

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	Acoustic scattering from a toroidal bubble. <i>JASA Express Letters</i> , 2022, 2, 036001.	0.5	2
2	Nonlinear piezoelectric surface acoustic waves. <i>Journal of the Acoustical Society of America</i> , 2022, 151, 1829-1846.	0.5	0
3	Acoustic radiation torque on a compressible spheroid. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 2081-2088.	0.5	6
4	Born approximation of acoustic radiation force and torque on inhomogeneous objects. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 3417-3427.	0.5	5
5	Evolution equation for nonlinear Lucassen waves, with application to a threshold phenomenon. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 3648-3663.	0.5	0
6	Acoustic radiation force on a compressible spheroid. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 2403-2415.	0.5	7
7	Acoustic response for nonlinear, coupled multiscale model containing subwavelength designed microstructure instabilities. <i>Physical Review E</i> , 2020, 101, 022215.	0.8	4
8	Transient solutions for the angular dependence of acoustical transmitters and receivers employing paraboloidal reflectors. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 490-499.	0.5	0
9	Acoustic radiation from an infrasonic ball-valve siren. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 1581-1587.	0.5	3
10	Elastic softening of sandstone due to a wideband acoustic pulse. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 1006-1014.	0.5	5
11	Acoustical characterization of a portable pneumatic infrasound source. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 3818-3826.	0.5	1
12	Evolution equations for nonlinear Lucassen waves. <i>Proceedings of Meetings on Acoustics</i> , 2019, , .	0.3	2
13	Modeling of plane progressive waves in media that exhibit slow dynamics and dissipative nonlinearity. <i>Proceedings of Meetings on Acoustics</i> , 2019, , .	0.3	1
14	Acoustic radiation force and torque on inhomogeneous particles in the Born approximation. <i>Proceedings of Meetings on Acoustics</i> , 2019, , .	0.3	3
15	Born approximation of acoustic radiation force and torque on soft objects of arbitrary shape. <i>Journal of the Acoustical Society of America</i> , 2019, 145, 36-44.	0.5	16
16	Overtaking of nonlinear compressional and shear waves subject to power-law attenuation or relaxation. <i>Wave Motion</i> , 2019, 85, 18-33.	1.0	4
17	Early history of nonlinear acoustics. <i>Proceedings of Meetings on Acoustics</i> , 2019, , .	0.3	1
18	Plane nonlinear shear waves in relaxing media. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 1035-1048.	0.5	8

#	ARTICLE	IF	CITATIONS
19	Laboratory study of linear and nonlinear elastic pulse propagation in a sandstone bar. Proceedings of Meetings on Acoustics, 2018, , .	0.3	1
20	Acoustic radiation force and torque on nonspherical scatterers in the Born approximation. Proceedings of Meetings on Acoustics, 2018, , .	0.3	1
21	Dolphin sonar transmissions and nonlinear effects. Proceedings of Meetings on Acoustics, 2018, , .	0.3	0
22	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
23	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
24	Nonlinear response of a relaxing shear wave resonator to elliptical driving motion. Proceedings of Meetings on Acoustics, 2018, , .	0.3	0
25	Transient solution for the directional response at the focus of a paraboloidal reflector. Proceedings of Meetings on Acoustics, 2018, , .	0.3	1
26	Simulations of nonlinear continuous wave pressure fields in FOCUS. AIP Conference Proceedings, 2017, , .	0.3	2
27	Radiation damping of, and scattering from, an arbitrarily shaped bubble. Journal of the Acoustical Society of America, 2017, 142, 160-166.	0.5	12
28	Overturning of nonlinear acoustic waves in media with power-law attenuation. Proceedings of Meetings on Acoustics, 2016, , .	0.3	2
29	Effective Gol'dberg number for diverging waves. Journal of the Acoustical Society of America, 2016, 140, 4419-4427.	0.5	13
30	Acoustic radiation force due to arbitrary incident fields on spherical particles in soft tissue. AIP Conference Proceedings, 2015, , .	0.3	1
31	Acoustic radiation force on a sphere without restriction to axisymmetric fields. Proceedings of Meetings on Acoustics, 2013, , .	0.3	6
32	Acoustic radiation force on a sphere in tissue. AIP Conference Proceedings, 2012, , .	0.3	3
33	Models of cylindrical bubble pulsation. Journal of the Acoustical Society of America, 2012, 132, 1346-1357.	0.5	26
34	ANGULAR SPECTRUM DECOMPOSITION ANALYSIS OF SECOND HARMONIC ULTRASOUND PROPAGATION AND ITS RELATION TO TISSUE HARMONIC IMAGING. , 2007, , 155-168.		8
35	Time-domain evolution equation for dispersive nonlinear Rayleigh waves. AIP Conference Proceedings, 2006, , .	0.3	0
36	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

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37	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
38	Evolution of nonlinear Rayleigh waves in a coated substrate. Journal of the Acoustical Society of America, 2004, 115, 2798-2806.	0.5	4
39	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
40	Thermal effects on acoustic streaming in standing waves. Journal of the Acoustical Society of America, 2003, 114, 3092-3101.	0.5	76
41	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
42	Nonlinear two-dimensional model for thermoacoustic engines. Journal of the Acoustical Society of America, 2002, 111, 2076.	0.5	50
43	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
44	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
45	Bessel beams of finite amplitude in absorbing fluids. Journal of the Acoustical Society of America, 2000, 108, 519-525.	0.5	17
46	Nonlinear surface acoustic waves in crystals. Journal of the Acoustical Society of America, 1999, 105, 639-651.	0.5	50
47	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
48	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
49	Time-domain modeling of finite-amplitude sound in relaxing fluids. Journal of the Acoustical Society of America, 1996, 99, 3312-3318.	0.5	127
50	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
51	Time-domain modeling of pulsed finite-amplitude sound beams. Journal of the Acoustical Society of America, 1995, 97, 906-917.	0.5	295
52	Additional remarks on parametric reception near a reflecting plane. Journal of the Acoustical Society of America, 1993, 93, 3507-3510.	0.5	0
53	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
54	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

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55	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
56	Noncollinear interaction of a tone with noise. Journal of the Acoustical Society of America, 1991, 89, 583-591.	0.5	1
57	Scattering of sound by sound from two Gaussian beams. Journal of the Acoustical Society of America, 1990, 87, 1955-1964.	0.5	20
58	On the coefficient of nonlinearity $\hat{\beta}^2$ in nonlinear acoustics. Journal of the Acoustical Society of America, 1988, 83, 74-77.	0.5	40
59	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
60	Nonlinear effects in focused sound beams. Journal of the Acoustical Society of America, 1988, 84, 1488-1496.	0.5	83
61	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
62	Nonlinear Effects in Sound Beams. , 0, , 249-256.		2