

# Mark F Hamilton

## List of Publications by Year in descending order

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62  
papers

1,600  
citations

393982

19  
h-index

301761

39  
g-index

66  
all docs

66  
docs citations

66  
times ranked

818  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-domain modeling of pulsed finite-amplitude sound beams. Journal of the Acoustical Society of America, 1995, 97, 906-917.	0.5	295
2	Acoustic streaming generated by standing waves in two-dimensional channels of arbitrary width. Journal of the Acoustical Society of America, 2003, 113, 153-160.	0.5	139
3	Time-domain modeling of finite-amplitude sound in relaxing fluids. Journal of the Acoustical Society of America, 1996, 99, 3312-3318.	0.5	127
4	Separation of compressibility and shear deformation in the elastic energy density (L). Journal of the Acoustical Society of America, 2004, 116, 41-44.	0.5	97
5	Nonlinear distortion of short pulses radiated by plane and focused circular pistons. Journal of the Acoustical Society of America, 1997, 102, 2539-2548.	0.5	94
6	Nonlinear effects in focused sound beams. Journal of the Acoustical Society of America, 1988, 84, 1488-1496.	0.5	83
7	Thermal effects on acoustic streaming in standing waves. Journal of the Acoustical Society of America, 2003, 114, 3092-3101.	0.5	76
8	Linear and nonlinear frequency shifts in acoustical resonators with varying cross sections. Journal of the Acoustical Society of America, 2001, 110, 109-119.	0.5	55
9	Self-demodulation of amplitude- and frequency-modulated pulses in a thermoviscous fluid. Journal of the Acoustical Society of America, 1993, 94, 2876-2883.	0.5	53
10	Nonlinear surface acoustic waves in crystals. Journal of the Acoustical Society of America, 1999, 105, 639-651.	0.5	50
11	Nonlinear two-dimensional model for thermoacoustic engines. Journal of the Acoustical Society of America, 2002, 111, 2076.	0.5	50
12	Measurements of harmonic generation in a focused finite-amplitude sound beam. Journal of the Acoustical Society of America, 1995, 98, 3439-3442.	0.5	49
13	On the coefficient of nonlinearity $\hat{\gamma}^2$ in nonlinear acoustics. Journal of the Acoustical Society of America, 1988, 83, 74-77.	0.5	40
14	Nonlinear dynamics of a gas bubble in an incompressible elastic medium. Journal of the Acoustical Society of America, 2004, 115, 581-588.	0.5	31
15	Sum and difference frequency generation due to noncollinear wave interaction in a rectangular duct. Journal of the Acoustical Society of America, 1987, 81, 1703-1712.	0.5	26
16	Comparison of three transient solutions for the axial pressure in a focused sound beam. Journal of the Acoustical Society of America, 1992, 92, 527-532.	0.5	26
17	Models of cylindrical bubble pulsation. Journal of the Acoustical Society of America, 2012, 132, 1346-1357.	0.5	26
18	Scattering of sound by sound from two Gaussian beams. Journal of the Acoustical Society of America, 1990, 87, 1955-1964.	0.5	20

#	ARTICLE	IF	CITATIONS
19	Second-harmonic generation in a sound beam reflected and transmitted at a curved interface. Journal of the Acoustical Society of America, 2000, 108, 1505-1513.	0.5	19
20	On Rayleigh wave nonlinearity, and analytical approximation of the shock formation distance. Journal of the Acoustical Society of America, 1997, 102, 2529-2535.	0.5	18
21	Transient axial solution for the reflection of a spherical wave from a concave ellipsoidal mirror. Journal of the Acoustical Society of America, 1993, 93, 1256-1266.	0.5	17
22	Bessel beams of finite amplitude in absorbing fluids. Journal of the Acoustical Society of America, 2000, 108, 519-525.	0.5	17
23	Frequency-dependent behavior of media containing pre-strained nonlinear inclusions: Application to nonlinear acoustic metamaterials. Journal of the Acoustical Society of America, 2018, 144, 3022-3035.	0.5	17
24	Born approximation of acoustic radiation force and torque on soft objects of arbitrary shape. Journal of the Acoustical Society of America, 2019, 145, 36-44.	0.5	16
25	Acoustic radiation force on an elastic sphere in a soft elastic medium. Journal of the Acoustical Society of America, 2018, 144, 568-576.	0.5	14
26	Effective Gol'dberg number for diverging waves. Journal of the Acoustical Society of America, 2016, 140, 4419-4427.	0.5	13
27	Finite amplitude sound near cutoff in higher-order modes of a rectangular duct. Journal of the Acoustical Society of America, 1988, 84, 327-334.	0.5	12
28	Radiation damping of, and scattering from, an arbitrarily shaped bubble. Journal of the Acoustical Society of America, 2017, 142, 160-166.	0.5	12
29	Plane nonlinear shear waves in relaxing media. Journal of the Acoustical Society of America, 2018, 143, 1035-1048.	0.5	8
30	ANGULAR SPECTRUM DECOMPOSITION ANALYSIS OF SECOND HARMONIC ULTRASOUND PROPAGATION AND ITS RELATION TO TISSUE HARMONIC IMAGING. , 2007, , 155-168.		8
31	Acoustic radiation force on a compressible spheroid. Journal of the Acoustical Society of America, 2020, 148, 2403-2415.	0.5	7
32	Acoustic radiation force on a sphere without restriction to axisymmetric fields. Proceedings of Meetings on Acoustics, 2013, , .	0.3	6
33	Acoustic radiation torque on a compressible spheroid. Journal of the Acoustical Society of America, 2021, 149, 2081-2088.	0.5	6
34	Elastic softening of sandstone due to a wideband acoustic pulse. Journal of the Acoustical Society of America, 2020, 147, 1006-1014.	0.5	5
35	Born approximation of acoustic radiation force and torque on inhomogeneous objects. Journal of the Acoustical Society of America, 2021, 150, 3417-3427.	0.5	5
36	Evolution of nonlinear Rayleigh waves in a coated substrate. Journal of the Acoustical Society of America, 2004, 115, 2798-2806.	0.5	4

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37	Focused nonlinear phase-conjugate waves generated by a solid parametric amplifier. Journal of the Acoustical Society of America, 2005, 118, 3733-3736.	0.5	4
38	Overturning of nonlinear compressional and shear waves subject to power-law attenuation or relaxation. Wave Motion, 2019, 85, 18-33.	1.0	4
39	Acoustic response for nonlinear, coupled multiscale model containing subwavelength designed microstructure instabilities. Physical Review E, 2020, 101, 022215.	0.8	4
40	Acoustic radiation force on a sphere in tissue. AIP Conference Proceedings, 2012, , .	0.3	3
41	Acoustic radiation force and torque on inhomogeneous particles in the Born approximation. Proceedings of Meetings on Acoustics, 2019, , .	0.3	3
42	Acoustic radiation from an infrasonic ball-valve siren. Journal of the Acoustical Society of America, 2020, 147, 1581-1587.	0.5	3
43	Overturning of nonlinear acoustic waves in media with power-law attenuation. Proceedings of Meetings on Acoustics, 2016, , .	0.3	2
44	Simulations of nonlinear continuous wave pressure fields in FOCUS. AIP Conference Proceedings, 2017, , .	0.3	2
45	Evolution equations for nonlinear Lucassen waves. Proceedings of Meetings on Acoustics, 2019, , .	0.3	2
46	Nonlinear Effects in Sound Beams. , 0, , 249-256.		2
47	Acoustic scattering from a toroidal bubble. JASA Express Letters, 2022, 2, 036001.	0.5	2
48	Noncollinear interaction of a tone with noise. Journal of the Acoustical Society of America, 1991, 89, 583-591.	0.5	1
49	Acoustic radiation force due to arbitrary incident fields on spherical particles in soft tissue. AIP Conference Proceedings, 2015, , .	0.3	1
50	Laboratory study of linear and nonlinear elastic pulse propagation in a sandstone bar. Proceedings of Meetings on Acoustics, 2018, , .	0.3	1
51	Acoustic radiation force and torque on nonspherical scatterers in the Born approximation. Proceedings of Meetings on Acoustics, 2018, , .	0.3	1
52	Modeling of plane progressive waves in media that exhibit slow dynamics and dissipative nonlinearity. Proceedings of Meetings on Acoustics, 2019, , .	0.3	1
53	Transient solution for the directional response at the focus of a paraboloidal reflector. Proceedings of Meetings on Acoustics, 2018, , .	0.3	1
54	Early history of nonlinear acoustics. Proceedings of Meetings on Acoustics, 2019, , .	0.3	1

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55	Acoustical characterization of a portable pneumatic infrasound source. Journal of the Acoustical Society of America, 2020, 148, 3818-3826.	0.5	1
56	Additional remarks on parametric reception near a reflecting plane. Journal of the Acoustical Society of America, 1993, 93, 3507-3510.	0.5	0
57	Time-domain evolution equation for dispersive nonlinear Rayleigh waves. AIP Conference Proceedings, 2006, , .	0.3	0
58	Dolphin sonar transmissions and nonlinear effects. Proceedings of Meetings on Acoustics, 2018, , .	0.3	0
59	Transient solutions for the angular dependence of acoustical transmitters and receivers employing paraboloidal reflectors. Journal of the Acoustical Society of America, 2020, 147, 490-499.	0.5	0
60	Nonlinear response of a relaxing shear wave resonator to elliptical driving motion. Proceedings of Meetings on Acoustics, 2018, , .	0.3	0
61	Evolution equation for nonlinear Lucassen waves, with application to a threshold phenomenon. Journal of the Acoustical Society of America, 2021, 150, 3648-3663.	0.5	0
62	Nonlinear piezoelectric surface acoustic waves. Journal of the Acoustical Society of America, 2022, 151, 1829-1846.	0.5	0