# 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 | Dependence of ultrasonic attenuation on bone mass and microstructure in bovine cortical bone. Journal of Biomechanics, 2008, 41, 347-355. | 2.1 | 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. | 1.1 | 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. | 3.9 | 75 |
| 4 | Frequency Dependence of Ultrasonic Attenuation in Bovine Cortical Bone: An In Vitro Study. Ultrasound in Medicine and Biology, 2007, 33, 1933-1942. | 1.5 | 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. | 1.5 | 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. | 3.0 | 69 |
| 7 | Micro-Brillouin Scattering Measurements in Mature and Newly Formed Bone Tissue Surrounding an Implant. Journal of Biomechanical Engineering, 2011, 133, 021006. | 1.3 | 64 |
| 8 | Shear mode electromechanical coupling coefficient k15 and crystallites alignment of (112Â¯) textured ZnO films. Journal of Applied Physics, 2007, 102, . | 2.5 | 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. | 3.0 | 55 |
| 10 | Distribution of longitudinal wave properties in bovine cortical bone in vitro. Ultrasonics, 2006, 44, e233-e237. | 3.9 | 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. | 1.3 | 51 |
| 12 | Ultrasonic characterization of a polymerizing epoxy resin with imbalanced stoichiometry. Journal of the Acoustical Society of America, 1996, 99, 2110-2115. | 1.1 | 47 |
| 13 | Correlation between Hydroxyapatite Crystallite Orientation and Ultrasonic Wave Velocities in Bovine Cortical Bone. Calcified Tissue International, 2008, 82, 162-169. | 3.1 | 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. | 3.0 | 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. | 2.9 | 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. | 1.1 | 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. | 1.1 | 36 |
| 18 | The relationship between ultrasonic backscatter and trabecular anisotropic microstructure in cancellous bone. Journal of Applied Physics, 2014, 115, . | 2.5 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 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. | 3.0 | 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. | 3.0 | 33 |
| 22 | Distribution of Longitudinal Wave Velocities in Bovine Cortical Bonein vitro. Japanese Journal of Applied Physics, 2005, 44, 4622-4624. | 1.5 | 31 |
| 23 | Signal of Interest Selection Standard for Ultrasonic Backscatter in Cancellous Bone Evaluation. Ultrasound in Medicine and Biology, 2015, 41, 2714-2721. | 1.5 | 31 |
| 24 | Formation of uniaxially (112Â¯0) textured ZnO films on glass substrates. Journal of Crystal Growth, 2005, 276, 424-430. | 1.5 | 30 |
| 25 | Ultrasound liquid crystal lens. Applied Physics Letters, 2018, 112, . | 3.3 | 29 |
| 26 | Significance of Auditory Evoked Responses (EABR and P300) in Cochlear Implant Subjects. Acta Oto-Laryngologica, 2001, 121, 257-261. | 0.9 | 28 |
| 27 | Characterization of (11ar20) Textured ZnO Films Fabricated by RF Magnetron Sputtering. Japanese Journal of Applied Physics, 2004, 43, 3004-3007. | 1.5 | 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. | 1.1 | 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. | 0.5 | 28 |
| 30 | Noninvasive assessment of arterial stiffness by pulse wave analysis. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2411-2419. | 3.0 | 27 |
| 31 | Bone Ultrasound. Japanese Journal of Applied Physics, 2019, 58, SG0802. | 1.5 | 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. | 3.0 | 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. | 3.0 | 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. | 3.9 | 23 |
| 35 | Electrical potentials in bone induced by ultrasound irradiation in the megahertz range. Applied Physics Letters, 2013, 103, . | 3.3 | 23 |
| 36 | Brillouin Scattering Study on the Elastic Properties of Epoxy Adhesive Layer. Japanese Journal of Applied Physics, 1999, 38, 3175-3178. | 1.5 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Measurement of Wave Velocity in Bovine Bone Tissue by Micro-Brillouin Scattering. Japanese Journal of Applied Physics, 2008, 47, 4205-4208. | 1.5 | 21 |
| 38 | Effects of Sputtering Gas Conditions on Formation of (112Ì„0) Textured ZnO Films. Japanese Journal of Applied Physics, 2007, 46, 4660. | 1.5 | 20 |
| 39 | Control of liquid crystal molecular orientation using ultrasound vibration. Applied Physics Letters, 2016, 108, . | 3.3 | 20 |
| 40 | Ultrasonic velocity dispersion in bovine cortical bone: An experimental study. Journal of the Acoustical Society of America, 2008, 124, 1811-1821. | 1.1 | 18 |
| 41 | Estimation of in vivo cortical bone thickness using ultrasonic waves. Journal of Medical Ultrasonics (2001), 2015, 42, 315-322. | 1.3 | 18 |
| 42 | Ultrasonic Wave Properties in Bone Axis Direction of Bovine Cortical Bone. Japanese Journal of Applied Physics, 2008, 47, 4096. | 1.5 | 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. | 3.0 | 17 |
| 44 | Molecular Orientation in a Variable-Focus Liquid Crystal Lens Induced by Ultrasound Vibration. Scientific Reports, 2020, 10, 6168. | 3.3 | 17 |
| 45 | Measurement of Wave Velocity Distribution in a Trabecula by Micro-Brillouin Scattering Technique. Japanese Journal of Applied Physics, 2010, 49, 07HB05. | 1.5 | 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. | 1.1 | 16 |
| 47 | 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 |
| 48 | Application of a micro-Brillouin scattering technique to characterize bone in the GHz range. Ultrasonics, 2014, 54, 1155-1161. | 3.9 | 16 |
| 49 | Effects of microstructure and water on the electrical potentials in bone induced by ultrasound irradiation. Applied Physics Letters, 2015, 106, . | 3.3 | 16 |
| 50 | Brillouin Scattering Study on the Opto-Acoustic Properties of Thin Piezoelectric Polymer Films. Japanese Journal of Applied Physics, 2004, 43, 2916-2919. | 1.5 | 15 |
| 51 | Properties of Ultrasonic Waves in Bovine Bone Marrow. Ultrasound in Medicine and Biology, 2011, 37, 1923-1929. | 1.5 | 15 |
| 52 | Trial of Human Bone Cross-Sectional Imaging In vivo, Using Ultrasonic Echo Waves. Japanese Journal of Applied Physics, 2013, 52, 07HF05. | 1.5 | 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. | 1.1 | 15 |
| 54 | Two-wave behavior under various conditions of transition area from cancellous bone to cortical bone. Ultrasonics, 2014, 54, 1245-1250. | 3.9 | 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. | 2.6 | 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. | 3.0 | 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. | 1.1 | 14 |
| 58 | Attempt at standardization of bone quantitative ultrasound in Japan. Journal of Medical Ultrasonics (2001), 2018, 45, 3-13. | 1.3 | 14 |
| 59 | Brillouin Scattering in Densified GeO2Glasses. Japanese Journal of Applied Physics, 1999, 38, 3062-3065. | 1.5 | 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. | 1.1 | 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. | 1.1 | 13 |
| 63 | Movable optical lens array using ultrasonic vibration. Sensors and Actuators A: Physical, 2016, 237, 35-40. | 4.1 | 13 |
| 64 | Simulation study of axial ultrasound transmission in heterogeneous cortical bone model. Japanese Journal of Applied Physics, 2017, 56, 07JF29. | 1.5 | 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. | 3.0 | 12 |
| 66 | Effect of Boundary Condition on the Two-Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2011, 50, 07HF19. | 1.5 | 12 |
| 67 | Ultrasonic optical lens array with variable focal length and pitch. Optics Letters, 2012, 37, 5256. | 3.3 | 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. | 1.1 | 12 |
| 69 | Fluid friction and wall viscosity of the 1D blood flow model. Journal of Biomechanics, 2016, 49, 565-571. | 2.1 | 12 |
| 70 | 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 |
| 71 | Ultrasound liquid crystal lens with enlarged aperture using traveling waves. Optics Letters, 2021, 46, 1169. | 3.3 | 12 |
| 72 | Ultrasonic wave properties in the particle compounded agarose gels. Ultrasonics, 2002, 40, 323-327. | 3.9 | 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. | 1.5 | 11 |
| 74 | Application of Brillouin scattering to the local anisotropy and birefringence measurements of thin layers. Ultrasonics, 2006, 44, e1555-e1559. | 3.9 | 11 |
| 75 | Wavelet Transform Analysis of Ultrasonic Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2010, 49, 07HF28. | 1.5 | 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. | 1.5 | 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. | 1.5 | 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. | 1.5 | 11 |
| 79 | Estimation of Arterial Stiffness by Timeâ€“Frequency Analysis of Pulse Wave. Japanese Journal of Applied Physics, 2011, 50, 07HF10. | 1.5 | 11 |
| 80 | Simple Analysis of the Pulse Wave for Blood Vessel Evaluation. Japanese Journal of Applied Physics, 2009, 48, 07GJ09. | 1.5 | 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. | 1.5 | 10 |
| 82 | 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 |
| 83 | Relationships between the anisotropy of longitudinal wave velocity and hydroxyapatite crystallite orientation in bovine cortical bone. Ultrasonics, 2012, 52, 377-386. | 3.9 | 10 |
| 84 | Effect of anisotropy on stress-induced electrical potentials in bovine bone using ultrasound irradiation. Applied Physics Letters, 2017, 110, . | 3.3 | 10 |
| 85 | Characterization of shear waves in cortical bone using the axial transmission technique. Japanese Journal of Applied Physics, 2019, 58, SGGE20. | 1.5 | 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. | 1.5 | 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. | 1.5 | 9 |
| 89 | On-chip ultrasonic manipulation of microparticles by using the flexural vibration of a glass substrate. Ultrasonics, 2017, 79, 81-86. | 3.9 | 9 |
| 90 | Ultrasound liquid crystal lens with a variable focus in the radial direction for image stabilization. Applied Optics, 2021, 60, 10365. | 1.8 | 9 |

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| 91 | Observation of Induced Shear Acoustic Phonons by Brillouin Scattering. Japanese Journal of Applied Physics, 2007, 46, 4626. | 1.5 | 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. | 1.1 | 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. | 3.0 | 8 |
| 94 | Effect of medullary cavity in cancellous bone on two-wave phenomenon. Japanese Journal of Applied Physics, 2016, 55, 07KF16. | 1.5 | 8 |
| 95 | Fabrication of oriented hydroxyapatite film by RF magnetron sputtering. AIP Advances, 2017, 7, . | 1.3 | 8 |
| 96 | Varifocal optical lens using ultrasonic vibration and thixotropic gel. Journal of the Acoustical Society of America, 2021, 149, 3954-3960. | 1.1 | 8 |
| 97 | Multimodal Evaluation of the Spatiotemporal Variations of Periprosthetic Bone Properties. Journal of Biomechanical Engineering, 2020, 142, . | 1.3 | 8 |
| 98 | Effect of Boundary Condition on the Two-Wave Propagation in Cancellous Bone. Japanese Journal of Applied Physics, 2011, 50, 07HF19. | 1.5 | 8 |
| 99 | Brillouin Scattering and Ultrasonic Study on an Epoxy Prepolymer. Japanese Journal of Applied Physics, 1997, 36, 2976-2980. | 1.5 | 7 |
| 100 | Brillouin scattering study of epoxy adhesive layers during cure. Ultrasonics, 2000, 38, 466-469. | 3.9 | 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. | 1.5 | 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. | 1.5 | 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. | 1.5 | 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. | 1.1 | 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. | 1.1 | 7 |
| 107 | Periodic pattern of liquid crystal molecular orientation induced by ultrasound vibrations. Applied Physics Letters, 2017, 111, . | 3.3 | 7 |
| 108 | Ultrasonically-induced electrical potentials in demineralized bovine cortical bone. AIP Advances, 2018, 8, . | 1.3 | 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, . | 1.3 | 7 |
| 110 | Growth of cortical bone thickness and trabecular bone density in Japanese children. Bone, 2020, 141, 115669. | 2.9 | 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. | 1.5 | 7 |
| 112 | Study on photoacoustic properties of bovine cortical bone. Japanese Journal of Applied Physics, 2022, 61, SG1019. | 1.5 | 7 |
| 113 | An ultrasonic evaluation of the sol-gel synthesis of silica glass. Ultrasonics, 1996, 34, 335-338. | 3.9 | 6 |
| 114 | Effect of Viscoelasticity of Vessel Walls on Pulse Wave. Japanese Journal of Applied Physics, 2010, 49, 07HF12. | 1.5 | 6 |
| 115 | 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 |
| 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. | 3.0 | 6 |
| 117 | Two-wave propagation in in vitro swine distal ulna. Japanese Journal of Applied Physics, 2015, 54, 07HF02. | 1.5 | 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. | 1.5 | 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. | 0.5 | 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. | 1.5 | 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. | 2.5 | 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. | 3.0 | 5 |
| 126 | Ultrasound radiation from a three-layer thermoacoustic transformation device. Ultrasonics, 2015, 57, 84-89. | 3.9 | 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. | 3.0 | 5 |
| 128 | Vibration Characteristics and Persistence of Poloxamer- or Phospholipid-Coated Single Microbubbles under Ultrasound Irradiation. Langmuir, 2019, 35, 11322-11329. | 3.5 | 5 |
| 129 | Effect of sputtering geometry on (1120) textured ZnO piezofilm. Acoustical Science and Technology, 2006, 27, 53-55. | 0.5 | 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. | 1.3 | 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. | 3.0 | 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. | 2.8 | 4 |
| 136 | Fabrication of an optical lens array using ultraviolet light and ultrasonication. Ultrasonics, 2015, 58, 22-26. | 3.9 | 4 |
| 137 | Prolonged Hyperglycemia Reduces Elasticity of Type II Diabetic Rat Bone. Calcified Tissue International, 2020, 107, 381-388. | 3.1 | 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. | 1.3 | 4 |
| 139 | Anisotropic Longitudinal Wave Propagation in Swine Skull. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 65-71. | 3.0 | 4 |
| 140 | Experimental Study on the Pulse Wave Propagation in a Human Artery Model. Japanese Journal of Applied Physics, 2011, 50, 07HF12. | 1.5 | 4 |
| 141 | Effects of tensile stress on the hypersonic wave velocities in polymer films.. Acoustical Science and Technology, 2001, 22, 375-377. | 0.5 | 4 |
| 142 | Ultrasonic Wave Propagation in Particle Compounded Gels. Japanese Journal of Applied Physics, 1999, 38, 3023-3027. | 1.5 | 3 |
| 143 | Effects of Tensile Stress on the Hypersonic Properties of Thin Polymer Films. Japanese Journal of Applied Physics, 2001, 40, 3511-3515. | 1.5 | 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. | 1.5 | 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. | 1.5 | 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. | 3.0 | 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. | 4.1 | 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. | 1.5 | 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. | 3.0 | 3 |
| 153 | Simulation study on the effects of cancellous bone structure in the skull on ultrasonic wave propagation. Scientific Reports, 2021, 11, 17592. | 3.3 | 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. | 1.5 | 3 |
| 155 | The Effect of Crosslinks on Ultrasonic Properties in Glassy Epoxy Resin. Japanese Journal of Applied Physics, 1991, 30, 28. | 1.5 | 3 |
| 156 | Ultrasonic Study of Sub Î² Relaxation in Epoxides Cured with Aliphatic Diamines. Japanese Journal of Applied Physics, 1992, 31, 26. | 1.5 | 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, . | 2.5 | 3 |
| 159 | Application of a Suspension Theory to Particle-Dispersed Agarose Gels. Japanese Journal of Applied Physics, 2002, 41, 3163-3167. | 1.5 | 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. | 1.1 | 2 |
| 166 | Transportation and discrimination of cells using ultrasound flexural vibration of a glass substrate. Japanese Journal of Applied Physics, 2019, 58, SGGD10. | 1.5 | 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. | 3.0 | 2 |
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