

Timothy G Leighton

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3185187/publications.pdf>

Version: 2024-02-01

197
papers

5,808
citations

70961

41
h-index

106150

65
g-index

206
all docs

206
docs citations

206
times ranked

3699
citing authors

#	ARTICLE	IF	CITATIONS
1	A proof-of-concept study of the removal of early and late phase biofilm from skin wound models using a liquid acoustic stream. <i>International Wound Journal</i> , 2022, , .	1.3	1
2	Assuring the integrity of offshore carbon dioxide storage. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 166, 112670.	8.2	8
3	Improving livestock feed safety and infection prevention: Removal of bacterial contaminants from hay using cold water, bubbles and ultrasound. <i>Ultrasonics Sonochemistry</i> , 2021, 71, 105372.	3.8	6
4	Towards improved monitoring of offshore carbon storage: A real-world field experiment detecting a controlled sub-seafloor CO ₂ release. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103237.	2.3	39
5	Contributions to Dynamic Behaviour of Materials Professor John Edwin Field, FRS 1936–2020. <i>Journal of Dynamic Behavior of Materials</i> , 2021, 7, 353-382.	1.1	1
6	Passive acoustic localisation of undersea gas seeps using beamforming. <i>International Journal of Greenhouse Gas Control</i> , 2021, 108, 103316.	2.3	10
7	Acoustic and optical determination of bubble size distributions – Quantification of seabed gas emissions. <i>International Journal of Greenhouse Gas Control</i> , 2021, 108, 103313.	2.3	22
8	The Possibilities of Using Ultrasonically Activated Streams to Reduce the Risk of Foodborne Infection from Salad. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 1616-1630.	0.7	5
9	Passive Acoustic Localization of A Natural CO ₂ Seep - Implications for Carbon Capture and Storage. , 2021, , .		0
10	John Edwin Field. 20 September 1936–21 October 2020. <i>Biographical Memoirs of Fellows of the Royal Society</i> , 2021, 71, 145-170.	0.1	0
11	Time-lapse imaging of CO ₂ migration within near-surface sediments during a controlled sub-seabed release experiment. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103363.	2.3	22
12	Collective behaviour of the European minnow (<i>Phoxinus phoxinus</i>) is influenced by signals of differing acoustic complexity. <i>Behavioural Processes</i> , 2021, 189, 104416.	0.5	7
13	Acoustic propagation in gassy intertidal marine sediments: An experimental study. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 2705-2716.	0.5	5
14	The response of common carp (<i>Cyprinus carpio</i>) to insonified bubble curtains. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 3874-3888.	0.5	5
15	Use of acoustics to enhance the efficiency of physical screens designed to protect downstream moving European eel (<i>Anguilla anguilla</i>). <i>Fisheries Management and Ecology</i> , 2020, 27, 1-9.	1.0	15
16	Passive acoustic monitoring of seabed gas seeps - application of beamforming techniques. <i>Proceedings of Meetings on Acoustics</i> , 2020, , .	0.3	0
17	Industrial lubricant removal using an ultrasonically activated water stream, with potential application for Coronavirus decontamination and infection prevention for SARS-CoV-2. <i>Transactions of the Institute of Metal Finishing</i> , 2020, 98, 258-270.	0.6	7
18	A cold water, ultrasonically activated stream efficiently removes proteins and prion-associated amyloid from surgical stainless steel. <i>Journal of Hospital Infection</i> , 2020, 106, 649-656.	1.4	7

#	ARTICLE	IF	CITATIONS
19	From research to engagement to translation: words are cheap. Part 2 – a case study. Transactions of the Institute of Metal Finishing, 2020, 98, 217-220.	0.6	1
20	Influence of acoustics on the collective behaviour of a shoaling freshwater fish. Freshwater Biology, 2020, 65, 2186-2195.	1.2	8
21	From research to engagement to translation: words are cheap. Part 1 – research funding and its consequences. Transactions of the Institute of Metal Finishing, 2020, 98, 161-164.	0.6	2
22	Broadband Acoustic Inversion for Gas Flux Quantification – Application to a Methane Plume at Scanner Pockmark, Central North Sea. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016360.	1.0	24
23	Group behavior and tolerance of Eurasian minnow (<i>Phoxinus phoxinus</i>) in response to tones of differing pulse repetition rate. Journal of the Acoustical Society of America, 2020, 147, 1709-1718.	0.5	16
24	The response of anguilliform fish to underwater sound under an experimental setting. River Research and Applications, 2020, 36, 441-451.	0.7	9
25	Ultrasound in air. Physics Today, 2020, 73, 38-43.	0.3	1
26	Three-dimensional finite element simulation of acoustic propagation in spiral bubble net of humpback whale. Journal of the Acoustical Society of America, 2019, 146, 1982-1995.	0.5	7
27	Response of seaward-migrating European eel (<i>Anguilla anguilla</i>) to an infrasound deterrent. Ecological Engineering, 2019, 127, 480-486.	1.6	25
28	A noise impact assessment model for passive acoustic measurements of seabed gas fluxes. Ocean Engineering, 2019, 183, 294-304.	1.9	28
29	Analogies in contextualizing human response to airborne ultrasound and fish response to acoustic noise and deterrents. Proceedings of Meetings on Acoustics, 2019, , .	0.3	5
30	Natural seabed gas leakage – variability imposed by tidal cycles. , 2019, , .		2
31	A Model for Variations of Sound Speed and Attenuation from Seabed Gas Emissions. , 2019, , .		2
32	Group behavioral responses of juvenile common carp (<i>Cyprinus carpio</i>) to pulsed tonal stimuli in the presence of masking noise. Proceedings of Meetings on Acoustics, 2019, , .	0.3	2
33	Underwater radiated noise from hydrofoils in coastal water. Journal of the Acoustical Society of America, 2019, 146, 3552-3561.	0.5	6
34	Acoustic radiation force on a parametrically distorted bubble. Journal of the Acoustical Society of America, 2018, 143, 296-305.	0.5	19
35	Frequency bands for ultrasound, suitable for the consideration of its health effects. Journal of the Acoustical Society of America, 2018, 144, 2490-2500.	0.5	12
36	Ultrasound in air – Guidelines, applications, public exposures, and claims of attacks in Cuba and China. Journal of the Acoustical Society of America, 2018, 144, 2473-2489.	0.5	10

#	ARTICLE	IF	CITATIONS
37	Public exposure to ultrasound and very high-frequency sound in air. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 2554-2564.	0.5	20
38	Effects of very high-frequency sound and ultrasound on humans. Part II: A double-blind randomized provocation study of inaudible 20-kHz ultrasound. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 2521-2531.	0.5	23
39	Effects of very high-frequency sound and ultrasound on humans. Part I: Adverse symptoms after exposure to audible very-high frequency sound. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 2511-2520.	0.5	29
40	Measurements of ultrasonic deterrents and an acoustically branded hairdryer: Ambiguities in guideline compliance. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 2565-2574.	0.5	6
41	Asymmetric transfer of CO ₂ across a broken sea surface. <i>Scientific Reports</i> , 2018, 8, 8301.	1.6	17
42	The acoustic bubble: Ocean, cetacean and extraterrestrial acoustics, and cold water cleaning. <i>Journal of Physics: Conference Series</i> , 2017, 797, 012001.	0.3	9
43	Acoustic wave propagation in gassy porous marine sediments: The rheological and the elastic effects. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 2277-2288.	0.5	17
44	Comment on "Are some people suffering as a result of increasing mass exposure of the public to ultrasound in air?" TM . <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20160828.	1.0	17
45	Review of Offshore CO ₂ Storage Monitoring: Operational and Research Experiences of Meeting Regulatory and Technical Requirements. <i>Energy Procedia</i> , 2017, 114, 5967-5980.	1.8	10
46	Numerical studies of cavitation erosion on an elastic-plastic material caused by shock-induced bubble collapse. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170315.	1.0	20
47	Guest editorial: Acoustic and related waves in extraterrestrial environments. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 1397-1399.	0.5	3
48	Modelling acoustic scattering, sound speed, and attenuation in gassy soft marine sediments. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 274-282.	0.5	30
49	Extraterrestrial sound for planetaria: A pedagogical study. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 1469-1480.	0.5	3
50	Sonar equations for planetary exploration. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 1400-1419.	0.5	6
51	Bubbles versus biofilms: a novel method for the removal of marine biofilms attached on antifouling coatings using an ultrasonically activated water stream. <i>Surface Topography: Metrology and Properties</i> , 2016, 4, 034009.	0.9	15
52	Anthropogenic sources of underwater sound can modify how sediment-dwelling invertebrates mediate ecosystem properties. <i>Scientific Reports</i> , 2016, 6, 20540.	1.6	85
53	A comparison of ultrasonically activated water stream and ultrasonic bath immersion cleaning of railhead leaf-film contaminant. <i>Surface Topography: Metrology and Properties</i> , 2016, 4, 034003.	0.9	5
54	Does Masking Matter? Shipping Noise and Fish Vocalizations. <i>Advances in Experimental Medicine and Biology</i> , 2016, 875, 747-753.	0.8	6

#	ARTICLE	IF	CITATIONS
55	Are some people suffering as a result of increasing mass exposure of the public to ultrasound in air?. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150624.	1.0	53
56	An activated fluid stream – New techniques for cold water cleaning. Ultrasonics Sonochemistry, 2016, 29, 612-618.	3.8	18
57	The acoustic bubble: Oceanic bubble acoustics and ultrasonic cleaning. Proceedings of Meetings on Acoustics, 2015, , .	0.3	13
58	Dolphin-Inspired Target Detection for Sonar and Radar. Archives of Acoustics, 2015, 39, 319-332.	0.9	9
59	Passive acoustic quantification of gas fluxes during controlled gas release experiments. International Journal of Greenhouse Gas Control, 2015, 38, 64-79.	2.3	55
60	Electrochemical –bubble swarm™ enhancement of ultrasonic surface cleaning. Physical Chemistry Chemical Physics, 2015, 17, 21709-21715.	1.3	18
61	Removal of Dental Biofilms with an Ultrasonically Activated Water Stream. Journal of Dental Research, 2015, 94, 1303-1309.	2.5	43
62	Cold water cleaning of brain proteins, biofilm and bone – harnessing an ultrasonically activated stream. Physical Chemistry Chemical Physics, 2015, 17, 20574-20579.	1.3	25
63	Investigation of a method for real time quantification of gas bubbles in pipelines. Journal of the Acoustical Society of America, 2014, 136, 502-513.	0.5	6
64	Detection and impacts of leakage from sub-seafloor deep geological carbon dioxide storage. Nature Climate Change, 2014, 4, 1011-1016.	8.1	159
65	An electrochemical and high-speed imaging study of micropore decontamination by acoustic bubble entrapment. Physical Chemistry Chemical Physics, 2014, 16, 4982.	1.3	22
66	Radar clutter suppression and target discrimination using twin inverted pulses. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20130512.	1.0	18
67	Acoustic attenuation, phase and group velocities in liquid-filled pipes III: Nonaxisymmetric propagation and circumferential modes in lossless conditions. Journal of the Acoustical Society of America, 2013, 133, 1225-1236.	0.5	15
68	Prediction of far-field acoustic emissions from cavitation clouds during shock wave lithotripsy for development of a clinical device. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20120538.	1.0	13
69	Use of dolphin-like pulses to enhance target discrimination and reduce clutter. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
70	A new approach to ultrasonic cleaning. Proceedings of Meetings on Acoustics, 2013, , .	0.3	5
71	Demonstration comparing sound wave attenuation inside pipes containing bubbly water and water droplet fog. Journal of the Acoustical Society of America, 2012, 131, 2413-2421.	0.5	11
72	The use of extra-terrestrial oceans to test ocean acoustics students. Journal of the Acoustical Society of America, 2012, 131, 2551-2555.	0.5	4

#	ARTICLE	IF	CITATIONS
73	How can humans, in air, hear sound generated underwater (and can goldfish hear their owners) Tj ETQq1 1 0.784314 rgBT /Overlock 10 0.5 23		
74	Quantification of undersea gas leaks from carbon capture and storage facilities, from pipelines and from methane seeps, by their acoustic emissions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 485-510.	1.0	74
75	The use of acoustic inversion to estimate the bubble size distribution in pipelines. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 2461-2484.	1.0	18
76	Do dolphins benefit from nonlinear mathematics when processing their sonar returns?. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 3517-3532.	1.0	15
77	Pattern formation on the surface of a bubble driven by an acoustic field. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 57-75.	1.0	35
78	Use of clicks resembling those of the Atlantic bottlenose dolphin (<i>Tursiops truncatus</i>) to improve target discrimination in bubbly water with biased pulse summation sonar. IET Radar, Sonar and Navigation, 2012, 6, 510-515.	0.9	11
79	Editorial: Biologically-inspired radar and sonar systems. IET Radar, Sonar and Navigation, 2012, 6, 507-509.	0.9	6
80	The Opportunities and Challenges in the Use of Extra-Terrestrial Acoustics in the Exploration of the Oceans of Icy Planetary Bodies. Earth, Moon and Planets, 2012, 109, 91-116.	0.3	6
81	Review of the occurrence of multiple pulse echolocation clicks in recordings from small odontocetes. IET Radar, Sonar and Navigation, 2012, 6, 545-555.	0.9	7
82	Pattern formation on the wall of acoustically driven gas bubble. , 2012, , .		0
83	Multiple observations of cavitation cluster dynamics close to an ultrasonic horn tip. Journal of the Acoustical Society of America, 2011, 130, 3379-3388.	0.5	49
84	Review of scattering and extinction cross-sections, damping factors, and resonance frequencies of a spherical gas bubble. Journal of the Acoustical Society of America, 2011, 130, 3184-3208.	0.5	180
85	A Spar Buoy for High-Frequency Wave Measurements and Detection of Wave Breaking in the Open Ocean. Journal of Atmospheric and Oceanic Technology, 2011, 28, 590-605.	0.5	27
86	A passive acoustic monitor of treatment effectiveness during extracorporeal lithotripsy. Journal of Physics: Conference Series, 2011, 279, 012021.	0.3	0
87	Investigation of noninertial cavitation produced by an ultrasonic horn. Journal of the Acoustical Society of America, 2011, 130, 3297-3308.	0.5	39
88	The collapse of single bubbles and approximation of the far-field acoustic emissions for cavitation induced by shock wave lithotripsy. Journal of Fluid Mechanics, 2011, 677, 305-341.	1.4	66
89	INNOVATION TO IMPACT IN A TIME OF RECESSION. Journal of Computational Acoustics, 2011, 19, 1-25.	1.0	4
90	The effect of nearby bubbles on array gain. Journal of the Acoustical Society of America, 2011, 130, 3812-3826.	0.5	1

#	ARTICLE	IF	CITATIONS
91	The inertial terms in equations of motion for bubbles in tubular vessels or between plates. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 3333-3338.	0.5	32
92	Clutter suppression and classification using twin inverted pulse sonar in ship wakes. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 3431-3437.	0.5	16
93	Acoustic attenuation, phase and group velocities in liquid-filled pipes II: Simulation for spallation neutron sources and planetary exploration. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 695-706.	0.5	23
94	Real-time on-line ultrasonic monitoring for bubbles in ceramic slip TM in pottery pipelines. <i>Ultrasonics</i> , 2010, 50, 60-67.	2.1	14
95	A Study of Bubble Activity Generated in Ex Vivo Tissue by High Intensity Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 1327-1344.	0.7	90
96	Clutter suppression and classification using twin inverted pulse sonar (TWIPS). <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 3453-3478.	1.0	22
97	Lithotripsy. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, 317-342.	1.0	30
98	Acoustic attenuation, phase and group velocities in liquid-filled pipes: Theory, experiment, and examples of water and mercury. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 2610-2624.	0.5	51
99	Cluster Collapse in a Cylindrical Cell: Correlating Multibubble Sonoluminescence, Acoustic Pressure, and Erosion. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16416-16425.	1.5	17
100	Absolute calibration of hydrophones immersed in sandy sediment. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 2918.	0.5	4
101	Fluid loading effects for acoustical sensors in the atmospheres of Mars, Venus, Titan, and Jupiter. <i>Journal of the Acoustical Society of America</i> , 2009, 125, EL214.	0.5	10
102	Near resonant bubble acoustic cross-section corrections, including examples from oceanography, volcanology, and biomedical ultrasound. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 2163-2175.	0.5	45
103	Physical Exchanges at the Air-Sea Interface: UK SOLAS Field Measurements. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 629-644.	1.7	52
104	Opto-Isolation of Electrochemical Systems in Cavitation Environments. <i>Analytical Chemistry</i> , 2009, 81, 5064-5069.	3.2	6
105	Supplement to Physical Exchanges at the Air-Sea Interface: UK SOLAS Field Measurements. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, ES9-ES16.	1.7	5
106	The Sound of Music and Voices in Space Part 1: Theory. <i>Acoustics Today</i> , 2009, 5, 17.	1.0	11
107	The Sound of Music and Voices in Space Part 2: Modeling and Simulation. <i>Acoustics Today</i> , 2009, 5, 27-29.	1.0	4
108	3D high-resolution acoustic imaging of the sub-seabed. <i>Applied Acoustics</i> , 2008, 69, 262-271.	1.7	21

#	ARTICLE	IF	CITATIONS
109	Three-dimensional high-resolution acoustic imaging of the sub-seabed. <i>Applied Acoustics</i> , 2008, 69, 412-421.	1.7	23
110	Issues relating to the use of a 61.5dB conversion factor when comparing airborne and underwater anthropogenic noise levels. <i>Applied Acoustics</i> , 2008, 69, 464-471.	1.7	12
111	The problems with acoustics on a small planet. <i>Icarus</i> , 2008, 193, 649-652.	1.1	10
112	Self focusing of acoustically excited Faraday ripples on a bubble wall. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 3210-3216.	0.9	10
113	The Rayleigh-Plesset equation in terms of volume with explicit shear losses. <i>Ultrasonics</i> , 2008, 48, 85-90.	2.1	20
114	The detection by sonar of difficult targets (including centimetre-scale plastic objects and optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	1.7	13
115	A Passive Acoustic Device for Real-Time Monitoring of the Efficacy of Shockwave Lithotripsy Treatment. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1651-1665.	0.7	50
116	Free-Lagrange simulations of the expansion and jetting collapse of air bubbles in water. <i>Journal of Fluid Mechanics</i> , 2008, 598, 1-25.	1.4	72
117	Preliminary mapping of void fractions and sound speeds in gassy marine sediments from subbottom profiles. <i>Journal of the Acoustical Society of America</i> , 2008, 124, EL313-EL320.	0.5	30
118	Hopf Bifurcation in Acoustically Excited Faraday Ripples on a Bubble Wall. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
119	Clinical Studies of Real-Time Monitoring of Lithotripter Performance Using Passive Acoustic Sensors. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	1
120	Empirical angle-dependent Biot and MBA models for acoustic anisotropy in cancellous bone. <i>Physics in Medicine and Biology</i> , 2007, 52, 59-73.	1.6	33
121	Investigation of an anisotropic tortuosity in a Biot model of ultrasonic propagation in cancellous bone. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 568-574.	0.5	61
122	Measurement of the <i>In Situ</i> Compressional Wave Properties of Marine Sediments. <i>IEEE Journal of Oceanic Engineering</i> , 2007, 32, 484-496.	2.1	16
123	Theory for acoustic propagation in marine sediment containing gas bubbles which may pulsate in a non-stationary nonlinear manner. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	15
124	Predictions of the modified Biot-Attenborough model for the dependence of phase velocity on porosity in cancellous bone. <i>Ultrasonics</i> , 2007, 46, 323-330.	2.1	14
125	Electrodeposition of copper in the presence of an acoustically excited gas bubble. <i>Electrochemistry Communications</i> , 2007, 9, 1062-1068.	2.3	30
126	Rapporteur report: Mechanisms and interactions. <i>Progress in Biophysics and Molecular Biology</i> , 2007, 93, 280-294.	1.4	5

#	ARTICLE	IF	CITATIONS
127	What is ultrasound?. Progress in Biophysics and Molecular Biology, 2007, 93, 3-83.	1.4	288
128	The frequency dependence of compressional wave velocity and attenuation coefficient of intertidal marine sediments. Journal of the Acoustical Society of America, 2006, 120, 2526-2537.	0.5	26
129	Localisation of sperm whales using bottom-mounted sensors. Applied Acoustics, 2006, 67, 1074-1090.	1.7	25
130	Mass transfer enhancement produced by laser induced cavitation. Electrochemistry Communications, 2006, 8, 1603-1609.	2.3	13
131	The Design And Implementation Of A Passive Cavitation Detection System For Use With Ex Vivo Tissue. AIP Conference Proceedings, 2006, , .	0.3	4
132	Dynamics of a Tethered Bubble. AIP Conference Proceedings, 2006, , .	0.3	2
133	The study of surface processes under electrochemical control in the presence of inertial cavitation. Wear, 2005, 258, 623-628.	1.5	22
134	Design of a 3D Chirp Sub-bottom Imaging System. Marine Geophysical Researches, 2005, 26, 157-169.	0.5	40
135	Experimental and theoretical characterisation of sonochemical cells. : Part 2: cell disruptors (Ultrasonic horns) and cavity cluster collapse. Physical Chemistry Chemical Physics, 2005, 7, 530.	1.3	41
136	Cavitation, Shock Waves and the Invasive Nature of Sonochemistry. Journal of Physical Chemistry B, 2005, 109, 16997-17005.	1.2	62
137	Shock/bubble interaction near a rigid boundary in shock wave lithotripsy. , 2005, , 1211-1216.		7
138	Nonlinear Bubble Dynamics And The Effects On Propagation Through Near-Surface Bubble Layers. AIP Conference Proceedings, 2004, , .	0.3	7
139	FROM SEAS TO SURGERIES, FROM BABBLING BROOKS TO BABY SCANS: THE ACOUSTICS OF GAS BUBBLES IN LIQUIDS. International Journal of Modern Physics B, 2004, 18, 3267-3314.	1.0	85
140	Study into Correlation between the Ultrasonic Capillary Effect and Sonoluminescence. Journal of Engineering Physics and Thermophysics, 2004, 77, 53-61.	0.2	32
141	Electrochemical measurements of the effects of inertial acoustic cavitation by means of a novel dual microelectrode. Electrochemistry Communications, 2004, 6, 1174-1179.	2.3	30
142	The use of acoustoelectrochemistry to investigate rectified diffusion. Ultrasonics Sonochemistry, 2004, 11, 217-221.	3.8	13
143	Propagation through nonlinear time-dependent bubble clouds and the estimation of bubble populations from measured acoustic characteristics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2004, 460, 2521-2550.	1.0	68
144	Development of a new diagnostic sensor for extra-corporeal shock-wave lithotripsy. Journal of Physics: Conference Series, 2004, 1, 134-139.	0.3	8

#	ARTICLE	IF	CITATIONS
145	New approaches to contrast agent modelling. <i>Journal of Physics: Conference Series</i> , 2004, 1, 91-96.	0.3	5
146	Estimation of critical and viscous frequencies for Biot theory in cancellous bone. <i>Ultrasonics</i> , 2003, 41, 365-368.	2.1	45
147	Electrochemical detection of bubble oscillation. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 65-69.	3.8	26
148	Electrochemical, luminescent and photographic characterisation of cavitation. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 203-208.	3.8	20
149	Viscoelastic inertial absorption in dilute suspensions of irregular particles. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2003, 459, 2153-2167.	1.0	33
150	Cavitation luminescence from flow over a hydrofoil in a cavitation tunnel. <i>Journal of Fluid Mechanics</i> , 2003, 480, 43-60.	1.4	37
151	Experimental and Theoretical Characterization of Sonochemical Cells. Part 1. Cylindrical Reactors and Their Use to Calculate the Speed of Sound in Aqueous Solutions. <i>Journal of Physical Chemistry A</i> , 2003, 107, 306-320.	1.1	48
152	Sound absorption by suspensions of nonspherical particles: Measurements compared with predictions using various particle sizing techniques. <i>Journal of the Acoustical Society of America</i> , 2003, 114, 1841-1850.	0.5	19
153	A 1 kHz resolution frequency study of a variety of sonochemical processes. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4170-4174.	1.3	18
154	Free-Lagrange Simulations of Shock/Bubble Interaction in Shock Wave Lithotripsy. , 2003, , 541-546.		2
155	Cathodic Electrochemical Detection of Sonochemical Radical Products. <i>Analytical Chemistry</i> , 2002, 74, 2584-2590.	3.2	22
156	Electrochemical Detection of Faraday Waves on the Surface of a Gas Bubble. <i>Langmuir</i> , 2002, 18, 2135-2140.	1.6	29
157	The effect of reverberation on the damping of bubbles. <i>Journal of the Acoustical Society of America</i> , 2002, 112, 1366-1376.	0.5	48
158	Chirp sub-bottom profiler source signature design and field testing. <i>Marine Geophysical Researches</i> , 2002, 23, 481-492.	0.5	55
159	Electrochemical evidence of H [•] produced by ultrasound. <i>Chemical Communications</i> , 2001, , 2230-2231.	2.2	27
160	Efficient mass transfer from an acoustically oscillated gas bubble. <i>Chemical Communications</i> , 2001, , 2650-2651.	2.2	24
161	Shock-induced collapse of a cylindrical air cavity in water: a Free-Lagrange simulation. <i>Shock Waves</i> , 2000, 10, 265-276.	1.0	99
162	A method for estimating time-dependent acoustic cross-sections of bubbles and bubble clouds prior to the steady state. <i>Journal of the Acoustical Society of America</i> , 2000, 107, 1922-1929.	0.5	27

#	ARTICLE	IF	CITATIONS
163	The Rayleigh-like collapse of a conical bubble. <i>Journal of the Acoustical Society of America</i> , 2000, 107, 130-142.	0.5	40
164	Ultrasonic propagation in cancellous bone: a new stratified model. <i>Ultrasound in Medicine and Biology</i> , 1999, 25, 811-821.	0.7	128
165	Measurement of viscous sound absorption at 50–150 kHz in a model turbid environment. <i>Journal of the Acoustical Society of America</i> , 1998, 104, 2114-2120.	0.5	18
166	Oceanic bubble population measurements using a buoy-deployed combination frequency technique. <i>IEEE Journal of Oceanic Engineering</i> , 1998, 23, 400-410.	2.1	39
167	The detection and dimension of bubble entrainment and comminution. <i>Journal of the Acoustical Society of America</i> , 1998, 103, 1825-1835.	0.5	19
168	The use of a combination frequency technique to measure the surf zone bubble population. <i>Journal of the Acoustical Society of America</i> , 1997, 101, 1981-1989.	0.5	49
169	The detection of tethered and rising bubbles using multiple acoustic techniques. <i>Journal of the Acoustical Society of America</i> , 1997, 101, 2626-2635.	0.5	41
170	The bactericidal effects of dental ultrasound on <i>Actinobacillus actinomycetemcomitans</i> and <i>Porphyromonas gingivalis</i> . An in vitro investigation. <i>Journal of Clinical Periodontology</i> , 1997, 24, 432-439.	2.3	29
171	Sonoluminescence from the unstable collapse of a conical bubble. <i>Ultrasonics</i> , 1997, 35, 399-405.	2.1	26
172	On the mechanism of subharmonic ultrasound modulation by forcibly oscillating bubbles. [<i>Ultrasonics</i> 33 (1995) 341]. <i>Ultrasonics</i> , 1997, 35, 183.	2.1	0
173	Comparison of the abilities of eight acoustic techniques to detect and size a single bubble. <i>Ultrasonics</i> , 1996, 34, 661-667.	2.1	53
174	High-resolution bubble sizing through detection of the subharmonic response with a two-frequency excitation technique. <i>Journal of the Acoustical Society of America</i> , 1996, 99, 1985-1992.	0.5	46
175	The one-dimensional bubble: an unusual oscillator, with applications to human bioeffects of underwater sound. <i>European Journal of Physics</i> , 1996, 17, 92-92.	0.3	0
176	Bubble population phenomena in acoustic cavitation. <i>Ultrasonics Sonochemistry</i> , 1995, 2, S123-S136.	3.8	221
177	The one-dimensional bubble: an unusual oscillator, with applications to human bioeffects of underwater sound. <i>European Journal of Physics</i> , 1995, 16, 275-281.	0.3	12
178	Development and validation of an air-to-beef food chain model for dioxin-like compounds. <i>Science of the Total Environment</i> , 1994, 156, 39-65.	3.9	61
179	The spatial distribution of cavitation induced acoustic emission, sonoluminescence and cell lysis in the field of a shock wave lithotripter. <i>Physics in Medicine and Biology</i> , 1993, 38, 1545-1560.	1.6	57
180	Bubble Sizing by the Nonlinear Scattering of Two Acoustic Frequencies. , 1993, , 453-466.		3

#	ARTICLE	IF	CITATIONS
181	Acoustic emission and sonoluminescence due to cavitation at the beam focus of an electrohydraulic shock wave lithotripter. <i>Ultrasound in Medicine and Biology</i> , 1992, 18, 267-281.	0.7	94
182	Acoustic bubble sizing by combination of subharmonic emissions with imaging frequency. <i>Ultrasonics</i> , 1991, 29, 319-323.	2.1	58
183	Acoustic and photographic studies of injected bubbles. <i>European Journal of Physics</i> , 1991, 12, 77-85.	0.3	52
184	Primary Bjerknes forces. <i>European Journal of Physics</i> , 1990, 11, 47-50.	0.3	153
185	A search for sonoluminescence in vivo in the human cheek. <i>Ultrasonics</i> , 1990, 28, 181-184.	2.1	16
186	Studies of non-linear bubble oscillations in a simulated acoustic field. <i>European Journal of Physics</i> , 1990, 11, 352-358.	0.3	14
187	Studies of the cavitation effects of clinical ultrasound by sonoluminescence: 3. Cavitation from pulses a few microseconds in length. <i>Physics in Medicine and Biology</i> , 1989, 34, 1139-1151.	1.6	15
188	Studies of the cavitation effects of clinical ultrasound by sonoluminescence: 4. The effect of therapeutic ultrasound on cells in monolayer culture in a standing wave field. <i>Physics in Medicine and Biology</i> , 1989, 34, 1553-1560.	1.6	27
189	Transient excitation of insonated bubbles. <i>Ultrasonics</i> , 1989, 27, 50-53.	2.1	32
190	High-speed photography of transient excitation. <i>Ultrasonics</i> , 1989, 27, 370-373.	2.1	26
191	Studies of the cavitation effects of clinical ultrasound by sonoluminescence: 2. Thresholds for sonoluminescence from a therapeutic ultrasound beam and the effect of temperature and duty cycle. <i>Physics in Medicine and Biology</i> , 1988, 33, 1249-1260.	1.6	47
192	Studies of the cavitation effects of clinical ultrasound by sonoluminescence: 1. Correlation of sonoluminescence with the standing wave pattern in an acoustic field produced by a therapeutic unit. <i>Physics in Medicine and Biology</i> , 1988, 33, 1239-1248.	1.6	52
193	The frequency analysis of transients. <i>European Journal of Physics</i> , 1988, 9, 69-70.	0.3	3
194	An experimental study of the sound emitted from gas bubbles in a liquid. <i>European Journal of Physics</i> , 1987, 8, 98-104.	0.3	94
195	Bubble acoustics: what can we learn from cetaceans about contrast enhancement?. , 0, , .		4
196	An introduction to acoustic cavitation. , 0, , .		7
197	Public Exposure to Airborne Ultrasound and Very High Frequency Sound. <i>Acoustics Today</i> , 0, 16, 17.	1.0	3