Timothy G Leighton

List of Publications by Year
in descending order

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	What is ultrasound?. Progress in Biophysics and Molecular Biology, 2007, 93, 3-83.	1.4	288
2	Bubble population phenomena in acoustic cavitation. Ultrasonics Sonochemistry, 1995, 2, S123-S136.	3.8	221
3	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
4	Detection and impacts of leakage from sub-seafloor deep geological carbon dioxide storage. Nature Climate Change, 2014, 4, 1011-1016.	8.1	159
5	Primary Bjerknes forces. European Journal of Physics, 1990, 11, 47-50.	0.3	153
6	Ultrasonic propagation in cancellous bone: a new stratified model. Ultrasound in Medicine and Biology, 1999, 25, 811-821.	0.7	128
7	Shock-induced collapse of a cylindrical air cavity in water: a Free-Lagrange simulation. Shock Waves, 2000, 10, 265-276.	1.0	99
8	An experimental study of the sound emitted from gas bubbles in a liquid. European Journal of Physics, 1987, 8, 98-104.	0.3	94
9	Acoustic emission and sonoluminescence due to cavitation at the beam focus of an electrohydraulic shock wave lithotripter. Ultrasound in Medicine and Biology, 1992, 18, 267-281.	0.7	94
10	A Study of Bubble Activity Generated in Ex Vivo Tissue by High Intensity Focused Ultrasound. Ultrasound in Medicine and Biology, 2010, 36, 1327-1344.	0.7	90
11	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
12	Anthropogenic sources of underwater sound can modify how sediment-dwelling invertebrates mediate ecosystem properties. Scientific Reports, 2016, 6, 20540.	1.6	85
13	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
14	Free-Lagrange simulations of the expansion and jetting collapse of air bubbles in water. Journal of Fluid Mechanics, 2008, 598, 1-25.	1.4	72
15	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
16	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
17	Cavitation, Shock Waves and the Invasive Nature of Sonoelectrochemistry. Journal of Physical Chemistry B, 2005, 109, 16997-17005.	1.2	62
18	Development and validation of an air-to-beef food chain model for dioxin-like compounds. Science of the Total Environment, 1994, 156, 39-65.	3.9	61

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19	Investigation of an anisotropic tortuosity in a Biot model of ultrasonic propagation in cancellous bone. Journal of the Acoustical Society of America, 2007, 121, 568-574.	0.5	61
20	Acoustic bubble sizing by combination of subharmonic emissions with imaging frequency. Ultrasonics, 1991, 29, 319-323.	2.1	58
21	The spatial distribution of cavitation induced acoustic emission, sonoluminescence and cell lysis in the field of a shock wave lithotripter. Physics in Medicine and Biology, 1993, 38, 1545-1560.	1.6	57
22	Chirp sub-bottom profiler source signature design and field testing. Marine Geophysical Researches, 2002, 23, 481-492.	0.5	55
23	Passive acoustic quantification of gas fluxes during controlled gas release experiments. International Journal of Greenhouse Gas Control, 2015, 38, 64-79.	2.3	55
24	Comparison of the abilities of eight acoustic techniques to detect and size a single bubble. Ultrasonics, 1996, 34, 661-667.	2.1	53
25	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
26	Studies of the cavitational effects of clinical ultrasound by sonoluminescence: 1. Correlation of sonoluminescence with the standing wave pattern in an acoustic field produced by a therapeutic unit. Physics in Medicine and Biology, 1988, 33, 1239-1248.	1.6	52
27	Acoustic and photographic studies of injected bubbles. European Journal of Physics, 1991, 12, 77-85.	0.3	52
28	Physical Exchanges at the Airâ€“Sea Interface: UKâ€“SOLAS Field Measurements. Bulletin of the American Meteorological Society, 2009, 90, 629-644.	1.7	52
29	Acoustic attenuation, phase and group velocities in liquid-filled pipes: Theory, experiment, and examples of water and mercury. Journal of the Acoustical Society of America, 2010, 128, 2610-2624.	0.5	51
30	A Passive Acoustic Device for Real-Time Monitoring of the Efficacy of Shockwave Lithotripsy Treatment. Ultrasound in Medicine and Biology, 2008, 34, 1651-1665.	0.7	50
31	The use of a combination frequency technique to measure the surf zone bubble population. Journal of the Acoustical Society of America, 1997, 101, 1981-1989.	0.5	49
32	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
33	The effect of reverberation on the damping of bubbles. Journal of the Acoustical Society of America, 2002, 112, 1366-1376.	0.5	48
34	Experimental and Theoretical Characterization of Sonochemical Cells. Part 1. Cylindrical Reactors and Their Use to Calculate the Speed of Sound in Aqueous Solutions. Journal of Physical Chemistry A, 2003, 107, 306-320.	1.1	48
35	Studies of the cavitational effects of clinical ultrasound by sonoluminescence: 2. Thresholds for sonoluminescence from a therapeutic ultrasound beam and the effect of temperature and duty cycle. Physics in Medicine and Biology, 1988, 33, 1249-1260.	1.6	47
36	Highâ€resolution bubble sizing through detection of the subharmonic response with a twoâ€frequency excitation technique. Journal of the Acoustical Society of America, 1996, 99, 1985-1992.	0.5	46

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37	Estimation of critical and viscous frequencies for Biot theory in cancellous bone. Ultrasonics, 2003, 41, 365-368.	2.1	45
38	Near resonant bubble acoustic cross-section corrections, including examples from oceanography, volcanology, and biomedical ultrasound. Journal of the Acoustical Society of America, 2009, 126, 2163-2175.	0.5	45
39	Removal of Dental Biofilms with an Ultrasonically Activated Water Stream. Journal of Dental Research, 2015, 94, 1303-1309.	2.5	43
40	The detection of tethered and rising bubbles using multiple acoustic techniques. Journal of the Acoustical Society of America, 1997, 101, 2626-2635.	0.5	41
41	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
42	The Rayleigh-like collapse of a conical bubble. Journal of the Acoustical Society of America, 2000, 107, 130-142.	0.5	40
43	Design of a 3D Chirp Sub-bottom Imaging System. Marine Geophysical Researches, 2005, 26, 157-169.	0.5	40
44	Oceanic bubble population measurements using a buoy-deployed combination frequency technique. IEEE Journal of Oceanic Engineering, 1998, 23, 400-410.	2.1	39
45	Investigation of noninertial cavitation produced by an ultrasonic horn. Journal of the Acoustical Society of America, 2011, 130, 3297-3308.	0.5	39
46	Towards improved monitoring of offshore carbon storage: A real-world field experiment detecting a controlled sub-seafloor CO2 release. International Journal of Greenhouse Gas Control, 2021, 106, 103237.	2.3	39
47	Cavitation luminescence from flow over a hydrofoil in a cavitation tunnel. Journal of Fluid Mechanics, 2003, 480, 43-60.	1.4	37
48	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
49	Viscoâ€“inertial absorption in dilute suspensions of irregular particles. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2003, 459, 2153-2167.	1.0	33
50	Empirical angle-dependent Biot and MBA models for acoustic anisotropy in cancellous bone. Physics in Medicine and Biology, 2007, 52, 59-73.	1.6	33
51	Transient excitation of insonated bubbles. Ultrasonics, 1989, 27, 50-53.	2.1	32
52	Study into Correlation between the Ultrasonic Capillary Effect and Sonoluminescence. Journal of Engineering Physics and Thermophysics, 2004, 77, 53-61.	0.2	32
53	The inertial terms in equations of motion for bubbles in tubular vessels or between plates. Journal of the Acoustical Society of America, 2011, 130, 3333-3338.	0.5	32
54	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

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55	Electrodeposition of copper in the presence of an acoustically excited gas bubble. Electrochemistry Communications, 2007, 9, 1062-1068.	2.3	30
56	Preliminary mapping of void fractions and sound speeds in gassy marine sediments from subbottom profiles. Journal of the Acoustical Society of America, 2008, 124, EL313-EL320.	0.5	30
57	Lithotripsy. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 317-342.	1.0	30
58	Modelling acoustic scattering, sound speed, and attenuation in gassy soft marine sediments. Journal of the Acoustical Society of America, 2016, 140, 274-282.	0.5	30
59	The bactericidal effects of dental ultrasound on Actinobacillus actinomycetemcomitans and Porphyromonas gingivalis. An in vitro investigation. Journal of Clinical Periodontology, 1997, 24, 432-439.	2.3	29
60	Electrochemical Detection of Faraday Waves on the Surface of a Gas Bubble. Langmuir, 2002, 18, 2135-2140.	1.6	29
61	Effects of very high-frequency sound and ultrasound on humans. Part I: Adverse symptoms after exposure to audible very-high frequency sound. Journal of the Acoustical Society of America, 2018, 144, 2511-2520.	0.5	29
62	A noise impact assessment model for passive acoustic measurements of seabed gas fluxes. Ocean Engineering, 2019, 183, 294-304.	1.9	28
63	Studies of the cavitational effects of clinical ultrasound by sonoluminescence: 4. The effect of therapeutic ultrasound on cells in monolayer culture in a standing wave field. Physics in Medicine and Biology, 1989, 34, 1553-1560.	1.6	27
64	A method for estimating time-dependent acoustic cross-sections of bubbles and bubble clouds prior to the steady state. Journal of the Acoustical Society of America, 2000, 107, 1922-1929.	0.5	27
65	Electrochemical evidence of H' produced by ultrasound. Chemical Communications, 2001, , 2230-2231.	2.2	27
66	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
67	High-speed photography of transient excitation. Ultrasonics, 1989, 27, 370-373.	2.1	26
68	Sonoluminescence from the unstable collapse of a conical bubble. Ultrasonics, 1997, 35, 399-405.	2.1	26
69	Electrochemical detection of bubble oscillation. Ultrasonics Sonochemistry, 2003, 10, 65-69.	3.8	26
70	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
71	Localisation of sperm whales using bottom-mounted sensors. Applied Acoustics, 2006, 67, 1074-1090.	1.7	25
72	Cold water cleaning of brain proteins, biofilm and bone â€“ harnessing an ultrasonically activated stream. Physical Chemistry Chemical Physics, 2015, 17, 20574-20579.	1.3	25

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73	Response of seaward-migrating European eel (Anguilla anguilla) to an infrasound deterrent. Ecological Engineering, 2019, 127, 480-486.	1.6	25
74	Efficient mass transfer from an acoustically oscillated gas bubble. Chemical Communications, 2001, , 2650-2651.	2.2	24
75	Broadband Acoustic Inversion for Gas Flux Quantificationâ€”Application to a Methane Plume at Scanner Pockmark, Central North Sea. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016360.	1.0	24
76	Three-dimensional high-resolution acoustic imaging of the sub-seabed. Applied Acoustics, 2008, 69, 412-421.	1.7	23
77	Acoustic attenuation, phase and group velocities in liquid-filled pipes II: Simulation for spallation neutron sources and planetary exploration. Journal of the Acoustical Society of America, 2011, 130, 695-706.	0.5	23
78	How can humans, in air, hear sound generated underwater (and can goldfish hear their owners) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	0.5	23
79	Effects of very high-frequency sound and ultrasound on humans. Part II: A double-blind randomized provocation study of inaudible 20-kHz ultrasound. Journal of the Acoustical Society of America, 2018, 144, 2521-2531.	0.5	23
80	Cathodic Electrochemical Detection of Sonochemical Radical Products. Analytical Chemistry, 2002, 74, 2584-2590.	3.2	22
81	The study of surface processes under electrochemical control in the presence of inertial cavitation. Wear, 2005, 258, 623-628.	1.5	22
82	Clutter suppression and classification using twin inverted pulse sonar (TWIPS). Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 3453-3478.	1.0	22
83	An electrochemical and high-speed imaging study of micropore decontamination by acoustic bubble entrapment. Physical Chemistry Chemical Physics, 2014, 16, 4982.	1.3	22
84	Acoustic and optical determination of bubble size distributions â€“ Quantification of seabed gas emissions. International Journal of Greenhouse Gas Control, 2021, 108, 103313.	2.3	22
85	Time-lapse imaging of CO2 migration within near-surface sediments during a controlled sub-seabed release experiment. International Journal of Greenhouse Gas Control, 2021, 109, 103363.	2.3	22
86	3D high-resolution acoustic imaging of the sub-seabed. Applied Acoustics, 2008, 69, 262-271.	1.7	21
87	Electrochemical, luminescent and photographic characterisation of cavitation. Ultrasonics Sonochemistry, 2003, 10, 203-208.	3.8	20
88	The Rayleighâ€“Plesset equation in terms of volume with explicit shear losses. Ultrasonics, 2008, 48, 85-90.	2.1	20
89	Numerical studies of cavitation erosion on an elasticâ€“plastic material caused by shock-induced bubble collapse. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170315.	1.0	20
90	Public exposure to ultrasound and very high-frequency sound in air. Journal of the Acoustical Society of America, 2018, 144, 2554-2564.	0.5	20

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91	The detection and dimension of bubble entrainment and comminution. Journal of the Acoustical Society of America, 1998, 103, 1825-1835.	0.5	19
92	Sound absorption by suspensions of nonspherical particles: Measurements compared with predictions using various particle sizing techniques. Journal of the Acoustical Society of America, 2003, 114, 1841-1850.	0.5	19
93	Acoustic radiation force on a parametrically distorted bubble. Journal of the Acoustical Society of America, 2018, 143, 296-305.	0.5	19
94	Measurement of viscous sound absorption at 50â€“150 kHz in a model turbid environment. Journal of the Acoustical Society of America, 1998, 104, 2114-2120.	0.5	18
95	A 1 kHz resolution frequency study of a variety of sonochemical processes. Physical Chemistry Chemical Physics, 2003, 5, 4170-4174.	1.3	18
96	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
97	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
98	Electrochemical â€˜bubble swarmâ€™ enhancement of ultrasonic surface cleaning. Physical Chemistry Chemical Physics, 2015, 17, 21709-21715.	1.3	18
99	An activated fluid stream â€“ New techniques for cold water cleaning. Ultrasonics Sonochemistry, 2016, 29, 612-618.	3.8	18
100	Cluster Collapse in a Cylindrical Cell: Correlating Multibubble Sonoluminescence, Acoustic Pressure, and Erosion. Journal of Physical Chemistry C, 2010, 114, 16416-16425.	1.5	17
101	Acoustic wave propagation in gassy porous marine sediments: The rheological and the elastic effects. Journal of the Acoustical Society of America, 2017, 141, 2277-2288.	0.5	17
102	Comment on â€˜Are some people suffering as a result of increasing mass exposure of the public to ultrasound in air?â€™. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20160828.	1.0	17
103	Asymmetric transfer of CO2 across a broken sea surface. Scientific Reports, 2018, 8, 8301.	1.6	17
104	A search for sonoluminescence in vivo in the human cheek. Ultrasonics, 1990, 28, 181-184.	2.1	16
105	Measurement of the In Situ Compressional Wave Properties of Marine Sediments. IEEE Journal of Oceanic Engineering, 2007, 32, 484-496.	2.1	16
106	Clutter suppression and classification using twin inverted pulse sonar in ship wakes. Journal of the Acoustical Society of America, 2011, 130, 3431-3437.	0.5	16
107	Group behavior and tolerance of Eurasian minnow (Phoxinus phoxinus) in response to tones of differing pulse repetition rate. Journal of the Acoustical Society of America, 2020, 147, 1709-1718.	0.5	16
108	Studies of the cavitational effects of clinical ultrasound by sonoluminescence: 3. Cavitation from pulses a few microseconds in length. Physics in Medicine and Biology, 1989, 34, 1139-1151.	1.6	15

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109	Theory for acoustic propagation in marine sediment containing gas bubbles which may pulsate in a nonâ€stationary nonlinear manner. Geophysical Research Letters, 2007, 34, .	1.5	15
110	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
111	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
112	Bubbles versus biofilms: a novel method for the removal of marine biofilms attached on antifouling coatings using an ultrasonically activated water stream. Surface Topography: Metrology and Properties, 2016, 4, 034009.	0.9	15
113	Use of acoustics to enhance the efficiency of physical screens designed to protect downstream moving European eel (Anguilla anguilla). Fisheries Management and Ecology, 2020, 27, 1-9.	1.0	15
114	Studies of non-linear bubble oscillations in a simulated acoustic field. European Journal of Physics, 1990, 11, 352-358.	0.3	14
115	Predictions of the modified Biotâ€“Attenborough model for the dependence of phase velocity on porosity in cancellous bone. Ultrasonics, 2007, 46, 323-330.	2.1	14
116	Real-time on-line ultrasonic monitoring for bubbles in ceramic â€˜slipâ€™ in pottery pipelines. Ultrasonics, 2010, 50, 60-67.	2.1	14
117	The use of acoustoelectrochemistry to investigate rectified diffusion. Ultrasonics Sonochemistry, 2004, 11, 217-221.	3.8	13
118	Mass transfer enhancement produced by laser induced cavitation. Electrochemistry Communications, 2006, 8, 1603-1609.	2.3	13
119	The detection by sonar of difficult targets (including centimetre-scale plastic objects and optical) Tj ETQq1 1 0.784314 rgBT /Overlock	1.7	13
120	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
121	The acoustic bubble: Oceanic bubble acoustics and ultrasonic cleaning. Proceedings of Meetings on Acoustics, 2015, , .	0.3	13
122	The one-dimensional bubble: an unusual oscillator, with applications to human bioeffects of underwater sound. European Journal of Physics, 1995, 16, 275-281.	0.3	12
123	Issues relating to the use of a 61.5dB conversion factor when comparing airborne and underwater anthroprogenic noise levels. Applied Acoustics, 2008, 69, 464-471.	1.7	12
124	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
125	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
126	Use of clicks resembling those of the Atlantic bottlenose dolphin (Tursiops truncatus) to improve target discrimination in bubbly water with biased pulse summation sonar. IET Radar, Sonar and Navigation, 2012, 6, 510-515.	0.9	11

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127	The Sound of Music and Voices in Space Part 1: Theory. Acoustics Today, 2009, 5, 17.	1.0	11
128	The problems with acoustics on a small planet. Icarus, 2008, 193, 649-652.	1.1	10
129	Self focusing of acoustically excited Faraday ripples on a bubble wall. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 3210-3216.	0.9	10
130	Fluid loading effects for acoustical sensors in the atmospheres of Mars, Venus, Titan, and Jupiter. Journal of the Acoustical Society of America, 2009, 125, EL214.	0.5	10
131	Review of Offshore CO2 Storage Monitoring: Operational and Research Experiences of Meeting Regulatory and Technical Requirements. Energy Procedia, 2017, 114, 5967-5980.	1.8	10
132	Ultrasound in airâ€"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
133	Passive acoustic localisation of undersea gas seeps using beamforming. International Journal of Greenhouse Gas Control, 2021, 108, 103316.	2.3	10
134	Dolphin-Inspired Target Detection for Sonar and Radar. Archives of Acoustics, 2015, 39, 319-332.	0.9	9
135	The acoustic bubble: Ocean, cetacean and extraterrestrial acoustics, and cold water cleaning. Journal of Physics: Conference Series, 2017, 797, 012001.	0.3	9
136	The response of anguilliform fish to underwater sound under an experimental setting. River Research and Applications, 2020, 36, 441-451.	0.7	9
137	Development of a new diagnostic sensor for extra-corporeal shock-wave lithotripsy. Journal of Physics: Conference Series, 2004, 1, 134-139.	0.3	8
138	Influence of acoustics on the collective behaviour of a shoaling freshwater fish. Freshwater Biology, 2020, 65, 2186-2195.	1.2	8
139	Assuring the integrity of offshore carbon dioxide storage. Renewable and Sustainable Energy Reviews, 2022, 166, 112670.	8.2	8
140	Nonlinear Bubble Dynamics And The Effects On Propagation Through Near-Surface Bubble Layers. AIP Conference Proceedings, 2004, , .	0.3	7
141	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
142	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
143	Industrial lubricant removal using an ultrasonically activated water stream, with potential application for Coronavirus decontamination and infection prevention for SARS-CoV-2. Transactions of the Institute of Metal Finishing, 2020, 98, 258-270.	0.6	7
144	A cold water, ultrasonically activated stream efficiently removes proteins and prion-associated amyloid from surgical stainless steel. Journal of Hospital Infection, 2020, 106, 649-656.	1.4	7

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145	Collective behaviour of the European minnow (Phoxinus phoxinus) is influenced by signals of differing acoustic complexity. Behavioural Processes, 2021, 189, 104416.	0.5	7
146	Shock/bubble interaction near a rigid boundary in shock wave lithotripsy. , 2005, , 1211-1216.		7
147	An introduction to acoustic cavitation. , 0, , .		7
148	Opto-Isolation of Electrochemical Systems in Cavitation Environments. Analytical Chemistry, 2009, 81, 5064-5069.	3.2	6
149	Editorial: Biologically-inspired radar and sonar systems. IET Radar, Sonar and Navigation, 2012, 6, 507-509.	0.9	6
150	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
151	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
152	Sonar equations for planetary exploration. Journal of the Acoustical Society of America, 2016, 140, 1400-1419.	0.5	6
153	Does Masking Matter? Shipping Noise and Fish Vocalizations. Advances in Experimental Medicine and Biology, 2016, 875, 747-753.	0.8	6
154	Measurements of ultrasonic deterrents and an acoustically branded hairdryer: Ambiguities in guideline compliance. Journal of the Acoustical Society of America, 2018, 144, 2565-2574.	0.5	6
155	Underwater radiated noise from hydrofoils in coastal water. Journal of the Acoustical Society of America, 2019, 146, 3552-3561.	0.5	6
156	Improving livestock feed safety and infection prevention: Removal of bacterial contaminants from hay using cold water, bubbles and ultrasound. Ultrasonics Sonochemistry, 2021, 71, 105372.	3.8	6
157	New approaches to contrast agent modelling. Journal of Physics: Conference Series, 2004, 1, 91-96.	0.3	5
158	Rapporteur report: Mechanisms and interactions. Progress in Biophysics and Molecular Biology, 2007, 93, 280-294.	1.4	5
159	Supplement to Physical Exchanges at the Airâ€“Sea Interface: UKâ€“SOLAS Field Measurements. Bulletin of the American Meteorological Society, 2009, 90, ES9-ES16.	1.7	5
160	A new approach to ultrasonic cleaning. Proceedings of Meetings on Acoustics, 2013, , .	0.3	5
161	A comparison of ultrasonically activated water stream and ultrasonic bath immersion cleaning of railhead leaf-film contaminant. Surface Topography: Metrology and Properties, 2016, 4, 034003.	0.9	5
162	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

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163	The Possibilities of Using Ultrasonically Activated Streams to Reduce the Risk of Foodborne Infection from Salad. Ultrasound in Medicine and Biology, 2021, 47, 1616-1630.	0.7	5
164	Acoustic propagation in gassy intertidal marine sediments: An experimental study. Journal of the Acoustical Society of America, 2021, 150, 2705-2716.	0.5	5
165	The response of common carp (Cyprinus carpio) to insonified bubble curtains. Journal of the Acoustical Society of America, 2021, 150, 3874-3888.	0.5	5
166	Bubble acoustics: what can we learn from cetaceans about contrast enhancement?. , 0, , .		4
167	The Design And Implementation Of A Passive Cavitation Detection System For Use With Ex Vivo Tissue. AIP Conference Proceedings, 2006, , .	0.3	4
168	Absolute calibration of hydrophones immersed in sandy sediment. Journal of the Acoustical Society of America, 2009, 125, 2918.	0.5	4
169	INNOVATION TO IMPACT IN A TIME OF RECESSION. Journal of Computational Acoustics, 2011, 19, 1-25.	1.0	4
170	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
171	The Sound of Music and Voices in Space Part 2: Modeling and Simulation. Acoustics Today, 2009, 5, 27-29.	1.0	4
172	The frequency analysis of transients. European Journal of Physics, 1988, 9, 69-70.	0.3	3
173	Guest editorial: Acoustic and related waves in extraterrestrial environments. Journal of the Acoustical Society of America, 2016, 140, 1397-1399.	0.5	3
174	Extraterrestrial sound for planetaria: A pedagogical study. Journal of the Acoustical Society of America, 2016, 140, 1469-1480.	0.5	3
175	Bubble Sizing by the Nonlinear Scattering of Two Acoustic Frequencies. , 1993, , 453-466.		3
176	Public Exposure to Airborne Ultrasound and Very High Frequency Sound. Acoustics Today, 0, 16, 17.	1.0	3
177	Dynamics of a Tethered Bubble. AIP Conference Proceedings, 2006, , .	0.3	2
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