Hirotsugu Ogi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105 papers	1,690 citations	24 h-index	39 g-index
109 ext. papers	1,932 ext. citations	4.5 avg, IF	4.65 L-index

#	Paper	IF	Citations
105	Acceleration of amyloid fibril formation by multichannel sonochemical reactor. *Japanese Journal of Applied Physics*, **2022**, 61, SG1002	1.4	0
104	Development of HANABI, an ultrasonication-forced amyloid fibril inducer.. *Neurochemistry International*, **2021**, 153, 105270	4.4	0
103	Sensitive label-free immunoglobulin G detection using a MEMS quartz crystal microbalance biosensor with a 125 MHz wireless quartz resonator. *Japanese Journal of Applied Physics*, **2021**, 60, SDDB03	1.4	5
102	Spontaneous nucleation on flat surface by depletion force in colloidal suspension. *Scientific Reports* , **2021**, 11, 8929	4.9	0
101	Optimized sonoreactor for accelerative amyloid-fibril assays through enhancement of primary nucleation and fragmentation. *Ultrasonics Sonochemistry*, **2021**, 73, 105508	8.9	6
100	MEMS hydrogen gas sensor with wireless quartz crystal resonator. *Sensors and Actuators B: Chemical*, **2021**, 334, 129651	8.5	14
99	Disaggregation Behavior of Amyloid Fibrils by Anthocyanins Studied by Total-Internal-Reflection-Fluorescence Microscopy Coupled with a Wireless Quartz-Crystal Microbalance Biosensor. *Analytical Chemistry*, **2021**, 93, 11176-11183	7.8	3
98	Half-Time Heat Map Reveals Ultrasonic Effects on Morphology and Kinetics of Amyloidogenic Aggregation Reaction. *ACS Chemical Neuroscience*, **2021**, 12, 3456-3466	5.7	2
97	Enhancement of sensitivity of Pd-based hydrogen-gas sensor by plasma exposure studied by wireless quartz resonator. *Japanese Journal of Applied Physics*, **2020**, 59, SKKB02	1.4	7
96	Observation of growth process of thin film on heated substrate by using resistive spectroscopy. *The Proceedings of Mechanical Engineering Congress Japan*, **2020**, 2020, J04109	0	
95	Mechanism of affinity-enhanced protein adsorption on bio-nanocapsules studied by viscoelasticity measurement with wireless QCM biosensor. *Japanese Journal of Applied Physics*, **2020**, 59, SKKB03	1.4	5
94	Interplanar stiffness in defect-free monocrystalline graphite. *Physical Review Materials*, **2020**, 4,	3.2	3
93	Time-Resolved Observation of Evolution of Amyloid- Oligomer with Temporary Salt Crystals. *Journal of Physical Chemistry Letters*, **2020**, 11, 6176-6184	6.4	3
92	Mechanical oscillation accelerating nucleation and nuclei growth in hard-sphere colloidal glass. *Scientific Reports*, **2019**, 9, 12836	4.9	3
91	Ultrasonication-based rapid amplification of -synuclein aggregates in cerebrospinal fluid. *Scientific Reports*, **2019**, 9, 6001	4.9	19
90	Ultrahigh-Frequency, Wireless MEMS QCM Biosensor for Direct, Label-Free Detection of Biomarkers in a Large Amount of Contaminants. *Analytical Chemistry*, **2019**, 91, 9398-9402	7.8	22
89	Evaluation of Wall Thinning using Mode Conversion of Guided Wave. *The Proceedings of Mechanical Engineering Congress Japan*, **2019**, 2019, J40146	0	

88	Deposition of Semicontinuous Film on Silicon Substrate using Noncontacting Piezoelectric Resonance Method. *The Proceedings of Mechanical Engineering Congress Japan*, **2019**, 2019, J04303	0	
87	Nano-plate biosensor array using ultrafast heat transport through proteins. *Sensors and Actuators B: Chemical*, **2019**, 278, 15-20	8.5	9
86	Viscoelasticity Response during Fibrillation of Amyloid Peptides on a Quartz-Crystal-Microbalance Biosensor. *Langmuir*, **2018**, 34, 5474-5479	4	6
85	Observation of Morphology Change of Metallic Films Deposited on Silica Glass Using Noncontact Piezoelectric Resonance Method. *The Proceedings of Mechanical Engineering Congress Japan*, **2018**, 2018, J0410401	0	
84	Principle and Applications of Wireless Quartz-crystal-microbalance Biosensors. *Ieice Ess Fundamentals Review*, **2018**, 11, 180-185	0.1	
83	Optimized Ultrasonic Irradiation Finds Out Ultrastable A Oligomers. *Journal of Physical Chemistry B*, **2017**, 121, 2603-2613	3.4	5
82	Accelerated crystallization of colloidal glass by mechanical oscillation. *Scientific Reports*, **2017**, 7, 1369	4.9	5
81	Drastic acceleration of fibrillation of insulin by transient cavitation bubble. *Ultrasonics Sonochemistry*, **2017**, 36, 206-211	8.9	18
80	Thermal Mode Spectroscopy for Thermal Diffusivity of Millimeter-Size Solids. *Physical Review Letters*, **2016**, 117, 195901	7.4	5
79	Quantitative Young-Modulus Mapping by Resonant Ultrasound Microscopy. *Materia Japan*, **2016**, 55, 577-577	0.1	
78	Nucleus factory on cavitation bubble for amyloid fibril. *Scientific Reports*, **2016**, 6, 22015	4.9	32
77	Microtubule severing by katanin p60 AAA+ ATPase requires the C-terminal acidic tails of both and tubulins and basic amino acid residues in the AAA+ ring pore. *Journal of Biological Chemistry*, **2015**, 290, 11762-70	5.4	25
76	Relationship between viscosity change and specificity in protein binding reaction studied by high-frequency wireless and electrodeless MEMS biosensor. *Japanese Journal of Applied Physics*, **2015**, 54, 068001	1.4	4
75	Viscoelasticity evolution in protein layers during binding reactions evaluated using high-frequency wireless and electrodeless quartz crystal microbalance biosensor without dissipation. *Japanese Journal of Applied Physics*, **2015**, 54, 096601	1.4	5
74	Nucleation fibrillation dynamics of A 1-40peptides on liquid solid surface studied by total-internal-reflection fluorescence microscopy coupled with quartz-crystal microbalance biosensor. *Japanese Journal of Applied Physics*, **2015**, 54, 07HE01	1.4	2
73	Ultrafast propagation of amyloid fibrils in oligomeric cloud. *Scientific Reports*, **2014**, 4, 6960	4.9	25
72	Calibration-free portable Young's-modulus tester with isolated langasite oscillator. *Ultrasonics*, **2014**, 54, 1963-6	3.5	3
71	J0430104 Microstructure Dependence of Internal Friction in Plasma Sprayed CoNiCrAlY. *The Proceedings of Mechanical Engineering Congress Japan*, **2014**, 2014, _J0430104--_J0430104-	0	

70	Acceleration of deposition of A□(1-40) peptide on ultrasonically formed A□(1-42) nucleus studied by wireless quartz-crystal-microbalance biosensor. *Biosensors and Bioelectronics*, **2013**, 40, 200-5	11.8	8
69	Wireless-electrodeless quartz-crystal-microbalance biosensors for studying interactions among biomolecules: a review. *Proceedings of the Japan Academy Series B: Physical and Biological Sciences*, **2013**, 89, 401-17	4	46
68	2P069 The mechanism of ultrasonication-induced amyloid fibril formation(01C. Protein: Property). *Seibutsu Butsuri*, **2013**, 53, S170	0	
67	Resonance acoustic microbalance with naked-embedded quartz (RAMNE-Q) biosensor fabricated by microelectromechanical-system process. *Biosensors and Bioelectronics*, **2012**, 33, 139-45	11.8	17
66	Distinguishing crystal-like amyloid fibrils and glass-like amorphous aggregates from their kinetics of formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 14446-51	11.5	200
65	Picosecond ultrasound spectroscopy for studying elastic modulus of thin films: a review. *Nondestructive Testing and Evaluation*, **2011**, 26, 267-280	2	9
64	Ultrasonication-dependent acceleration of amyloid fibril formation. *Journal of Molecular Biology*, **2011**, 412, 568-77	6.5	54
63	OS02-2-5 Picosecond Ultrasound Spectroscopy for High Purity Boron Nitrides. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2011**, 2011.10, _OS02-2-5-	0	
62	OS02F016 Picosecond ultrasound at low temperatures for Pd thin films. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2011**, 2011.10, _OS02F016--_OS02F016-	0	
61	Replacement-free mass-amplified sandwich assay with 180-MHz electrodeless quartz-crystal microbalance biosensor. *Biosensors and Bioelectronics*, **2011**, 26, 4819-22	11.8	32
60	Seed-dependent deposition behavior of A□peptides studied with wireless quartz-crystal-microbalance biosensor. *Analytical Chemistry*, **2011**, 83, 4982-8	7.8	19
59	High-Frequency Electrodeless Quartz Crystal Microbalance Chip with a Bare Quartz Resonator Encapsulated in a Silicon Microchannel. *Japanese Journal of Applied Physics*, **2011**, 50, 07HD03	1.4	5
58	OS02-1-1 Evaluation of Elastic Constant Changes in Ferritic Steel Pipes from Industrial Boiler by the RUS-EMAR. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2011**, 2011.10, _OS02-1-1-	0	
57	OS02-2-2 Low-temperature elastic anomaly of Pd thin films studied by picosecond ultrasound. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2011**, 2011.10, _OS02-2-2-	0	
56	OS02F023 Picosecond Ultrasound Spectroscopy for High Purity Boron Nitrides. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2011**, 2011.10, _OS02F023--_OS02F023-	0	
55	OS02-4-3 High Temperature Elastic Properties of Thermal Barrier Coating by Resonance Ultrasound Spectroscopy. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2011**, 2011.10, _OS02-4-3-	0	
54	OS02-4-2 Temperature dependences of elastic constants and internal friction of □-quartz near □-□ phase transformation studied by antenna-transmission noncontacting acoustic resonance method. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2011**, 2011.10, _OS02-4-2-	0	
53	SURFACE-WAVE NONLINEARITY MEASURED WITH EMAT FOR FATIGUED STEELS **2011**, 75-89		

52	Development of Wavelength-Tunable Picosecond Ultrasound Method for Evaluating Ultrasonic Attenuation in Oxide Thin Films. *Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A*, **2010**, 76, 1444-1451		
51	2P051 High Speed Amyloid Fibrilization Induced by Ultrasonication(The 48th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2010**, 50, S91	0	
50	Multichannel wireless-electrodeless quartz-crystal microbalance immunosensor. *Analytical Chemistry*, **2010**, 82, 3957-62	7.8	28
49	Elastic Constant and Microstructure of Oxide Thin Films Studied by Brillouin Oscillation. *Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A*, **2009**, 75, 72-78		
48	Nonspecific-adsorption behavior of polyethylenglycol and bovine serum albumin studied by 55-MHz wireless-electrodeless quartz crystal microbalance. *Biosensors and Bioelectronics*, **2009**, 24, 3148-52	11.8	54
47	170-MHz electrodeless quartz crystal microbalance biosensor: capability and limitation of higher frequency measurement. *Analytical Chemistry*, **2009**, 81, 8068-73	7.8	68
46	Replacement-free electrodeless quartz crystal microbalance biosensor using nonspecific-adsorption of streptavidin on quartz. *Analytical Chemistry*, **2009**, 81, 4015-20	7.8	17
45	Measurements of Thin-Film Elastic Constants. *Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A*, **2009**, 75, 397-403		
44	Ab-Initio Calculation Model for Nanocrystalline Diamond with Non-sp^3 Bonded Region and Its Effect on Elastic Properties. *Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A*, **2009**, 75, 1424-1429		
43	J0406-1-2 Resonance Measurements for Nanostructures and Their Application to Ultrahigh-Sensitive Biosensors. *The Proceedings of the JSME Annual Meeting*, **2009**, 2009.6, 413-414		
42	Effects of flow rate on sensitivity and affinity in flow injection biosensor systems studied by 55-MHz wireless quartz crystal microbalance. *Analytical Chemistry*, **2008**, 80, 5494-500	7.8	33
41	Laser-Induced Coherent Acoustic Phonons for Measuring Elastic Constants of Ultra-Thin Films. *Journal of Solid Mechanics and Materials Engineering*, **2008**, 2, 1420-1426		2
40	Imaging of local stiffness of damaged polycrystalline copper: nondestructive evaluation by resonance ultrasound microscopy. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 1514-20	3.2	1
39	Complete set of elastic and piezoelectric coefficients of □quartz at low temperatures. *Journal of Applied Physics*, **2007**, 102, 113508	2.5	35
38	Concentration dependence of IgG-protein A affinity studied by wireless-electrodeless QCM. *Biosensors and Bioelectronics*, **2007**, 22, 3238-42	11.8	67
37	Wireless electrodeless piezomagnetic biosensor with an isolated nickel oscillator. *Biosensors and Bioelectronics*, **2006**, 21, 2001-5	11.8	10
36	Isolated electrodeless high-frequency quartz crystal microbalance for immunosensors. *Analytical Chemistry*, **2006**, 78, 6903-9	7.8	64
35	Relationship between Elastic Constants and Microstructure of Nanocrystalline CVD Diamond Thin Films. *Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A*, **2006**, 72, 1819-1824		1

34	Effect of elastic anisotropy on contact stiffness in resonance ultrasound microscopy. *Applied Physics Letters*, **2005**, 87, 204107	3.4	8
33	Correlation Between Elastic Constants and Magnetic Anisotropy in Co/Pt Superlattice Thin Films. *Materials Research Society Symposia Proceedings*, **2005**, 875, 1		
32	Elastic Constants and Graphitic Grain Boundaries of Nanocrystalline CVD-Diamond Thin Films: Resonant Ultrasound Spectroscopy and Micromechanics Calculation. *Materials Research Society Symposia Proceedings*, **2005**, 875, 1		
31	Advanced Resonant-Ultrasound Spectroscopy for Studying Anisotropic Elastic Constants of Thin Films. *Materials Research Society Symposia Proceedings*, **2005**, 875, 1		1
30	Low-temperature elastic and piezoelectric constants of paratellurite (□TeO2). *Journal of Applied Physics*, **2004**, 96, 6201-6206	2.5	19
29	Vibration analysis of an elastic-sphere oscillator contacting semi-infinite viscoelastic solids in resonant ultrasound microscopy. *Journal of Applied Physics*, **2004**, 95, 8366-8375	2.5	14
28	Elastic constants of body-centered-cubic titanium monocrystals. *Journal of Applied Physics*, **2004**, 95, 4642-4644	2.5	57
27	Elastic□stiffness mapping by resonance-ultrasound microscopy with isolated piezoelectric oscillator. *Applied Physics Letters*, **2003**, 83, 464-466	3.4	25
26	Young□ modulus mapping on SCS-6 SiCf/Ti-6Al-4V composite by electromagnetic-resonance-ultrasound microscopy. *Journal of Applied Physics*, **2003**, 94, 6472-6476	2.5	10
25	Brightened single-bubble sonoluminescence by phase-adjusted high-frequency acoustic pulse. *Physical Review E*, **2003**, 67, 056301	2.4	2
24	OS06W0137 Acoustic spectroscopy for measuring anisotropic elastic constants of thin films. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2003**, 2003.2, _OS06W0137-_OS06W0137	0	
23	OS6(5)-22(OS06W0137) Acoustic Spectroscopy for Measuring Anisotropic Elastic Constants of Thin Films. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2003**, 2003, 237	0	
22	OS2(3)-11(OS02W0120) Change of Ultrasonic Attenuation and Microstructure Evolution During Creep of Nickel Base Superalloy. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2003**, 2003, 161	0	
21	Measurement of elastic constants of copper thin films and microstructure evaluation by acoustic-resonance method. *Proceedings of the 1992 Annual Meeting of JSME/MMD*, **2003**, 2003, 439-440		
20	OS02W0120 Change of ultrasonic attenuation and microstructure evolution during creep of nickel base superalloy. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2003**, 2003.2, _OS02W0120-_OS02W0120	0	
19	Measurement of elastic-stiffness tensor of an anisotropic thin film by electromagnetic acoustic resonance. *Ultrasonics*, **2002**, 40, 333-6	3.5	4
18	Activation of TiO2 photocatalyst by single-bubble sonoluminescence for water treatment. *Ultrasonics*, **2002**, 40, 649-50	3.5	35
17	Acoustic study of dislocation rearrangement at later stages of fatigue: Noncontact prediction of remaining life. *Journal of Applied Physics*, **2002**, 91, 1849-1854	2.5	14

16	Complete mode identification for resonance ultrasound spectroscopy. *Journal of the Acoustical Society of America*, **2002**, 112, 2553-7	2.2	117
15	Elastic constants of lotus-type porous metal : measurement and micromechanics modeling. *Proceedings of the 1992 Annual Meeting of JSME/MMD*, **2002**, 2002, 73-74		
14	Measurement of the elastic-stiffness tensor of SiC_f/Ti composites at elevated temperatures and nondestructive evaluation of disbonding. *Proceedings of the 1992 Annual Meeting of JSME/MMD*, **2002**, 2002, 405-406		
13	Snoek relaxation and dislocation damping in aged Fe-Cu-Ni steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2001**, 32, 1671-1677	2.3	8
12	Elastic properties of a crossply SiC f /Ti composite at elevated temperatures. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2001**, 32, 425-429	2.3	3
11	Noncontact monitoring of surface-wave nonlinearity for predicting the remaining life of fatigued steels. *Journal of Applied Physics*, **2001**, 90, 438-442	2.5	59
10	350 Noncontact Measurement of Nonlinear Acoustics During Fatigue of Carbon Steels. *Proceedings of the 1992 Annual Meeting of JSME/MMD*, **2001**, 2001, 331-332		
9	Ultrasonic attenuation peak in steel and aluminum alloy during rotating bending fatigue. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2000**, 31, 1121-1128	2.3	26
8	Elastic stiffnesses of an NbTi/Cu-composite superconductive wire. *Journal of Applied Physics*, **2000**, 88, 2378-2381	2.5	3
7	Measurement of Elastic Stiffness Tensor of an SiCf/Ti Cross-Ply Composite at Elevated Temperatures. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2000**, 64, 495-501	0.4	
6	Contactless mode-selective resonance ultrasound spectroscopy: Electromagnetic acoustic resonance. *Journal of the Acoustical Society of America*, **1999**, 106, 660-665	2.2	88
5	Noncontact Measurement of Ultrasonic Velocity and Attenuation in Polycrystalline Pure Copper During Initial Stage of Deformation. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **1998**, 62, 820-826	0.4	1
4	Noncontact measurement of ultrasonic attenuation during rotating fatigue test of steel. *Journal of Applied Physics*, **1997**, 81, 3677-3684	2.5	42
3	Field dependence of coupling efficiency between electromagnetic field and ultrasonic bulk waves. *Journal of Applied Physics*, **1997**, 82, 3940-3949	2.5	93
2	Ultrasonic attenuation and grain-size evaluation using electromagnetic acoustic resonance. *Journal of the Acoustical Society of America*, **1995**, 98, 458-464	2.2	55
1	Contactless Measurement of Ultrasonic Attenuation and Average Grain Size with Electromagnetic Acoustic Resonance. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **1994**, 58, 1021-1028	0.4	