Michael A Ainslie

List of Publications by Year in descending order

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| | 361413 | 330143 |
|----------------|---|---|
| 1,815 | 20 | 37 |
| citations | h-index | g-index |
| | | |
| | | |
| | | |
| 127 | 127 | 1297 |
| docs citations | times ranked | citing authors |
| | | |
| | 1,815 citations 127 docs citations | 1,81520citationsh-index127127docs citationstimes ranked |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Terminology Standard for Underwater Acoustics and the Benefits of International Standardization. IEEE Journal of Oceanic Engineering, 2022, 47, 179-200. | 3.8 | 16 |
| 2 | International harmonization of procedures for measuring and analyzing of vessel underwater radiated noise. Marine Pollution Bulletin, 2022, 174, 113124. | 5.0 | 10 |
| 3 | Effects of a seismic survey on movement of free-ranging Atlantic cod. Current Biology, 2021, 31, 1555-1562.e4. | 3.9 | 25 |
| 4 | Modeling potential masking of echolocating sperm whales exposed to continuous 1–2 kHz naval sonar. Journal of the Acoustical Society of America, 2021, 149, 2908-2925. | 1.1 | 6 |
| 5 | Temperature-driven seasonal and longer term changes in spatially averaged deep ocean ambient sound at frequencies 63–125 Hz. Journal of the Acoustical Society of America, 2021, 149, 2531-2545. | 1.1 | 10 |
| 6 | Characterization of the acoustic output of single marine-seismic airguns and clusters: The Svein Vaage dataset. Journal of the Acoustical Society of America, 2021, 150, 3675-3692. | 1.1 | 6 |
| 7 | Application of kurtosis to underwater sound. Journal of the Acoustical Society of America, 2020, 148, 780-792. | 1.1 | 20 |
| 8 | Application of damped cylindrical spreading to assess range to injury threshold for fishes from impact pile driving. Journal of the Acoustical Society of America, 2020, 148, 108-121. | 1.1 | 13 |
| 9 | Modeling Acoustical Pressure and Particle Acceleration Close to Marine Seismic Airguns and Airgun Arrays. IEEE Journal of Oceanic Engineering, 2019, 44, 611-620. | 3.8 | 5 |
| 10 | Guest Editorial Special Issue on Verification and Validation of Air Gun Source Signature and Sound Propagation Models. IEEE Journal of Oceanic Engineering, 2019, 44, 551-559. | 3.8 | 3 |
| 11 | International Airgun Modeling Workshop: Validation of Source Signature and Sound Propagation Models—Dublin (Ireland), JulyÂ16, 2016—Problem Description. IEEE Journal of Oceanic Engineering, 2019, 44, 565-574. | 3.8 | 7 |
| 12 | Guest Editorial: The International Airgun Modeling Workshop. IEEE Journal of Oceanic Engineering, 2019, 44, 560-564. | 3.8 | 1 |
| 13 | Populationâ€level consequences of seismic surveys on fishes: An interdisciplinary challenge. Fish and Fisheries, 2019, 20, 653-685. | 5.3 | 38 |
| 14 | Source specific sound mapping: Spatial, temporal and spectral distribution of sound in the Dutch North Sea. Environmental Pollution, 2019, 247, 1143-1157. | 7.5 | 45 |
| 15 | Predicting acoustic dose associated with marine mammal behavioural responses to sound as detected with fixed acoustic recorders and satellite tags. Journal of the Acoustical Society of America, 2019, 145, 1401-1416. | 1.1 | 3 |
| 16 | Analytical and Numerical Propagation Loss Predictions for Gradually Range-Dependent Isospeed Waveguides. IEEE Journal of Oceanic Engineering, 2019, 44, 1240-1252. | 3.8 | 9 |
| 17 | The contribution of shipping sound to the dutch underwater soundscape: Past, present, future. Proceedings of Meetings on Acoustics, 2019, , . | 0.3 | 1 |
| 18 | Behavioral Responses of Harbor Porpoises (Phocoena phocoena) to U.S. Navy 53C Sonar Signals in Noise. Aquatic Mammals, 2019, 45, 359-366. | 0.7 | 0 |

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|----|---|-----|-----------|
| 19 | Modelling the broadband propagation of marine mammal echolocation clicks for click-based population density estimates. Journal of the Acoustical Society of America, 2018, 143, 954-967. | 1.1 | 10 |
| 20 | Pile driving acoustics made simple: Damped cylindrical spreading model. Journal of the Acoustical Society of America, 2018, 143, 310-317. | 1.1 | 19 |
| 21 | Behavioral Responses of Harbor Porpoises (Phocoena phocoena) to Sonar Playback Sequences of Sweeps and Tones (3.5-4.1 kHz). Aquatic Mammals, 2018, 44, 389-404. | 0.7 | 0 |
| 22 | Echo, Reverberation, and Echo-to-Reverberation Ratio for a Short Pulse in a Range-Dependent Pekeris Waveguide. IEEE Journal of Oceanic Engineering, 2017, 42, 362-372. | 3.8 | 3 |
| 23 | Temporary hearing threshold shift in a harbor porpoise (<i>Phocoena phocoena</i>) after exposure to multiple airgun sounds. Journal of the Acoustical Society of America, 2017, 142, 2430-2442. | 1.1 | 22 |
| 24 | Acoustical measurement, processing, reporting and terminology standards for underwater risk assessment. Proceedings of Meetings on Acoustics, 2017, , . | 0.3 | 2 |
| 25 | Verification of airgun sound field models for environmental impact assessment. Proceedings of Meetings on Acoustics, 2016, , . | 0.3 | 13 |
| 26 | The effect of sound speed profile on shallow water shipping sound maps. Journal of the Acoustical Society of America, 2016, 140, EL84-EL88. | 1.1 | 11 |
| 27 | Sonar equations for planetary exploration. Journal of the Acoustical Society of America, 2016, 140, 1400-1419. | 1.1 | 6 |
| 28 | Low frequency bottom reverberation in a Pekeris waveguide with Lambert's rule. Journal of Computational Acoustics, 2016, 24, 1650001. | 1.0 | 6 |
| 29 | COMPILE—A Generic Benchmark Case for Predictions of Marine Pile-Driving Noise. IEEE Journal of Oceanic Engineering, 2016, 41, 1061-1071. | 3.8 | 31 |
| 30 | Sources of Underwater Sound and Their Characterization. Advances in Experimental Medicine and Biology, 2016, 875, 27-35. | 1.6 | 8 |
| 31 | Summary Report Panel 1: The Need for Protocols and Standards in Research on Underwater Noise Impacts on Marine Life. Advances in Experimental Medicine and Biology, 2016, 875, 1265-1271. | 1.6 | 4 |
| 32 | Controlled Sonar Exposure Experiments on Cetaceans in Norwegian Waters: Overview of the 3S-Project. Advances in Experimental Medicine and Biology, 2016, 875, 589-598. | 1.6 | 0 |
| 33 | Assessing the Effectiveness of Ramp-Up During Sonar Operations Using Exposure Models. Advances in Experimental Medicine and Biology, 2016, 875, 1197-1203. | 1.6 | 1 |
| 34 | The European Marine Strategy: Noise Monitoring in European Marine Waters from 2014. Advances in Experimental Medicine and Biology, 2016, 875, 205-215. | 1.6 | 7 |
| 35 | Mapping Underwater Sound in the Dutch Part of the North Sea. Advances in Experimental Medicine and Biology, 2016, 875, 1001-1006. | 1.6 | 7 |
| 36 | Offshore Dredger Sounds: Source Levels, Sound Maps, and Risk Assessment. Advances in Experimental Medicine and Biology, 2016, 875, 189-196. | 1.6 | 1 |

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|----|---|-----|-----------|
| 37 | Potential Population Consequences of Active Sonar Disturbance in Atlantic Herring: Estimating the Maximum Risk. Advances in Experimental Medicine and Biology, 2016, 875, 217-222. | 1.6 | 0 |
| 38 | Development of a Model to Assess Masking Potential for Marine Mammals by the Use of Air Guns in Antarctic Waters. Advances in Experimental Medicine and Biology, 2016, 875, 1243-1249. | 1.6 | 0 |
| 39 | Potential for population-level disturbance by active sonar in herring. ICES Journal of Marine Science, 2015, 72, 558-567. | 2.5 | 11 |
| 40 | Definition and results of test cases for shipping sound maps. , 2015, , . | | 8 |
| 41 | How effectively do horizontal and vertical response strategies of long-finned pilot whales reduce sound exposure from naval sonar?. Marine Environmental Research, 2015, 106, 68-81. | 2.5 | 17 |
| 42 | Assessing the Impact of Underwater Clearance of Unexploded Ordnance on Harbour Porpoises (Phocoena phocoena) in the Southern North Sea. Aquatic Mammals, 2015, 41, 503-523. | 0.7 | 40 |
| 43 | Assessing the environmental risks of marine seismic surveying: latest insights from sonar. , 2015, , . | | 0 |
| 44 | Dose-response relationships for the onset of avoidance of sonar by free-ranging killer whales. Journal of the Acoustical Society of America, 2014, 135, 975-993. | 1.1 | 78 |
| 45 | Modeling Effectiveness of Gradual Increases in Source Level to Mitigate Effects of Sonar on Marine Mammals. Conservation Biology, 2014, 28, 119-128. | 4.7 | 12 |
| 46 | Improved Active Sonar Tactical Support by Through-the-Sensor Estimation of Acoustic Seabed Properties. IEEE Journal of Oceanic Engineering, 2014, 39, 755-768. | 3.8 | 3 |
| 47 | A depth-dependent formula for shallow water propagation. Journal of the Acoustical Society of America, 2014, 136, 573-582. | 1.1 | 29 |
| 48 | Changes in 63Hz third-octave band sound levels over 42months recorded at four deep-ocean observatories. Journal of Marine Systems, 2014, 130, 4-11. | 2.1 | 21 |
| 49 | Simulation of an Underwater Acoustic Communication Channel Characterized by Wind-Generated Surface Waves and Bubbles. IEEE Journal of Oceanic Engineering, 2013, 38, 642-654. | 3.8 | 35 |
| 50 | Validation of finite element computations for the quantitative prediction of underwater noise from impact pile driving. Journal of the Acoustical Society of America, 2013, 133, 72-81. | 1.1 | 69 |
| 51 | Echo and reverberation in a Pekeris waveguide by convolution and by the product rule. Journal of the Acoustical Society of America, 2013, 133, 1335-1346. | 1.1 | 5 |
| 52 | Neglect of bandwidth of Odontocetes echo location clicks biases propagation loss and single hydrophone population estimates. Journal of the Acoustical Society of America, 2013, 134, 3506-3512. | 1.1 | 12 |
| 53 | Insights into the calculation of metrics for transient sounds in shallow water. Proceedings of Meetings on Acoustics, 2013, , . | 0.3 | 2 |
| 54 | Optimal soft start and shutdown procedures or stationary or moving sound sources. Proceedings of Meetings on Acoustics, 2013, , . | 0.3 | 3 |

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|----|--|-----|-----------|
| 55 | The Weston Memorial workshop: progress to date on low frequency active sonar scenarios. Proceedings of Meetings on Acoustics, 2013, , . | 0.3 | 2 |
| 56 | Impact of naval sonar signals on Atlantic herring (Clupea harengus) during summer feeding. ICES Journal of Marine Science, 2012, 69, 1078-1085. | 2.5 | 12 |
| 57 | Simulation of an underwater acoustic communication channel characterized by wind-generated surface waves and bubbles. Proceedings of Meetings on Acoustics, 2012, , . | 0.3 | 6 |
| 58 | What is the Source Level of Pile-Driving Noise in Water?. Advances in Experimental Medicine and Biology, 2012, 730, 445-448. | 1.6 | 4 |
| 59 | Bayesian reverberation inversion incorporating grain-size dependent regression relations as a priori information. Proceedings of Meetings on Acoustics, 2012, , . | 0.3 | 1 |
| 60 | Measuring ship acoustic signatures against mine threat. Proceedings of Meetings on Acoustics, 2012, , | 0.3 | 2 |
| 61 | Potential causes of increasing low frequency ocean noise levels. Proceedings of Meetings on Acoustics, 2012, , . | 0.3 | 2 |
| 62 | Assessment of Cumulative Sound Exposure Levels for Marine Piling Events. Advances in Experimental Medicine and Biology, 2012, 730, 453-457. | 1.6 | 0 |
| 63 | 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. | 1.1 | 180 |
| 64 | The effect of wind-generated bubbles on sea-surface backscattering at 940 Hz. Journal of the Acoustical Society of America, 2011, 130, 3413-3420. | 1,1 | 16 |
| 65 | Detection of Blainville's beaked whales with towed arrays. Applied Acoustics, 2010, 71, 1027-1035. | 3.3 | 19 |
| 66 | Fixed time versus fixed range reverberation calculation: Analytical solution. Journal of the Acoustical Society of America, 2010, 128, 28-38. | 1.1 | 10 |
| 67 | Principles of Sonar Performance Modelling. , 2010, , . | | 209 |
| 68 | 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. | 1,1 | 45 |
| 69 | A Simple and Accurate Formula for the Absorption of Sound in Seawater. IEEE Journal of Oceanic Engineering, 2009, 34, 610-616. | 3.8 | 23 |
| 70 | The sonar equations revisited. , 2009, , 573-633. | | 0 |
| 71 | Underwater acoustics. , 2009, , 191-249. | | 0 |
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|----|---|---------|-----------|
| 73 | Propagation of underwater sound. , 2009, , 439-512. | | 1 |
| 74 | Sources and scatterers of sound. , 2009, , 361-438. | | 0 |
| 75 | The Dependence of Fusion Gain on Signal-Amplitude Distributions and Position Errors. IEEE Journal of Oceanic Engineering, 2008, 33, 266-277. | 3.8 | 2 |
| 76 | Observable parameters from multipath bottom reverberation in shallow water. Journal of the Acoustical Society of America, 2007, 121, 3363. | 1.1 | 17 |
| 77 | A Multivariate Correlation Analysis of High- Frequency Bottom Backscattering Strength Measurements With Geotechnical Parameters. IEEE Journal of Oceanic Engineering, 2007, 32, 640-650. | 3.8 | 14 |
| 78 | Mean grain size mapping with single-beam echo sounders. Journal of the Acoustical Society of America, 2006, 120, 2555-2566. | 1.1 | 23 |
| 79 | "Transmission loss―and "propagation loss―in undersea acoustics. Journal of the Acoustical Society of America, 2005, 118, 603-604. | 1.1 | 8 |
| 80 | Effect of wind-generated bubbles on fixed range acoustic attenuation in shallow water at 1–4kHz. Journal of the Acoustical Society of America, 2005, 118, 3513-3523. | 1.1 | 45 |
| 81 | The sonar equation and the definitions of propagation loss. Journal of the Acoustical Society of America, 2004, 115, 131-134. | 1.1 | 6 |
| 82 | Caustic envelopes and cusp coordinates due to the reflection of a spherical wave from a layered sediment. Journal of the Acoustical Society of America, 2004, 115, 1449-1459. | 1.1 | 5 |
| 83 | Conditions for the excitation of interface waves in a thin unconsolidated sediment layer. Journal of Sound and Vibration, 2003, 268, 249-267. | 3.9 | 7 |
| 84 | Obituaries: David E. Westonâ€,•â€,1929–2001. Journal of the Acoustical Society of America, 2001, 110, 647 | -6.417. | 0 |
| 85 | DEDUCTIVE MULTI-TONE INVERSION OF SEABED PARAMETERS. Journal of Computational Acoustics, 2000, 08, 271-284. | 1.0 | 3 |
| 86 | Comments on "Ultrasonic interferences in polymer plates―[J. Acoust. Soc. Am. 104, 1232–1241 (1998)]. Journal of the Acoustical Society of America, 1999, 106, 3034-3035. | 1.1 | 0 |
| 87 | Fast and explicit Wentzel–Kramers–Brillouin mode sum for the bottom-interacting field, including leaky modes. Journal of the Acoustical Society of America, 1998, 103, 1804-1812. | 1.1 | 9 |
| 88 | A simplified formula for viscous and chemical absorption in sea water. Journal of the Acoustical Society of America, 1998, 103, 1671-1672. | 1.1 | 291 |
| 89 | Benchmark solutions of plane wave bottom reflection loss. Journal of the Acoustical Society of America, 1998, 104, 3305-3312. | 1.1 | 5 |
| 90 | Broadband Geoacoustic Deduction. Journal of Computational Acoustics, 1998, 06, 45-59. | 1.0 | 2 |

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|----|---|-----|-----------|
| 91 | Reflection and transmission coefficients for a layered fluid sediment overlying a uniform solid substrate. Journal of the Acoustical Society of America, 1996, 99, 893-902. | 1.1 | 26 |
| 92 | Energy onserving reflection and transmission coefficients for a solid–solid boundary. Journal of the Acoustical Society of America, 1995, 98, 2836-2840. | 1.1 | 31 |
| 93 | Planeâ€wave reflection and transmission coefficients for a threeâ€layered elastic medium. Journal of the Acoustical Society of America, 1995, 97, 954-961. | 1.1 | 28 |
| 94 | Experimental study of sound propagation in modelled shallow-water environments. Ultrasonics, 1994, 32, 141-147. | 3.9 | 2 |
| 95 | Caustics and beam displacements due to the reflection of spherical waves from a layered halfâ€space. Journal of the Acoustical Society of America, 1994, 96, 2506-2515. | 1.1 | 3 |
| 96 | Stationary phase evaluation of the bottom interacting field in isovelocity water. Journal of the Acoustical Society of America, 1993, 94, 1496-1509. | 1.1 | 7 |
| 97 | Numerical and laboratory modeling of propagation over troughs and ridges. Journal of the Acoustical Society of America, 1993, 94, 2287-2295. | 1.1 | 9 |
| 98 | The Influence of Sediment Rigidity on the Plane-Wave Reflection Coefficient. , 1991, , 447-454. | | 1 |