

Walter Arnold

List of Publications by Year in descending order

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209
papers

6,773
citations

71102

41
h-index

66911

78
g-index

220
all docs

220
docs citations

220
times ranked

3736
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal noise in contact atomic force microscopy. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	6
2	Nanoscale ultrasonic subsurface imaging with atomic force microscopy. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	17
3	The fractal nature as new frontier in microstructural characterization and relativization of scale sizes within space. <i>Modern Physics Letters B</i> , 2020, 34, 2050421.	1.9	7
4	Elastic Moduli of Nanoglasses and Melt-Spun Metallic Glasses by Ultrasonic Time-of-Flight Measurements. <i>Transactions of the Indian Institute of Metals</i> , 2020, 73, 1363-1371.	1.5	5
5	Nondestructive Testing of Electronic and Ceramic Components. , 2019, , .		0
6	Surface mechanical properties of comet 67P. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SG0801.	1.5	2
7	Depth-sensing using AFM contact-resonance imaging and spectroscopy at the nanoscale. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	15
8	Contrast Mechanism of Ultrasonic-based Atomic Force Microscopy for Subsurface Imaging. , 2019, , .		1
9	Universal aspects of sonolubrication in amorphous and crystalline materials. <i>Journal of Applied Physics</i> , 2018, 123, 035301.	2.5	6
10	Structure and elastic parameters of the near surface of Abydos site on comet 67P/Churyumov-Gerasimenko, as obtained by SESAME/CASSE listening to the MUPUS insertion phase. <i>Icarus</i> , 2018, 310, 165-193.	2.5	28
11	Compressive strength and elastic modulus at Agilkia on comet 67P/Churyumov-Gerasimenko derived from the SESAME/CASSE touchdown signals. <i>Icarus</i> , 2018, 303, 251-264.	2.5	9
12	Dust Impact Monitor (SESAME-DIM) on-board Rosetta/Philae: Aerogel as comet analog material. <i>Icarus</i> , 2018, 302, 1-9.	2.5	4
13	Nonlinear Behavior of Contact Resonance Atomic Force Microscopy Due to Stick-Slip Phenomena. , 2018, , .		0
14	Stick-to-sliding transition in contact-resonance atomic force microscopy. <i>Applied Physics Letters</i> , 2018, 113, 083102.	3.3	5
15	Detection of subsurface cavity structures using contact-resonance atomic force microscopy. <i>Journal of Applied Physics</i> , 2017, 121, 154301.	2.5	26
16	Linking macroscopic rejuvenation to nano-elastic fluctuations in a metallic glass. <i>Acta Materialia</i> , 2017, 138, 111-118.	7.9	76
17	Conduction electrons as dissipation channel in friction experiments at the metal-metal transition of LSMO measured by contact-resonance atomic force microscopy. <i>Applied Physics Letters</i> , 2017, 110, 053102.	3.3	5
18	Corrigendum to "The SESAME/CASSE instrument listening to the MUPUS PEN insertion phase on comet 67P/Churyumov-Gerasimenko" [Acta Astronaut., DOI: 10.1016/j.actaastro.2016.02.018]. <i>Acta Astronautica</i> , 2016, 123, 227-228.	3.2	1

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19	Elastic stiffness and damping measurements in titanium alloys using atomic force acoustic microscopy. <i>Journal of Alloys and Compounds</i> , 2016, 676, 397-406.	5.5	13
20	The SESAME/CASSE instrument listening to the MUPUS PEN insertion phase on comet 67P/Churyumov-Gerasimenko. <i>Acta Astronautica</i> , 2016, 125, 234-249.	3.2	14
21	Measurement of the Indentation Modulus and the Local Internal Friction in Amorphous SiO ₂ Using Atomic Force Acoustic Microscopy. <i>Archives of Metallurgy and Materials</i> , 2016, 61, 9-12.	0.6	0
22	ROSETTA lander Philae "soil strength analysis. <i>Icarus</i> , 2016, 280, 359-365.	2.5	23
23	Force Modulation in Atomic Force Microscopy. , 2016, , 1242-1251.		0
24	Dust Impact Monitor (SESAME-DIM) measurements at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A15.	5.1	16
25	Mapping of elasticity and damping in an $\hat{1}\pm + \hat{1}^2$ titanium alloy through atomic force acoustic microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 767-776.	2.8	9
26	The landing(s) of Philae and inferences about comet surface mechanical properties. <i>Science</i> , 2015, 349, aaa9816.	12.6	212
27	A method for inverting the touchdown shock of the Philae lander on comet 67P/Churyumov-Gerasimenko. <i>Planetary and Space Science</i> , 2015, 106, 46-55.	1.7	8
28	Force Modulation in Atomic Force Microscopy. , 2015, , 1-11.		0
29	Local elasticity and mobility of twin boundaries in martensitic films studied by atomic force acoustic microscopy. <i>New Journal of Physics</i> , 2014, 16, 013034.	2.9	8
30	A single shear band in a metallic glass: Local core and wide soft zone. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	85
31	Stored Mechanical Work in Inhomogeneous Deformation Processes of a Pd-Based Bulk Metallic Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 2389-2392.	2.2	5
32	Measurement of local internal friction in metallic glasses. <i>Journal of Applied Physics</i> , 2014, 115, 134307.	2.5	11
33	Dust Impact Monitor (DIM) onboard Rosetta/Philae: Tests with ice particles as comet analog materials. <i>Planetary and Space Science</i> , 2014, 99, 128-135.	1.7	4
34	Finite element simulation of moldboard "soil interaction. <i>Soil and Tillage Research</i> , 2013, 134, 11-16.	5.6	68
35	Dust Impact Monitor (DIM) onboard Rosetta/Philae: Comparison of experimental results and the theory behind the experiment. <i>Planetary and Space Science</i> , 2013, 84, 122-130.	1.7	8
36	Friction and Internal Friction Measurements by Atomic Force Acoustic Microscopy. <i>Nanoscience and Technology</i> , 2013, , 391-416.	1.5	0

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37	Ultrasonic absorption in fatigued materials. , 2013, , .		1
38	Fusion of visual and infrared thermography images for advanced assessment in non-destructive testing. Review of Scientific Instruments, 2013, 84, 064902.	1.3	8
39	Combining spectral material properties in the infrared and the visible spectral range for qualification and nondestructive evaluation of components. , 2012, , .		1
40	Erratum Z. PhysChem, 222, 471-498 (2008). Zeitschrift Fur Physikalische Chemie, 2012, 226, 87-88.	2.8	0
41	Fullerenes for Drug Delivery. , 2012, , 898-911.		1
42	Finite Element Methods for Computational Nano-optics. , 2012, , 837-843.		3
43	Functionalization of Carbon Nanotubes. , 2012, , 911-919.		5
44	Fundamental Properties of Zinc Oxide Nanowires. , 2012, , 919-927.		0
45	Local elastic properties of a metallic glass. Nature Materials, 2011, 10, 439-442.	27.5	366
46	Shear softening of grain boundaries in nanocrystalline Pd. Acta Materialia, 2011, 59, 1523-1529.	7.9	33
47	Tomographic Reconstruction of Defects in Composite Plates Using Genetic Algorithms with Cluster Analysis. Research in Nondestructive Evaluation, 2011, 22, 31-60.	1.1	13
48	Imaging of subsurface structures using atomic force acoustic microscopy at GHz frequencies. Journal of Applied Physics, 2011, 109, .	2.5	31
49	Size retrieval of defects in composite material with lockin thermography. Journal of Physics: Conference Series, 2010, 214, 012093.	0.4	7
50	Tomographic Reconstruction of Elastic Constants in Composite Materials Using Numerical and Experimental Laser Ultrasonic Data. Research in Nondestructive Evaluation, 2010, 21, 61-90.	1.1	3
51	On the Contribution of Friction to the Contact Damping in Atomic Force Acoustic Microscopy. Japanese Journal of Applied Physics, 2010, 49, 120204.	1.5	9
52	Dynamical and quasistatic structural relaxation paths in Pd40Ni40P20 glass. Applied Physics Letters, 2009, 95, 201903.	3.3	21
53	Simulation of vibrational resonances of stiff AFM cantilevers by finite element methods. New Journal of Physics, 2009, 11, 083034.	2.9	42
54	Observation of local internal friction and plasticity onset in nanocrystalline nickel by atomic force acoustic microscopy. Acta Materialia, 2009, 57, 4353-4363.	7.9	41

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55	Reconstruction of the defect shape from lock-in thermography phase images. Quantitative InfraRed Thermography Journal, 2009, 6, 63-78.	4.2	12
56	INDUCTION AND CONDUCTION THERMOGRAPHY: OPTIMIZING THE ELECTROMAGNETIC EXCITATION TOWARDS APPLICATION. , 2009, , .		27
57	Rosetta Lander (â€œPhilaeâ€) Investigations. , 2009, , 1-171.		2
58	Three-point hitch-mechanism instrumentation for tillage power optimization. Biosystems Engineering, 2008, 100, 24-30.	4.3	29
59	Cascade cross modulation due to the nonlinear interaction of elastic waves in samples with cracks. Acoustical Physics, 2008, 54, 398-406.	1.0	5
60	Quantitative Evaluation of Elastic Properties of Nano-Crystalline Nickel Using Atomic Force Acoustic Microscopy. Zeitschrift Fur Physikalische Chemie, 2008, 222, 471-498.	2.8	31
61	Combinatorial Fabrication of Thin Film-Libraries and Evaluation of their Piezoelectricity by Ultrasonic Piezo-Mode Imaging. Zeitschrift Fur Physikalische Chemie, 2008, 222, 587-600.	2.8	0
62	Non-Destructive Testing of Die-Casting Components of Non-Ferrous Metals for Surface-Near Porosity by High-Frequency Ultrasound. Acoustical Imaging, 2008, , 223-232.	0.2	3
63	MECHANISMS AND MODELS FOR CRACK DETECTION WITH INDUCTION THERMOGRAPHY. AIP Conference Proceedings, 2008, , .	0.4	75
64	Mapping of Elastic Stiffness in an $\hat{1}\pm\hat{1}^2$ Titanium Alloy using Atomic Force Acoustic Microscopy. Japanese Journal of Applied Physics, 2008, 47, 6077.	1.5	23
65	Excitation of atomic force microscope cantilever vibrations by a Schottky barrier. Applied Physics Letters, 2008, 92, .	3.3	18
66	Elasticity mapping of precipitates in polycrystalline materials using atomic force acoustic microscopy. Applied Physics Letters, 2008, 92, .	3.3	32
67	Tomographic Imaging of Glass $\hat{1}$ Epoxy Composite with a Laser Based Ultrasonics Setup. AIP Conference Proceedings, 2008, , .	0.4	0
68	PrÃ¼fung von Nicht-Eisen-Metall-Druckgusskomponenten. Materialpruefung/Materials Testing, 2008, 50, 206-215.	2.2	0
69	Quantitative Evaluation of Elastic Properties of Nano-Crystalline Nickel Using Atomic Force Acoustic Microscopy. , 2008, , 247-274.		0
70	Combinatorial Fabrication of Thin Film-Libraries and Evaluation of their Piezoelectricity by Ultrasonic Piezo-Mode Imaging. , 2008, , 363-376.		0
71	Nonlinear contact resonance spectroscopy in atomic force microscopy. Journal Physics D: Applied Physics, 2007, 40, 7136-7145.	2.8	25
72	Image blur in a flat-panel detector due to Compton scattering at its internal mountings. Measurement Science and Technology, 2007, 18, 1270-1277.	2.6	12

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73	Elastic Properties of Clay Minerals Determined by Atomic Force Acoustic Microscopy Technique. Acoustical Imaging, 2007, , 409-416.	0.2	10
74	Finite-Element Simulation of Cantilever Vibrations in Atomic Force Acoustic Microscopy. Journal of Physics: Conference Series, 2007, 61, 293-297.	0.4	6
75	Combinatorial synthesis of thin mixed oxide films and automated study of their piezoelectric properties. Progress in Solid State Chemistry, 2007, 35, 361-366.	7.2	11
76	Influence of the cantilever holder on the vibrations of AFM cantilevers. Nanotechnology, 2007, 18, 044008.	2.6	43
77	Non-destructive testing of laser welds in tailored blanks using electromagnetic transducers. Nondestructive Testing and Evaluation, 2007, 22, 1-0.	2.1	4
78	Application of a portable nuclear magnetic resonance surface probe to porous media. Journal of Magnetic Resonance, 2007, 185, 19-27.	2.1	21
79	Sesame " An Experiment of the Rosetta Lander Philae: Objectives and General Design. Space Science Reviews, 2007, 128, 301-337.	8.1	53
80	Near-Field Acoustical Imaging using Lateral Bending Mode of Atomic Force Microscope Cantilevers. Acoustical Imaging, 2007, , 31-41.	0.2	1
81	Combinatorial Synthesis of Thin Mixed Oxide-Films and Examinations of Their Piezoelectricity by Ultrasonic Piezo-Mode Imaging. , 2007, , 80-83.		2
82	Image Acquisition and Analysis of Hazardous Biological Material in Air. , 2007, , 1-14.		2
83	Calibration and Evaluation of Nonlinear Ultrasonic Transmission Measurements of Thin-Bonded Interfaces. , 2006, , 403-419.		5
84	Values of mineral modulus of clay. , 2005, , .		2
85	Investigating ultra-thin lubricant layers using resonant friction force microscopy. Tribology International, 2005, 38, 533-541.	5.9	33
86	Imaging and measurement of elasticity and friction using the TRmode. Journal Physics D: Applied Physics, 2005, 38, R269-R282.	2.8	81
87	Atomic Force Microscopy at Ultrasonic Frequencies. , 2005, , 1-11.		6
88	Imaging using lateral bending modes of atomic force microscope cantilevers. Applied Physics Letters, 2004, 85, 6398-6400.	3.3	30
89	Magnetization density calculation for diffusing spins. Physical Review B, 2004, 69, .	3.2	3
90	Ultrasonic Modes in Atomic Force Microscopy. Acoustical Imaging, 2004, , 699-706.	0.2	4

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91	Atomic Force Microscopy with Lateral Modulation. <i>Nanoscience and Technology</i> , 2004, , 75-115.	1.5	6
92	Ultrasonic Absorption Measurement. <i>Springer Series in Materials Science</i> , 2004, , 234-245.	0.6	0
93	Nanoscale imaging of elastic and piezoelectric properties of nanocrystalline lead calcium titanate. <i>Surface Science</i> , 2003, 532-535, 450-455.	1.9	22
94	Imaging of flexural and torsional resonance modes of atomic force microscopy cantilevers using optical interferometry. <i>Surface Science</i> , 2003, 532-535, 1152-1158.	1.9	56
95	On the nanoscale measurement of friction using atomic-force microscope cantilever torsional resonances. <i>Applied Physics Letters</i> , 2003, 82, 2604-2606.	3.3	104
96	Imaging of Ferroelectric Domains by Atomic Force Acoustic Microscopy. , 2002, , 253-260.		1
97	<title>Atomic force microscopy at ultrasonic frequencies</title> . , 2002, 4703, 53.		1
98	High-resolution characterization of piezoelectric ceramics by ultrasonic scanning force microscopy techniques. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 2621-2635.	2.8	140
99	Measurement of Young's modulus of clay minerals using atomic force acoustic microscopy. <i>Geophysical Research Letters</i> , 2002, 29, 13-1-13-4.	4.0	148
100	Quantitative Contact Spectroscopy by Atomic-Force Acoustic Microscopy. , 2002, , 179-186.		0
101	Imaging and measurement of local mechanical material properties by atomic force acoustic microscopy. <i>Surface and Interface Analysis</i> , 2002, 33, 65-70.	1.8	208
102	Evaluation of the contact resonance frequencies in atomic force microscopy as a method for surface characterisation (invited). <i>Ultrasonics</i> , 2002, 40, 49-54.	3.9	49
103	Laser ultrasonic absorption measurement in fatigue-damaged materials. <i>Ultrasonics</i> , 2002, 40, 797-801.	3.9	15
104	Imaging of the Ferroelectric Domains Pattern in the Ultrasonic Piezo-Mode. <i>Acoustical Imaging</i> , 2002, , 191-198.	0.2	3
105	Acoustic Microscopic Analysis of the Biological Structure of Insect Wing Membranes with Emphasis on their Waxy Surface. <i>Annals of Biomedical Engineering</i> , 2001, 29, 1054-1058.	2.5	43
106	NDT of Electronic Components and Structural Ceramics. , 2001, , 5984-5986.		0
107	A Method of Evaluating Local Elasticity and Adhesion Energy from the Nonlinear Response of AFM Cantilever Vibrations.. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 2001, 44, 396-405.	0.4	34
108	Piezoelectric composite transducers, ultrasonic materials characterization, and the ROSETTA Comet mission. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	0

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109	Surface acoustic waves go under the microscope. <i>Physics World</i> , 2001, 14, 25-26.	0.0	1
110	Ultrasonic radiation in dynamic force microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2001, 72, S87-S92.	2.3	3
111	Measurements of elastic properties of ultra-thin diamond-like carbon coatings using atomic force acoustic microscopy. <i>Thin Solid Films</i> , 2001, 392, 75-84.	1.8	111
112	A New Approach for Restoration of Eddy Current Images. <i>Journal of Nondestructive Evaluation</i> , 2001, 20, 61-72.	2.4	7
113	Measurement of Elastic Properties Related to the R-Curve-Behavior of Ceramics(Ceramics & Rocks 1). Proceedings of the Asian Pacific Conference on Fracture and Strength and International Conference on Advanced Technology in Experimental Mechanics, 2001, 1.01.203, 517-522.	0.0	0
114	ATOMIC FORCE MICROSCOPY AT ULTRASONIC FREQUENCIES. Proceedings of the Asian Pacific Conference on Fracture and Strength and International Conference on Advanced Technology in Experimental Mechanics, 2001, 1.01.203, 41.	0.0	0
115	Quality assessment of bond interfaces by nonlinear ultrasonic transmission. AIP Conference Proceedings, 2000, , .	0.4	9
116	CASSE " The ROSETTA Lander Comet Acoustic Surface Sounding Experiment " status of some aspects, the technical realisation and laboratory simulations. <i>Planetary and Space Science</i> , 2000, 48, 385-399.	1.7	12
117	Assessment of the adhesion quality of fusion-welded silicon wafers with nonlinear ultrasound. <i>Ultrasonics</i> , 2000, 38, 316-321.	3.9	40
118	Quantitative determination of contact stiffness using atomic force acoustic microscopy. <i>Ultrasonics</i> , 2000, 38, 430-437.	3.9	273
119	Measurement of Young's modulus of nanocrystalline ferrites with spinel structures by atomic force acoustic microscopy. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 1275-1284.	4.0	78
120	Modeling of the ablation source in laser-ultrasonics. AIP Conference Proceedings, 2000, , .	0.4	3
121	Nondestructive characterization of PZT materials for sensor and actuator applications. AIP Conference Proceedings, 2000, , .	0.4	1
122	Extension of frequency spectrum methods for phase velocity measurements in ultrasonic testing. <i>Review of Scientific Instruments</i> , 2000, 71, 3470-3473.	1.3	3
123	Detection of laser excited surface acoustic waves by infrared radiation. <i>Review of Scientific Instruments</i> , 2000, 71, 1429-1432.	1.3	2
124	Modeling of Graded 1-3 Composite Piezoelectric Transducers. <i>Materials Science Forum</i> , 1999, 308-311, 521-526.	0.3	2
125	X-ray computed laminography: an approach of computed tomography for applications with limited access. <i>Nuclear Engineering and Design</i> , 1999, 190, 141-147.	1.7	85
126	Probing linear and non-linear tip-sample interaction forces by atomic force acoustic microscopy. <i>Surface and Interface Analysis</i> , 1999, 27, 386-391.	1.8	47

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127	On the contrast in eddy current microscopy using atomic force microscopes. Surface and Interface Analysis, 1999, 27, 474-481.	1.8	14
128	Lateral force microscopy using acoustic friction force microscopy. Surface and Interface Analysis, 1999, 27, 578-587.	1.8	75
129	Measurement of mechanical properties of nanoscaled ferrites using atomic force microscopy at ultrasonic frequencies. Scripta Materialia, 1999, 12, 779-782.	0.5	19
130	Measurement of elastic and anelastic properties of nanocrystalline metals. Scripta Materialia, 1999, 12, 811-816.	0.5	19
131	<title>Detection of laser-generated Rayleigh waves by recording their IR radiation</title>. , 1999, 3688, 394.		0
132	Quantitative Contact Spectroscopy and Imaging by Atomic-Force Acoustic Microscopy. Materials Research Society Symposia Proceedings, 1999, 591, 176.	0.1	3
133	Analysis of the high-frequency response of atomic force microscope cantilevers. Applied Physics A: Materials Science and Processing, 1998, 66, S277-S282.	2.3	149
134	High-resolution materials characterization by conventional and near-field acoustic microscopy. Ultrasonics, 1998, 36, 491-498.	3.9	12
135	Multilayer coatings on CFC composites for high-temperature applications. Surface and Coatings Technology, 1998, 100-101, 329-332.	4.8	25
136	Active Friction Control Using Ultrasonic Vibration. , 1998, , 463-469.		21
137	Novel optical method for detection of laser-excited surface acoustic waves. Quantum Electronics, 1997, 27, 545-549.	1.0	0
138	Theoretical description of the transfer of vibrations from a sample to the cantilever of an atomic force microscope. Nanotechnology, 1997, 8, 57-66.	2.6	70
139	Nanomechanical surface characterization by atomic force acoustic microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1997, 15, 1506.	1.6	51
140	Non-linear acoustics and adhesion measurements of interfaces: techniques for the inspection of bonded structures. , 1997, , .		1
141	Local elasticity and lubrication measurements using atomic force and friction force microscopy at ultrasonic frequencies. IEEE Transactions on Magnetics, 1997, 33, 4077-4079.	2.1	53
142	High-frequency response of atomic-force microscope cantilevers. Journal of Applied Physics, 1997, 82, 966-979.	2.5	179
143	Surface analysis by nondestructive testing techniques. Fresenius' Journal of Analytical Chemistry, 1997, 358, 3-9.	1.5	2
144	Materials Characterization Using High-Frequency Atomic Force Microscopy and Friction Force Microscopy. , 1997, , 1391-1398.		2

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145	Friction Force Microscopy at Ultrasonic Frequencies. , 1997, , 225-231.		4
146	Vibrations of free and surface-coupled atomic force microscope cantilevers: Theory and experiment. Review of Scientific Instruments, 1996, 67, 3281-3293.	1.3	653
147	Near-Field Acoustic Microscopy. Europhysics News, 1996, 27, 93-96.	0.3	8
148	<title>Remote control by laser excitation and IR detector of surface acoustic waves</title>. , 1996, 2789, 235.		0
149	Nonlinear Acoustic Response in thin Oxide Layers on Fused Silica. Materials Research Society Symposia Proceedings, 1996, 436, 245.	0.1	0
150	Calculation and measurement of the ultrasonic signals generated by ablating material with a Q-switched pulse laser. Applied Surface Science, 1996, 96-98, 71-75.	6.1	13
151	Determination of the Elastic Behaviour of Carbon-Reinforced Carbon Materials Using Laser-Ultrasound and Theoretical Modeling. Materials Science Forum, 1996, 210-213, 227-234.	0.3	2
152	Measurement of Adhesion Strength Using Nonlinear Acoustics. Materials Science Forum, 1996, 210-213, 783-790.	0.3	10
153	Computed laminography for materials testing. Applied Physics Letters, 1996, 68, 3500-3502.	3.3	52
154	Nanoscale Imaging of Mechanical Properties by Ultrasonic Force Microscopy (UFM). Acoustical Imaging, 1996, , 665-668.	0.2	13
155	Acoustic Microscopy with Resolution in the Nm-Range. Acoustical Imaging, 1996, , 669-676.	0.2	10
156	Measurement of Adhesion Strength of Bonds Using Nonlinear Acoustics. , 1996, , 1321-1328.		16
157	Calculation and measurement of the ultrasonic signals generated by ablating material with a Q-switched pulse laser. , 1996, , 71-75.		1
158	Self-tracking ultrasonic inspection. Industrial Robot, 1995, 22, 25-27.	2.1	2
159	The atomic force microscope as a near-field probe for ultrasound. Thin Solid Films, 1995, 264, 165-168.	1.8	8
160	Measurement of elastic impedance with high spatial resolution using acoustic microscopy. Applied Physics Letters, 1995, 67, 745-747.	3.3	37
161	Atomic force microscopy at ultrasonic frequencies. , 1994, , .		4
162	Atomic force microscopy at MHz frequencies. Annalen Der Physik, 1994, 506, 589-598.	2.4	35

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163	Acoustic microscopy by atomic force microscopy. Applied Physics Letters, 1994, 64, 1493-1495.	3.3	331
164	Measurement of internal friction in polycrystalline materials using laser-generated ultrasound. Journal of Alloys and Compounds, 1994, 211-212, 636-639.	5.5	5
165	Materials characterization at high temperatures using laser ultrasound. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 168, 87-92.	5.6	31
166	Observation of Microcrack Damage in Al ₂ O ₃ -Ceramics by Scanning Acoustic Microscopy and Small Angle X-Ray Scattering. Acoustical Imaging, 1992, , 691-696.	0.2	2
167	Volume Acquisition and Visualization of High-Frequency Ultrasound Data. Acoustical Imaging, 1992, , 553-557.	0.2	4
168	Nondestructive Testing of Ceramics by Computed Tomography and High-Frequency Ultrasonics. , 1992, , 880-887.		0
169	Recent progress in high-frequency ultrasonics in non-destructive testing and acoustic microscopy. Nuclear Engineering and Design, 1991, 128, 83-89.	1.7	1
170	Non-Destructive Evaluation of Engineering Ceramics by High-Frequency Acoustic Techniques. Acoustical Imaging, 1991, , 189-195.	0.2	9
171	Nondestructive Testing of Ceramic Engineering Components by X-Ray, Ultrasonic and Other Techniques. , 1991, , 224-242.		0
172	Nondestructive evaluation of elastic parameters of sintered iron powder compacts. Journal of Materials Science, 1990, 25, 1397-1402.	3.7	76
173	Experimental Study of Laser-Generated Shear Waves Using Interferometry. Research in Nondestructive Evaluation, 1990, 2, 143-155.	1.1	17
174	Bandwidth of inhomogeneously polarized PVDF-films and their use in the design of efficient ultrasonic transducers. Ferroelectrics, 1989, 93, 251-257.	0.6	10
175	Observation of stable crack growth in Al ₂ O ₃ ceramics using a scanning acoustic microscope. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 122, 15-19.	5.6	14
176	Efficient generation of acoustic pressure waves by short laser pulses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 122, 37-41.	5.6	19
177	A Quantitative Theory of Laser-Generated Ultrasound. , 1989, , 489-496.		20
178	Non-contact and Nondestructive Evaluation of Grain-size in Thin Metal Sheets. , 1989, , 337-344.		2
179	MEASUREMENTS OF THE ELASTIC CONSTANTS, THE SPECIFIC HEAT AND THE ENTROPY OF GRAIN BOUNDARIES BY MEANS OF ULTRA-FINE GRAINED MATERIALS. Journal De Physique Colloque, 1988, 49, C5-769-C5-779.	0.2	34
180	Interferometric Detection of Ultrasound at Rough Surfaces Using Optical Phase Conjugation. Springer Series in Optical Sciences, 1988, , 275-276.	0.7	0

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181	Nondestructive Evaluation of Ceramic and Metallic Components by Photoacoustic Microscopy. Springer Series in Optical Sciences, 1988, , 408-411.	0.7	0
182	Interferometric detection of ultrasound at rough surfaces using optical phase conjugation. Applied Physics Letters, 1987, 50, 1569-1571.	3.3	71
183	Crack depth estimation by photoacoustic microscopy. European Physical Journal B, 1986, 64, 31-34.	1.5	8
184	Efficient generation of surface acoustic waves by thermoelasticity. Applied Physics Letters, 1985, 47, 672-674.	3.3	41
185	FREQUENCY SPECTRUM OF LASER-GENERATED ULTRASONIC WAVES. Journal De Physique Colloque, 1983, 44, C6-61-C6-65.	0.2	3
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