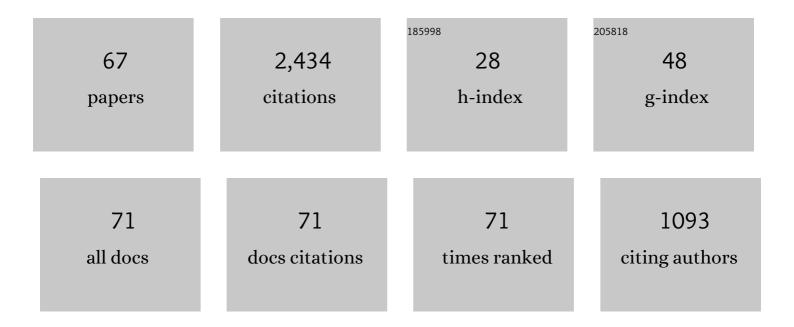
## David R Dowling

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Recovery of coherent reflection from rough-surface scattered acoustic fields via the<br>frequency-difference autoproduct. Journal of the Acoustical Society of America, 2022, 151, 620-633.                                 | 0.5 | 2         |
| 2  | Measurements of the correlation of the frequency-difference autoproduct with acoustic and predicted-autoproduct fields in the deep ocean. Journal of the Acoustical Society of America, 2021, 149, 853-865.                 | 0.5 | 5         |
| 3  | Robust long-range source localization in the deep ocean using phase-only matched autoproduct processing. Journal of the Acoustical Society of America, 2021, 150, 171-182.  | 0.5 | 7         |
| 4  | High-resolution acoustic localization of changes in spatially-distributed coherent sources for structural health monitoring. Journal of the Acoustical Society of America, 2020, 148, 713-723.                              | 0.5 | 2         |
| 5  | Autoproducts in and near acoustic shadow zones created by barriers. Journal of the Acoustical Society of America, 2020, 147, 1863-1873.   | 0.5 | 4         |
| 6  | The effects of refraction and caustics on autoproducts. Journal of the Acoustical Society of America, 2020, 147, 3959-3968.   | 0.5 | 5         |
| 7  | Frequency-difference beamforming in the presence of strong random scattering. Journal of the<br>Acoustical Society of America, 2019, 146, 122-134.  | 0.5 | 13        |
| 8  | Remote acoustic detection of cuts in a vibrating plate with stochastic input forcing in a reverberant environment. Journal of the Acoustical Society of America, 2019, 145, 3039-3047.                                      | 0.5 | 0         |
| 9  | Long-range frequency-difference source localization in the Philippine Sea. Journal of the Acoustical<br>Society of America, 2019, 146, 4727-4739.   | 0.5 | 21        |
| 10 | Information and suggestions for new mentors of beginning researchers. Proceedings of Meetings on Acoustics, 2019, , .   | 0.3 | 0         |
| 11 | Remote acoustic detection of mechanical changes in a vibrating plate in an unknown reverberant environment. Journal of the Acoustical Society of America, 2018, 143, 1093-1101.   | 0.5 | 2         |
| 12 | Effect of bevel angle on the reflection coefficient from open unflanged pipes. Journal of the<br>Acoustical Society of America, 2018, 144, 1212-1215.   | 0.5 | 3         |
| 13 | Measurement of autoproduct fields in a Lloyd's mirror environment. Journal of the Acoustical<br>Society of America, 2018, 143, 2419-2427.   | 0.5 | 14        |
| 14 | Revealing hidden information with quadratic products of acoustic field amplitudes. Physical Review Fluids, 2018, 3, .   | 1.0 | 5         |
| 15 | Adaptive frequency-difference matched field processing for high frequency source localization in a noisy shallow ocean. Journal of the Acoustical Society of America, 2017, 141, 543-556.                                   | 0.5 | 33        |
| 16 | Far-field coherent backscatter enhancement from random aggregations of scatterers and<br>comparisons to backscattering from single isolated spheres. Journal of the Acoustical Society of<br>America, 2017, 141, 1214-1225. | 0.5 | 1         |
| 17 | Performance comparisons of frequency-difference and conventional beamforming. Journal of the Acoustical Society of America, 2017, 142, 1663-1673.   | 0.5 | 27        |
| 18 | The frequency-difference and frequency-sum acoustic-field autoproducts. Journal of the Acoustical<br>Society of America, 2017, 141, 4579-4590.  | 0.5 | 25        |

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|----|--|------|-----------|
| 19 | Freeman Scholar Review: Passive and Active Skin-Friction Drag Reduction in Turbulent Boundary<br>Layers. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .                                     | 0.8  | 44        |
| 20 | Simulating acoustic coherent backscattering enhancement from random aggregations of omnidirectional scatterers. Journal of the Acoustical Society of America, 2015, 138, 758-768.                                  | 0.5  | 3         |
| 21 | High frequency source localization in a shallow ocean sound channel using frequency difference matched field processing. Journal of the Acoustical Society of America, 2015, 138, 3549-3562.                       | 0.5  | 50        |
| 22 | Acoustic Remote Sensing. Annual Review of Fluid Mechanics, 2015, 47, 221-243.  | 10.8 | 36        |
| 23 | Ranging bowhead whale calls in a shallow-water dispersive waveguide. Journal of the Acoustical Society of America, 2014, 136, 130-144.   | 0.5  | 23        |
| 24 | On the scaling of air entrainment from a ventilated partial cavity. Journal of Fluid Mechanics, 2013, 732, 47-76.  | 1.4  | 54        |
| 25 | On the scaling of air layer drag reduction. Journal of Fluid Mechanics, 2013, 717, 484-513.  | 1.4  | 77        |
| 26 | Simulations and measurements of inâ€mold melt flow during the injection molding of polystyrene.<br>Polymer Engineering and Science, 2013, 53, 770-779.   | 1.5  | 9         |
| 27 | Modification of the mean near-wall velocity profile of a high-Reynolds number turbulent boundary<br>layer with the injection of drag-reducing polymer solutions. Physics of Fluids, 2013, 25, .                    | 1.6  | 43        |
| 28 | Broadband sparse-array blind deconvolution using frequency-difference beamforming. Journal of the<br>Acoustical Society of America, 2012, 132, 3018-3029.  | 0.5  | 47        |
| 29 | Blind deconvolution for robust signal estimation and approximate source localization. Journal of the Acoustical Society of America, 2012, 131, 2599-2610.  | 0.5  | 51        |
| 30 | Turbulence profiles from a smooth flat-plate turbulent boundary layer at high Reynolds number.<br>Experimental Thermal and Fluid Science, 2012, 40, 140-149.   | 1.5  | 28        |
| 31 | Flow-induced degradation of drag-reducing polymer solutions within a high-Reynolds-number turbulent boundary layer. Journal of Fluid Mechanics, 2011, 670, 337-364.  | 1.4  | 39        |
| 32 | Particle image velocimetry in molten plastic. Polymer Engineering and Science, 2011, 51, 730-745.  | 1.5  | 2         |
| 33 | The mean velocity profile of a smooth-flat-plate turbulent boundary layer at high Reynolds number.<br>Journal of Fluid Mechanics, 2010, 665, 357-381.  | 1.4  | 31        |
| 34 | Ray-based blind deconvolution in ocean sound channels. Journal of the Acoustical Society of America, 2010, 127, EL42-EL47.   | 0.5  | 49        |
| 35 | High-Reynolds-number turbulent-boundary-layer wall-pressure fluctuations with dilute polymer solutions. Physics of Fluids, 2010, 22, 085104.   | 1.6  | 10        |
| 36 | Numerical simulation of free surface flows with the level set method using an extremely high-order<br>accuracy WENO advection scheme. International Journal of Computational Fluid Dynamics, 2009, 23,<br>233-243. | 0.5  | 14        |

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|----|---|-----|-----------|
| 37 | High-Reynolds-number turbulent-boundary-layer wall pressure fluctuations with skin-friction reduction by air injection. Journal of the Acoustical Society of America, 2008, 123, 2522-2530.   | 0.5 | 6         |
| 38 | Bubble-induced skin-friction drag reduction and the abrupt transition to air-layer drag reduction.<br>Journal of Fluid Mechanics, 2008, 612, 201-236.   | 1.4 | 180       |
| 39 | Using cross correlations of turbulent flow-induced ambient vibrations to estimate the structural<br>impulse response. Application to structural health monitoring. Journal of the Acoustical Society of<br>America, 2007, 121, 1987-1995. | 0.5 | 57        |
| 40 | Bubble friction drag reduction in a high-Reynolds-number flat-plate turbulent boundary layer.<br>Journal of Fluid Mechanics, 2006, 552, 353.  | 1.4 | 178       |
| 41 | High Reynolds number experimentation in the US Navy's William B Morgan Large Cavitation Channel.<br>Measurement Science and Technology, 2005, 16, 1701-1709.  | 1.4 | 35        |
| 42 | Vortex shedding from a hydrofoil at high Reynolds number. Journal of Fluid Mechanics, 2005, 531, 293-324.   | 1.4 | 38        |
| 43 | Effects of time-reversing array deformation in an ocean wave guide. Journal of the Acoustical Society of America, 2004, 115, 2844-2847.   | 0.5 | 5         |
| 44 | Broadband performance of a time reversing array with a moving source. Journal of the Acoustical Society of America, 2004, 115, 2807-2817.   | 0.5 | 12        |
| 45 | Blind deconvolution in ocean waveguides using artificial time reversal. Journal of the Acoustical Society of America, 2004, 116, 262-271.   | 0.5 | 44        |
| 46 | Bubble-size distributions produced by wall injection of air into flowing freshwater, saltwater and surfactant solutions. Experiments in Fluids, 2004, 37, 802-810.  | 1.1 | 59        |
| 47 | Time-averaged flow over a hydrofoil at high Reynolds number. Journal of Fluid Mechanics, 2003, 496, 365-404.  | 1.4 | 29        |
| 48 | Effect of ocean currents on the performance of a time-reversing array in shallow water. Journal of the Acoustical Society of America, 2003, 114, 3125-3135.   | 0.5 | 6         |
| 49 | Broadband performance of a moving time reversing array. Journal of the Acoustical Society of America, 2003, 114, 1395-1405.   | 0.5 | 9         |
| 50 | Broadband time-reversing array retrofocusing in noisy environments. Journal of the Acoustical Society of America, 2002, 111, 823-830.   | 0.5 | 14        |
| 51 | Computed narrow-band azimuthal time-reversing array retrofocusing in shallow water. Journal of the Acoustical Society of America, 2001, 110, 1931-1942.   | 0.5 | 5         |
| 52 | Linear and nonlinear gravity-capillary water waves with a soluble surfactant. Experiments in Fluids, 2001, 30, 448-457.   | 1.1 | 8         |
| 53 | Time-reversing array retrofocusing in noisy environments. Journal of the Acoustical Society of America, 2001, 109, 538-546.   | 0.5 | 15        |
| 54 | Computed narrow-band time-reversing array retrofocusing in a dynamic shallow ocean. Journal of the Acoustical Society of America, 2000, 107, 3101-3112.   | 0.5 | 20        |

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| 55 | Photoacoustic detection and localization of small gas leaks. Journal of the Acoustical Society of America, 1999, 105, 2685-2694.   | 0.5 | 14        |
| 56 | Time-reversing array retrofocusing in simple dynamic underwater environments. Journal of the<br>Acoustical Society of America, 1998, 104, 3339-3350.                     | 0.5 | 13        |
| 57 | Experimental assessment of fractal scale similarity in turbulent flows. Part 4. Effects of Reynolds and Schmidt numbers. Journal of Fluid Mechanics, 1998, 377, 169-187. | 1.4 | 9         |
| 58 | Comparisons of exact and approximate convection of plane waves in a simple shear flow. Journal of the Acoustical Society of America, 1997, 102, 3378-3386.               | 0.5 | 1         |
| 59 | Experimental assessment of fractal scale similarity in turbulent flows. Part 3. Multifractal scaling.<br>Journal of Fluid Mechanics, 1997, 338, 127-155.                 | 1.4 | 33        |
| 60 | Acoustic precondensation phenomena in freons. Journal of the Acoustical Society of America, 1995, 97, 1014-1018.   | 0.5 | 2         |
| 61 | Acoustic pulse compression using passive phaseâ€conjugate processing. Journal of the Acoustical<br>Society of America, 1994, 95, 1450-1458.                              | 0.5 | 146       |
| 62 | Coherence of acoustic scattering from a dynamic rough surface. Journal of the Acoustical Society of America, 1993, 93, 3149-3157.  | 0.5 | 21        |
| 63 | Phaseâ€conjugate array focusing in a moving medium. Journal of the Acoustical Society of America, 1993, 94, 1716-1718.   | 0.5 | 38        |
| 64 | Narrowâ€band performance of phaseâ€conjugate arrays in dynamic random media. Journal of the<br>Acoustical Society of America, 1992, 91, 3257-3277.                       | 0.5 | 91        |
| 65 | Phase conjugation in underwater acoustics. Journal of the Acoustical Society of America, 1991, 89, 171-181.  | 0.5 | 299       |
| 66 | The estimated scalar dissipation rate in gasâ€phase turbulent jets. Physics of Fluids A, Fluid Dynamics,<br>1991, 3, 2229-2246.  | 1.6 | 31        |
| 67 | Similarity of the concentration field of gas-phase turbulent jets. Journal of Fluid Mechanics, 1990, 218, 109.   | 1.4 | 235       |