c-Axis Zig-Zag ZnO film ultrasonic transducers for designing longitudinal and shear wave resonant frequencies and modes. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1062-1068.	3.0	55
133	Three-Dimensional Anisotropy of Ultrasonic Wave Velocity in Bovine Cortical Bone: Effects of Hydroxyapatite Crystallites Orientation and Microstructure. Japanese Journal of Applied Physics, 2011, 50, 07HF18.	1.5	11
134	Estimation of Arterial Stiffness by Timeâ€“Frequency Analysis of Pulse Wave. Japanese Journal of Applied Physics, 2011, 50, 07HF10.	1.5	1
135	Experimental Study on the Pulse Wave Propagation in a Human Artery Model. Japanese Journal of Applied Physics, 2011, 50, 07HF12.	1.5	3
136	Effect of Boundary Condition on the Two-Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2011, 50, 07HF19.	1.5	12
137	Brillouin scattering from induced phonons excited by the ZnO piezoelectric thin film with a coaxial resonator. , 2011, , .		2
138	Micro-Brillouin Scattering Measurements in Mature and Newly Formed Bone Tissue Surrounding an Implant. Journal of Biomechanical Engineering, 2011, 133, 021006.	1.3	64
139	C-axis parallel oriented ZnO film SH-SAW sensor for electrical conductivity measurement in liquid. , 2011, , .		0
140	Determining the attenuation of overlapping fast and slow waves in cancellous bone using Bayesian techniques. , 2011, , .		0
141	One-Dimensional Model for Propagation of a Pressure Wave in a Model of the Human Arterial Network: Comparison of Theoretical and Experimental Results. Journal of Biomechanical Engineering, 2011, 133, 121005.	1.3	51
142	Estimation of Arterial Stiffness by Timeâ€“Frequency Analysis of Pulse Wave. Japanese Journal of Applied Physics, 2011, 50, 07HF10.	1.5	11
143	Experimental Study on the Pulse Wave Propagation in a Human Artery Model. Japanese Journal of Applied Physics, 2011, 50, 07HF12.	1.5	4
144	Three-Dimensional Anisotropy of Ultrasonic Wave Velocity in Bovine Cortical Bone: Effects of Hydroxyapatite Crystallites Orientation and Microstructure. Japanese Journal of Applied Physics, 2011, 50, 07HF18.	1.5	3

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145	Effect of Boundary Condition on the Two-Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2011, 50, 07HF19.	1.5	8
146	The Fast and Slow Wave Propagation in Cancellous Bone: Experiments and Simulations. , 2011, , 291-318.		5
147	Effect of Viscoelasticity of Vessel Walls on Pulse Wave. Japanese Journal of Applied Physics, 2010, 49, 07HF12.	1.5	6
148	A method for measuring in-plane unidirectional electrical properties in a wide band-gap semiconductor using a Brillouin scattering method. Journal of Applied Physics, 2010, 108, 024910.	2.5	5
149	Estimation of reflected wave in carotid pulse wave for simple and noninvasive assessment of arterial stiffness. , 2010, , .		1
150	A simple technique for obtaining (1120) or (1010) textured ZnO films by RF bias sputtering. , 2010, , .		4
151	Experimental investigation of local elastic properties in a trabecula of bovine femur. , 2010, , .		0
152	Large-Area Growth of In-Plane Oriented (11ar20) ZnO Films by Linear Cathode Magnetron Sputtering. Japanese Journal of Applied Physics, 2010, 49, 07HD16.	1.5	10
153	Measurement of Wave Velocity Distribution in a Trabecula by Micro-Brillouin Scattering Technique. Japanese Journal of Applied Physics, 2010, 49, 07HB05.	1.5	16
154	Trabecular and cortical bone separately assessed at radius with a new ultrasound device, in a young adult population with various physical activities. Bone, 2010, 46, 1620-1625.	2.9	38
155	Influence of cancellous bone microstructure on two ultrasonic wave propagations in bovine femur: An in vitro study. Journal of the Acoustical Society of America, 2010, 128, 3181-3189.	1.1	37
156	Wavelet Transform Analysis of Ultrasonic Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2010, 49, 07HF28.	1.5	11
157	Distribution of longitudinal wave velocity and hydroxyapatite crystallite orientation in bovine cortical bone. Acoustical Science and Technology, 2009, 30, 306-309.	0.5	5
158	Measurement of electric properties in a ZnO single crystal via electromechanical coupling using Brillouin scattering method. , 2009, , .		0
159	Measurement of three-dimensional distribution of crack tips by low power pulsed laser. , 2009, , .		0
160	Simple and noninvasive analysis of the pulse wave for blood vessel evaluation. , 2009, , .		5
161	Measurement of longitudinal wave velocity in trabeculae by micro-Brillouin scattering. , 2009, , .		0
162	Simple Analysis of the Pulse Wave for Blood Vessel Evaluation. Japanese Journal of Applied Physics, 2009, 48, 07GJ09.	1.5	10

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163	Anisotropy of Longitudinal Wave Velocity and Hydroxyapatite Orientation in Bovine Cortical Bone. Japanese Journal of Applied Physics, 2009, 48, 07GK06.	1.5	5
164	Multilayered shear wave resonator consisting of c-axis tilted ZnO films. , 2009, , .		1
165	Propagation of two longitudinal waves in human cancellous bone: An in vitro study. Journal of the Acoustical Society of America, 2009, 125, 3460-3466.	1.1	79
166	A Challenge for the Quantitative Ultrasonic Evaluation of Bone. Ieice Ess Fundamentals Review, 2009, 3, 47-52.	0.1	1
167	Propagation of fast and slow waves in cancellous bone: Comparative study of simulation and experiment. Acoustical Science and Technology, 2009, 30, 257-264.	0.5	28
168	Correlation between Hydroxyapatite Crystallite Orientation and Ultrasonic Wave Velocities in Bovine Cortical Bone. Calcified Tissue International, 2008, 82, 162-169.	3.1	42
169	Dependence of ultrasonic attenuation on bone mass and microstructure in bovine cortical bone. Journal of Biomechanics, 2008, 41, 347-355.	2.1	81
170	Numerical and experimental study on the wave attenuation in bone â€“ FDTD simulation of ultrasound propagation in cancellous bone. Ultrasonics, 2008, 48, 607-612.	3.9	75
171	Distribution of hydroxyapatite crystallite orientation and ultrasonic wave velocity in ring-shaped cortical bone of bovine femur. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1298-1303.	3.0	12
172	Effects of structural anisotropy of cancellous bone on speed of ultrasonic fast waves in the bovine femur. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1480-1487.	3.0	69
173	Propagation of ultrasonic longitudinal wave in the cancellous bone covered by the subchondral bone of bovine femur. , 2008, , .		0
174	Measurement of Wave Velocity in Bovine Bone Tissue by Micro-Brillouin Scattering. Japanese Journal of Applied Physics, 2008, 47, 4205-4208.	1.5	21
175	Ultrasonic Wave Properties in Bone Axis Direction of Bovine Cortical Bone. Japanese Journal of Applied Physics, 2008, 47, 4096.	1.5	17
176	Propagation characteristics of shear horizontal surface acoustic waves in (11 2 0) ZnO film/silica glass substrate structures. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2709-2713.	3.0	23
177	Electromechanical coupling coefficient of semiconducting hexagonal crystal measured by Brillouin scattering. , 2008, , .		7
178	Ultrasonic velocity dispersion in bovine cortical bone: An experimental study. Journal of the Acoustical Society of America, 2008, 124, 1811-1821.	1.1	18
179	P3H-3 Thin Film Stack Transducer for Simultaneous Generation of Longitudinal and Shear Waves at Same Frequency. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	4
180	Effects of Sputtering Gas Conditions on Formation of (112Ì„0) Textured ZnO Films. Japanese Journal of Applied Physics, 2007, 46, 4660.	1.5	20

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181	Observation of Induced Shear Acoustic Phonons by Brillouin Scattering. Japanese Journal of Applied Physics, 2007, 46, 4626.	1.5	8
182	Shear mode electromechanical coupling coefficient k15 and crystallites alignment of (112Â¯) textured ZnO films. Journal of Applied Physics, 2007, 102, .	2.5	63
183	P5A-4 Broadband Ultrasonic Attenuation in Femoral Bovine Cortical Bone is an Indicator of Bone Properties. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
184	Characteristics of Pure-shear Mode BAW Resonators Consisting of (1120) Textured ZnO Films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 1680-1686.	3.0	38
185	P5A-2 An Experimental Study on the Ultrasonic Wave Propagation and Structural Anisotropy in Bovine Cancellous Bone. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
186	4E-4 Propagation Characteristics of SH-SAW in (1120) ZnO Layer/Silica Glass Substrate Structures. , 2007, , .		1
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