Mami Matsukawa

List of Publications by Year in descending order

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235	2,633	218381	288905
papers	citations	26 h-index	40 g-index

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

#	Article	IF	Citations
1	Dependence of ultrasonic attenuation on bone mass and microstructure in bovine cortical bone. Journal of Biomechanics, 2008, 41, 347-355.	0.9	81
2	Propagation of two longitudinal waves in human cancellous bone: An in vitro study. Journal of the Acoustical Society of America, 2009, 125, 3460-3466.	0.5	79
3	Numerical and experimental study on the wave attenuation in bone â€“ FDTD simulation of ultrasound propagation in cancellous bone. Ultrasonics, 2008, 48, 607-612.	2.1	75
4	Frequency Dependence of Ultrasonic Attenuation in Bovine Cortical Bone: An In Vitro Study. Ultrasound in Medicine and Biology, 2007, 33, 1933-1942.	0.7	74
5	Applicability of Finite-Difference Time-Domain Method to Simulation of Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2006, 45, 7186-7190.	0.8	71
6	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.	1.7	69
7	Micro-Brillouin Scattering Measurements in Mature and Newly Formed Bone Tissue Surrounding an Implant. Journal of Biomechanical Engineering, 2011, 133, 021006.	0.6	64
8	Shear mode electromechanical coupling coefficient k15 and crystallites alignment of (112Â¯) textured ZnO films. Journal of Applied Physics, 2007, 102, .	1.1	63
9	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.	1.7	55
10	Distribution of longitudinal wave properties in bovine cortical bone in vitro. Ultrasonics, 2006, 44, e233-e237.	2.1	54
11	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.	0.6	51
12	Ultrasonic characterization of a polymerizing epoxy resin with imbalanced stoichiometry. Journal of the Acoustical Society of America, 1996, 99, 2110-2115.	0.5	47
13	Correlation between Hydroxyapatite Crystallite Orientation and Ultrasonic Wave Velocities in Bovine Cortical Bone. Calcified Tissue International, 2008, 82, 162-169.	1.5	42
14	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.	1.7	38
15	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.	1.4	38
16	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.	0.5	37
17	Determining attenuation properties of interfering fast and slow ultrasonic waves in cancellous bone. Journal of the Acoustical Society of America, 2011, 130, 2233-2240.	0.5	36
18	The relationship between ultrasonic backscatter and trabecular anisotropic microstructure in cancellous bone. Journal of Applied Physics, 2014, 115, .	1.1	36

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19	Unusual growth of polycrystalline oxide film induced by negative ion bombardment in the capacitively coupled plasma deposition. Applied Physics Letters, 2012, 101, 232902.	1.5	34
20	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.	1.6	34
21	Electromechanical coupling coefficient k15 of polycrystalline ZnO films with the c-axes lie in the substrate plane. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 701-704.	1.7	33
22	Distribution of Longitudinal Wave Velocities in Bovine Cortical Bonein vitro. Japanese Journal of Applied Physics, 2005, 44, 4622-4624.	0.8	31
23	Signal of Interest Selection Standard for Ultrasonic Backscatter in Cancellous Bone Evaluation. Ultrasound in Medicine and Biology, 2015, 41, 2714-2721.	0.7	31
24	Formation of uniaxially (112Â¯0) textured ZnO films on glass substrates. Journal of Crystal Growth, 2005, 276, 424-430.	0.7	30
25	Ultrasound liquid crystal lens. Applied Physics Letters, 2018, 112, .	1.5	29
26	Significance of Auditory Evoked Responses (EABR and P300) in Cochlear Implant Subjects. Acta Oto-Laryngologica, 2001, 121, 257-261.	0.3	28
27	Characterization of (11ar20) Textured ZnO Films Fabricated by RF Magnetron Sputtering. Japanese Journal of Applied Physics, 2004, 43, 3004-3007.	0.8	28
28	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.	0.5	28
29	Propagation of fast and slow waves in cancellous bone: Comparative study of simulation and experiment. Acoustical Science and Technology, 2009, 30, 257-264.	0.3	28
30	Noninvasive assessment of arterial stiffness by pulse wave analysis. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2411-2419.	1.7	27
31	Bone Ultrasound. Japanese Journal of Applied Physics, 2019, 58, SG0802.	0.8	26
32	Characteristics of (101~0) and (112~0) textured ZnO piezofilms for a shear mode resonator in the VHF-UHF frequency ranges. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 2140-2145.	1.7	25
33	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.	1.7	23
34	Relative contributions of porosity and mineralized matrix properties to the bulk axial ultrasonic wave velocity in human cortical bone. Ultrasonics, 2012, 52, 467-471.	2.1	23
35	Electrical potentials in bone induced by ultrasound irradiation in the megahertz range. Applied Physics Letters, 2013, 103, .	1.5	23
36	Brillouin Scattering Study on the Elastic Properties of Epoxy Adhesive Layer. Japanese Journal of Applied Physics, 1999, 38, 3175-3178.	0.8	22

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37	Measurement of Wave Velocity in Bovine Bone Tissue by Micro-Brillouin Scattering. Japanese Journal of Applied Physics, 2008, 47, 4205-4208.	0.8	21
38	Effects of Sputtering Gas Conditions on Formation of (112Ì„0) Textured ZnO Films. Japanese Journal of Applied Physics, 2007, 46, 4660.	0.8	20
39	Control of liquid crystal molecular orientation using ultrasound vibration. Applied Physics Letters, 2016, 108, .	1.5	20
40	Ultrasonic velocity dispersion in bovine cortical bone: An experimental study. Journal of the Acoustical Society of America, 2008, 124, 1811-1821.	0.5	18
41	Estimation of in vivo cortical bone thickness using ultrasonic waves. Journal of Medical Ultrasonics (2001), 2015, 42, 315-322.	0.6	18
42	Ultrasonic Wave Properties in Bone Axis Direction of Bovine Cortical Bone. Japanese Journal of Applied Physics, 2008, 47, 4096.	0.8	17
43	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.	1.7	17
44	Molecular Orientation in a Variable-Focus Liquid Crystal Lens Induced by Ultrasound Vibration. Scientific Reports, 2020, 10, 6168.	1.6	17
45	Measurement of Wave Velocity Distribution in a Trabecula by Micro-Brillouin Scattering Technique. Japanese Journal of Applied Physics, 2010, 49, 07HB05.	0.8	16
46	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.	0.5	16
47	Design of a junction for a noncontact ultrasonic transportation system. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1024-1032.	1.7	16
48	Application of a micro-Brillouin scattering technique to characterize bone in the GHz range. Ultrasonics, 2014, 54, 1155-1161.	2.1	16
49	Effects of microstructure and water on the electrical potentials in bone induced by ultrasound irradiation. Applied Physics Letters, 2015, 106, .	1.5	16
50	Brillouin Scattering Study on the Opto-Acoustic Properties of Thin Piezoelectric Polymer Films. Japanese Journal of Applied Physics, 2004, 43, 2916-2919.	0.8	15
51	Properties of Ultrasonic Waves in Bovine Bone Marrow. Ultrasound in Medicine and Biology, 2011, 37, 1923-1929.	0.7	15
52	Trial of Human Bone Cross-Sectional Imaging In vivo, Using Ultrasonic Echo Waves. Japanese Journal of Applied Physics, 2013, 52, 07HF05.	0.8	15
53	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.	0.5	15
54	Two-wave behavior under various conditions of transition area from cancellous bone to cortical bone. Ultrasonics, 2014, 54, 1245-1250.	2.1	15

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55	Relaxations of bisphenol A-based epoxides cured with aliphatic diamines. Journal of Applied Polymer Science, 1993, 50, 67-73.	1.3	14
56	Two-wave propagation imaging to evaluate the structure of cancellous bone. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1160-1166.	1.7	14
57	Ultrasonic wave properties of human bone marrow in the femur and tibia. Journal of the Acoustical Society of America, 2015, 138, EL83-EL87.	0.5	14
58	Attempt at standardization of bone quantitative ultrasound in Japan. Journal of Medical Ultrasonics (2001), 2018, 45, 3-13.	0.6	14
59	Brillouin Scattering in Densified GeO2Glasses. Japanese Journal of Applied Physics, 1999, 38, 3062-3065.	0.8	13
60	P0-12 Highly Oriented C-Axis 23° Tilted ZnO Films with High Quasi-Shear Mode Electromechanical Coupling Coefficients. , 2007, , .		13
61	Local ultrasonic wave velocities in trabeculae measured by micro-Brillouin scattering. Journal of the Acoustical Society of America, 2014, 135, EL109-EL114.	0.5	13
62	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.	0.5	13
63	Movable optical lens array using ultrasonic vibration. Sensors and Actuators A: Physical, 2016, 237, 35-40.	2.0	13
64	Simulation study of axial ultrasound transmission in heterogeneous cortical bone model. Japanese Journal of Applied Physics, 2017, 56, 07JF29.	0.8	13
65	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.	1.7	12
66	Effect of Boundary Condition on the Two-Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2011, 50, 07HF19.	0.8	12
67	Ultrasonic optical lens array with variable focal length and pitch. Optics Letters, 2012, 37, 5256.	1.7	12
68	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.	0.5	12
69	Fluid friction and wall viscosity of the 1D blood flow model. Journal of Biomechanics, 2016, 49, 565-571.	0.9	12
70	Effects of soft-tissue layer on shear wave velocity measurements in cortical bone tubes. Japanese Journal of Applied Physics, 2020, 59, SKKB05.	0.8	12
71	Ultrasound liquid crystal lens with enlarged aperture using traveling waves. Optics Letters, 2021, 46, 1169.	1.7	12
72	Ultrasonic wave properties in the particle compounded agarose gels. Ultrasonics, 2002, 40, 323-327.	2.1	11

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73	â€œTwo-Passâ€•Brillouin Scattering Geometry for the Investigation of Opto-Acoustic Properties of Thin Films. Japanese Journal of Applied Physics, 2003, 42, 5865-5866.	0.8	11
74	Application of Brillouin scattering to the local anisotropy and birefringence measurements of thin layers. Ultrasonics, 2006, 44, e1555-e1559.	2.1	11
75	Wavelet Transform Analysis of Ultrasonic Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2010, 49, 07HF28.	0.8	11
76	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.	0.8	11
77	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.	0.8	11
78	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.	0.8	11
79	Estimation of Arterial Stiffness by Timeâ€“Frequency Analysis of Pulse Wave. Japanese Journal of Applied Physics, 2011, 50, 07HF10.	0.8	11
80	Simple Analysis of the Pulse Wave for Blood Vessel Evaluation. Japanese Journal of Applied Physics, 2009, 48, 07GJ09.	0.8	10
81	Large-Area Growth of In-Plane Oriented (11ar20) ZnO Films by Linear Cathode Magnetron Sputtering. Japanese Journal of Applied Physics, 2010, 49, 07HD16.	0.8	10
82	Wideband Multimode Transducer Consisting of c-Axis Tilted ZnO/c-Axis Normal ZnO Multilayer. Japanese Journal of Applied Physics, 2012, 51, 07GC08.	0.8	10
83	Relationships between the anisotropy of longitudinal wave velocity and hydroxyapatite crystallite orientation in bovine cortical bone. Ultrasonics, 2012, 52, 377-386.	2.1	10
84	Effect of anisotropy on stress-induced electrical potentials in bovine bone using ultrasound irradiation. Applied Physics Letters, 2017, 110, .	1.5	10
85	Characterization of shear waves in cortical bone using the axial transmission technique. Japanese Journal of Applied Physics, 2019, 58, SGGE20.	0.8	10
86	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.	0.8	10
87	Effect of Sc concentration on shear wave velocities in ScAlN films measured by micro-Brillouin scattering technique. , 2014, , .		9
88	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.	0.8	9
89	On-chip ultrasonic manipulation of microparticles by using the flexural vibration of a glass substrate. Ultrasonics, 2017, 79, 81-86.	2.1	9
90	Ultrasound liquid crystal lens with a variable focus in the radial direction for image stabilization. Applied Optics, 2021, 60, 10365.	0.9	9

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91	Observation of Induced Shear Acoustic Phonons by Brillouin Scattering. Japanese Journal of Applied Physics, 2007, 46, 4626.	0.8	8
92	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.	0.5	8
93	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.	1.7	8
94	Effect of medullary cavity in cancellous bone on two-wave phenomenon. Japanese Journal of Applied Physics, 2016, 55, 07KF16.	0.8	8
95	Fabrication of oriented hydroxyapatite film by RF magnetron sputtering. AIP Advances, 2017, 7, .	0.6	8
96	Varifocal optical lens using ultrasonic vibration and thixotropic gel. Journal of the Acoustical Society of America, 2021, 149, 3954-3960.	0.5	8
97	Multimodal Evaluation of the Spatiotemporal Variations of Periprosthetic Bone Properties. Journal of Biomechanical Engineering, 2020, 142, .	0.6	8
98	Effect of Boundary Condition on the Two-Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2011, 50, 07HF19.	0.8	8
99	Brillouin Scattering and Ultrasonic Study on an Epoxy Prepolymer. Japanese Journal of Applied Physics, 1997, 36, 2976-2980.	0.8	7
100	Brillouin scattering study of epoxy adhesive layers during cure. Ultrasonics, 2000, 38, 466-469.	2.1	7
101	Birefringence Measurement of Thin Polymer Films under Tensile Stress by a Brillouin Scattering Method. Japanese Journal of Applied Physics, 2003, 42, 3080-3083.	0.8	7
102	Conversion Characteristics of the Shear Wave Transducer Made of Unidirectionally Aligned ZnO Film in Plane. Japanese Journal of Applied Physics, 2006, 45, 4201-4203.	0.8	7
103	Electromechanical coupling coefficient of semiconducting hexagonal crystal measured by Brillouin scattering. , 2008, , .		7
104	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.	0.7	7
105	Simulation study of axial ultrasonic wave propagation in heterogeneous bovine cortical bone. Journal of the Acoustical Society of America, 2016, 140, 3710-3717.	0.5	7
106	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.	0.5	7
107	Periodic pattern of liquid crystal molecular orientation induced by ultrasound vibrations. Applied Physics Letters, 2017, 111, .	1.5	7
108	Ultrasonically-induced electrical potentials in demineralized bovine cortical bone. AIP Advances, 2018, 8, .	0.6	7

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109	Highly sensitive detection of photo-thermal transient stress by a sub-nanosecond pump probe with surface plasmon resonance. AIP Advances, 2018, 8, .	0.6	7
110	Growth of cortical bone thickness and trabecular bone density in Japanese children. Bone, 2020, 141, 115669.	1.4	7
111	Relationship between liquid crystal layer thickness and variable-focusing characteristics of an ultrasound liquid crystal lens. Japanese Journal of Applied Physics, 2022, 61, SG1013.	0.8	7
112	Study on photoacoustic properties of bovine cortical bone. Japanese Journal of Applied Physics, 2022, 61, SG1019.	0.8	7
113	An ultrasonic evaluation of the sol-gel synthesis of silica glass. Ultrasonics, 1996, 34, 335-338.	2.1	6
114	Effect of Viscoelasticity of Vessel Walls on Pulse Wave. Japanese Journal of Applied Physics, 2010, 49, 07HF12.	0.8	6
115	Comparing different numerical methods for solving arterial 1D flows in networks. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 61-62.	0.9	6
116	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.	1.7	6
117	Two-wave propagation in in vitro swine distal ulna. Japanese Journal of Applied Physics, 2015, 54, 07HF02.	0.8	6
118	Effects of energetic negative ions generated from sputtering targets on ScAlN film growth. , 2016, , .		6
119	Wideband Multimode Transducer Consisting ofc-Axis Tilted ZnO/c-Axis Normal ZnO Multilayer. Japanese Journal of Applied Physics, 2012, 51, 07GC08.	0.8	6
120	Non-destructive evaluation of thin ZnO shear wave transducer by brillouin scattering. , 0, , .		5
121	Distribution of longitudinal wave velocity and hydroxyapatite crystallite orientation in bovine cortical bone. Acoustical Science and Technology, 2009, 30, 306-309.	0.3	5
122	Simple and noninvasive analysis of the pulse wave for blood vessel evaluation. , 2009, , .		5
123	Anisotropy of Longitudinal Wave Velocity and Hydroxyapatite Orientation in Bovine Cortical Bone. Japanese Journal of Applied Physics, 2009, 48, 07GK06.	0.8	5
124	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.	1.1	5
125	Observation of induced longitudinal and shear acoustic phonons by Brillouin scattering. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1255-1260.	1.7	5
126	Ultrasound radiation from a three-layer thermoacoustic transformation device. Ultrasonics, 2015, 57, 84-89.	2.1	5

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127	Noncontact Transportation of Planar Object in an Ultrasound Waveguide. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2160-2166.	1.7	5
128	Vibration Characteristics and Persistence of Poloxamer- or Phospholipid-Coated Single Microbubbles under Ultrasound Irradiation. Langmuir, 2019, 35, 11322-11329.	1.6	5
129	Effect of sputtering geometry on (1120) textured ZnO piezofilm. Acoustical Science and Technology, 2006, 27, 53-55.	0.3	5
130	The Fast and Slow Wave Propagation in Cancellous Bone: Experiments and Simulations. , 2011, , 291-318.		5
131	The glass transition beyond the time trap: Opto-acoustic dispersion. Phase Transitions, 1998, 65, 279-289.	0.6	4
132	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
133	A simple technique for obtaining (1120) or (1010) textured ZnO films by RF bias sputtering. , 2010, , .		4
134	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.	1.7	4
135	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.	1.3	4
136	Fabrication of an optical lens array using ultraviolet light and ultrasonication. Ultrasonics, 2015, 58, 22-26.	2.1	4
137	Prolonged Hyperglycemia Reduces Elasticity of Type II Diabetic Rat Bone. Calcified Tissue International, 2020, 107, 381-388.	1.5	4
138	FDTD simulation study of ultrasonic wave propagation in human radius model generated from 3D HR-pQCT images. Physics in Medicine, 2020, 10, 100029.	0.6	4
139	Anisotropic Longitudinal Wave Propagation in Swine Skull. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 65-71.	1.7	4
140	Experimental Study on the Pulse Wave Propagation in a Human Artery Model. Japanese Journal of Applied Physics, 2011, 50, 07HF12.	0.8	4
141	Effects of tensile stress on the hypersonic wave velocities in polymer films.. Acoustical Science and Technology, 2001, 22, 375-377.	0.3	4
142	Ultrasonic Wave Propagation in Particle Compounded Gels. Japanese Journal of Applied Physics, 1999, 38, 3023-3027.	0.8	3
143	Effects of Tensile Stress on the Hypersonic Properties of Thin Polymer Films. Japanese Journal of Applied Physics, 2001, 40, 3511-3515.	0.8	3
144	Shear wave transducer using (1120) textured ZnO film. , 0, , .		3

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145	1D model for propagation of pulse wave in an arterial network: Comparative study of theory and experiment. , 2011, , .		3
146	Experimental Study on the Pulse Wave Propagation in a Human Artery Model. Japanese Journal of Applied Physics, 2011, 50, 07HF12.	0.8	3
147	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.	0.8	3
148	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.	1.7	3
149	Piezoelectric particle sizer for measuring bed load using a combination of resonance vibration modes. Sensors and Actuators A: Physical, 2017, 267, 150-155.	2.0	3
150	Film growth of c-axis tilted ScAlN on the sapphire substrate for SAW devices. , 2017, , .		3
151	Phonons induced by laser pulses for Brillouin scattering measurements. Japanese Journal of Applied Physics, 2018, 57, 07LB19.	0.8	3
152	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.	1.7	3
153	Simulation study on the effects of cancellous bone structure in the skull on ultrasonic wave propagation. Scientific Reports, 2021, 11, 17592.	1.6	3
154	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.	0.8	3
155	The Effect of Crosslinks on Ultrasonic Properties in Glassy Epoxy Resin. Japanese Journal of Applied Physics, 1991, 30, 28.	0.8	3
156	Ultrasonic Study of Sub Î² Relaxation in Epoxides Cured with Aliphatic Diamines. Japanese Journal of Applied Physics, 1992, 31, 26.	0.8	3
157	Ultrasonic properties in the glassy state of MNA(methylnadic anhydride) cured epoxy resin.. Journal of the Acoustical Society of Japan (E), 1992, 13, 69-75.	0.1	3
158	Optical evaluation of a double-layered ultrasound liquid crystal lens. Journal of Applied Physics, 2022, 131, .	1.1	3
159	Application of a Suspension Theory to Particle-Dispersed Agarose Gels. Japanese Journal of Applied Physics, 2002, 41, 3163-3167.	0.8	2
160	P1J-2 Electromechanical Coupling Coefficient k15 and Crystallites Alignment of (1120) Textured ZnO Films. , 2006, , .		2
161	P1M-4 Study on Formation Mechanism of (1120) Textured ZnO Films. , 2006, , .		2
162	Quantitative analysis of the effect of energetic particle bombardment during deposition on (1120) texture formation in ZnO films. , 2011, , .		2

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163	Brillouin scattering from induced phonons excited by the ZnO piezoelectric thin film with a coaxial resonator. , 2011, , .		2
164	Multiple shear wave roundtrips liquid sensor by c-axis parallel oriented ZnO film/silica glass pipe structure. , 2014, , .		2
165	Wave velocities in articular cartilage measured by micro-Brillouin scattering technique. Journal of the Acoustical Society of America, 2018, 144, EL492-EL496.	0.5	2
166	Transportation and discrimination of cells using ultrasound flexural vibration of a glass substrate. Japanese Journal of Applied Physics, 2019, 58, SGGD10.	0.8	2
167	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.	1.7	2
168	Brillouin Scattering in B2O3â€“Li2Oâ€“LiCl Glass. Japanese Journal of Applied Physics, 1998, 37, 2808-2811.	0.8	1
169	A Simple Nondestructive Evaluation of an Adhesive Layer Using Elastic Wave Velocities. Japanese Journal of Applied Physics, 2000, 39, 2950-2951.	0.8	1
170	Nondestructive Evaluation of SiC Layer by Brillouin Scattering Method. Japanese Journal of Applied Physics, 2002, 41, 3374-3375.	0.8	1
171	3H-4 Measurement of Spatial Distribution of Crack Tips Using Low Power Laser Pulses. , 2006, , .		1
172	4E-4 Propagation Characteristics of SH-SAW in (1120) ZnO Layer/Silica Glass Substrate Structures. , 2007, , .		1
173	Multilayered shear wave resonator consisting of c-axis tilted ZnO films. , 2009, , .		1
174	A Challenge for the Quantitative Ultrasonic Evaluation of Bone. Ieice Ess Fundamentals Review, 2009, 3, 47-52.	0.1	1
175	Estimation of reflected wave in carotid pulse wave for simple and noninvasive assessment of arterial stiffness. , 2010, , .		1
176	Characterization of the fast wave in cancellous bone using the Bayesian probability theory approach. , 2011, , .		1
177	Estimation of Arterial Stiffness by Timeâ€“Frequency Analysis of Pulse Wave. Japanese Journal of Applied Physics, 2011, 50, 07HF10.	0.8	1
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