

Philip L Marston

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7505353/publications.pdf>

Version: 2024-02-01

189
papers

5,251
citations

81743

39
h-index

114278

63
g-index

313
all docs

313
docs citations

313
times ranked

1318
citing authors

#	ARTICLE	IF	CITATIONS
1	Scattering by relatively small oblate spheroidal drops of water in the rainbow region: T-matrix results and geometric interpretation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 283, 108142.	1.1	2
2	Specular-reflection contributions to static and dynamic radiation forces on circular cylinders. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 3042-3051.	0.5	5
3	Time Evolution of Bistatic Acoustic Scattering: Mechanism Loci Identification for Broadside Cylinder Near a Flat Interface. <i>IEEE Journal of Oceanic Engineering</i> , 2021, 46, 1024-1033.	2.1	2
4	Specular reflection contributions to dynamic radiation forces on highly reflecting spheres (L). <i>Journal of the Acoustical Society of America</i> , 2021, 150, 25-28.	0.5	2
5	Maxwell stress excitation of wire vibrations at difference and sum frequencies of electric currents in separate circuits. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 1808-1816.	0.5	1
6	Comment on oscillatory optical and acoustical radiation pressure. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 254, 107226.	1.1	4
7	Phase and amplitude evolution of backscattering by a sphere scanned through an acoustic vortex beam: Measured helicity projections. <i>Journal of the Acoustical Society of America</i> , 2020, 148, EL135-EL140.	0.5	7
8	Modification of the time, frequency, and sonar image domain signatures of cylinders due to a material junction. <i>Proceedings of Meetings on Acoustics</i> , 2020, , .	0.3	0
9	Scattering and radiation force dependence on properties of empty elastic spherical shells: Low-frequency phase-shift derivation. <i>Journal of the Acoustical Society of America</i> , 2019, 146, EL145-EL150.	0.5	8
10	T -matrix evaluation of three-dimensional acoustic radiation forces on nonspherical objects in Bessel beams with arbitrary order and location. <i>Physical Review E</i> , 2019, 99, 063004.	0.8	34
11	Phase-shift derivation of expansions for material and frequency dependence of progressive-wave radiation forces and backscattering by spheres. <i>Journal of the Acoustical Society of America</i> , 2019, 145, EL39-EL44.	0.5	8
12	Reversals of Acoustic Radiation Torque in Bessel Beams Using Theoretical and Numerical Implementations in Three Dimensions. <i>Physical Review Applied</i> , 2019, 11, .	1.5	30
13	Comment on "Acoustic deformation for the extraction of mechanical properties of lipid vesicle populations". <i>Physical Review E</i> , 2019, 100, 057001.	0.8	3
14	Measuring the modal shapes of elastic targets using modulated radiation pressure. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 3019-3019.	0.5	1
15	Bessel beam expansion of linear focused ultrasound. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 3076-3083.	0.5	4
16	Humblet's angular momentum decomposition applied to radiation torque on metallic spheres using the Hagen-Rubens approximation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 220, 97-105.	1.1	4
17	Observation and modeling of acoustic scattering from a rubber spherical shell. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 3036-3046.	0.5	3
18	Relationship of scattering phase shifts to special radiation force conditions for spheres in axisymmetric wave-fields. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 3042-3049.	0.5	25

#	ARTICLE	IF	CITATIONS
19	Analysis of forward scattering of an acoustical zeroth-order Bessel beam from rigid complicated (aspherical) structures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 200, 146-162.	1.1	8
20	Acoustic radiation force on a sphere in a progressive and standing zero-order quasi-Bessel-Gauss beam. <i>Ultrasonics</i> , 2017, 76, 1-9.	2.1	20
21	Maxwell's Thomson-Loschmidt reversal. <i>Nature Physics</i> , 2017, 13, 2-2.	6.5	2
22	Finite-size radiation force correction for inviscid spheres in standing waves. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 1167-1170.	0.5	10
23	Hyperbolic umbilic caustics from oblate water drops with tilted illumination: Observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 202, 147-153.	1.1	6
24	Phase-shift expansions for approximate radiation forces on solid spheres in inviscid-acoustic standing waves. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 3358-3361.	0.5	13
25	Multipole expansion of acoustical Bessel beams with arbitrary order and location. <i>Journal of the Acoustical Society of America</i> , 2017, 141, EL574-EL578.	0.5	22
26	Spectral analysis of bistatic scattering from underwater elastic cylinders and spheres. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 110-115.	0.5	15
27	Comment on "Radiation forces and torque on a rigid elliptical cylinder in acoustical plane progressive and (quasi)standing waves with arbitrary incidence" [<i>Phys. Fluids</i> 28, 077104 (2016)]. <i>Physics of Fluids</i> , 2017, 29, .	1.6	13
28	High frequency imaging and elastic effects for a solid cylinder with axis oblique relative to a nearby horizontal surface. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 1525-1536.	0.5	1
29	Unphysical consequences of negative absorbed power in linear passive scattering: Implications for radiation force and torque. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 3139-3144.	0.5	28
30	Kirchhoff approximation for backscattering from a partially exposed rigid sphere at a flat interface. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 3582-3592.	0.5	9
31	Circular synthetic aperture sonar imaging of simple objects illuminated by an evanescent wavefield. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 2839-2846.	0.5	3
32	Acoustic radiation force expressed using complex phase shifts and momentum-transfer cross sections. <i>Journal of the Acoustical Society of America</i> , 2016, 140, EL178-EL183.	0.5	31
33	James Clerk Maxwell: Life and science. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 178, 50-65.	1.1	5
34	High frequency backscattering by a solid cylinder with axis tilted relative to a nearby horizontal surface. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 470-480.	0.5	17
35	Surprises and anomalies in acoustical and optical scattering and radiation forces. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 162, 8-17.	1.1	9
36	Scattering and Acoustical and Optical Radiation Forces and Torques for Manipulation. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
37	Enhanced backscattering in water by partially exposed cylinders at free surfaces associated with an acoustic Franz wave. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 2489-2492.	0.5	10
38	Autofocusing circular synthetic aperture sonar imagery using phase corrections modeled as generalized cones. <i>Journal of the Acoustical Society of America</i> , 2014, 136, 614-622.	0.5	9
39	Fast nearfield to farfield conversion algorithm for circular synthetic aperture sonar. <i>Journal of the Acoustical Society of America</i> , 2014, 136, EL61-EL66.	0.5	19
40	Acoustic scattering from a water-filled cylindrical shell: Measurements, modeling, and interpretation. <i>Journal of the Acoustical Society of America</i> , 2014, 136, 109-121.	0.5	29
41	Acoustic radiation torque on small objects in viscous fluids and connection with viscous dissipation. <i>Journal of the Acoustical Society of America</i> , 2014, 136, 2917-2921.	0.5	55
42	Quasi-scaling of the extinction efficiency of spheres in high frequency Bessel beams. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 1668-1671.	0.5	10
43	Comment on "Anomalous wave propagation in a one-dimensional acoustic metamaterial having simultaneously negative mass density and Young's modulus" [J. Acoust. Soc. Am. 132, 2887-2895 (2012)]. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 1031-1033.	0.5	2
44	Optical theorem for acoustic non-diffracting beams and application to radiation force and torque. <i>Biomedical Optics Express</i> , 2013, 4, 1610.	1.5	39
45	Acoustic scattering from a water-filled cylindrical shell: Mode identification and interpretation via finite element and analytical models. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	0
46	Viscous contributions to low-frequency scattering, power absorption, radiation force, and radiation torque for spheres in acoustic beams. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	10
47	Measured scattering of a first-order vortex beam by a sphere: Cross-helicity and helicity-neutral near-forward scattering and helicity modulation. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	4
48	Quasi-holographic processing as an alternative to synthetic aperture sonar imaging. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	5
49	Axial radiation force exerted by general non-diffracting beams. <i>Journal of the Acoustical Society of America</i> , 2012, 131, EL329-EL335.	0.5	75
50	LOW- TO MID-FREQUENCY SCATTERING FROM ELASTIC OBJECTS ON A SAND SEA FLOOR: SIMULATION OF FREQUENCY AND ASPECT DEPENDENT STRUCTURAL ECHOES. <i>Journal of Computational Acoustics</i> , 2012, 20, 1240007.	1.0	22
51	Geometrical interpretation of negative radiation forces of acoustical Bessel beams on spheres. <i>Physical Review E</i> , 2011, 84, 035601.	0.8	145
52	Angular momentum flux of nonparaxial acoustic vortex beams and torques on axisymmetric objects. <i>Physical Review E</i> , 2011, 84, 065601.	0.8	159
53	Quasi-Gaussian beam analytical basis and comparison with an alternative approach (L). <i>Journal of the Acoustical Society of America</i> , 2011, 130, 1091-1094.	0.5	14
54	Coherent and semi-coherent processing of limited-aperture circular synthetic aperture (CSAS) data. , 2011, , .		9

#	ARTICLE	IF	CITATIONS
55	Quasi-Gaussian Bessel-beam superposition: Application to the scattering of focused waves by spheres. Journal of the Acoustical Society of America, 2011, 129, 1773-1782.	0.5	24
56	Acoustic radiation torque and the conservation of angular momentum (L). Journal of the Acoustical Society of America, 2011, 129, 1679-1680.	0.5	55
57	Acoustic quasi-holographic images of scattering by vertical cylinders from one-dimensional bistatic scans. Journal of the Acoustical Society of America, 2011, 130, 3838-3851.	0.5	16
58	Boundary effects on backscattering by a solid aluminum cylinder: Experiment and finite element model comparisons (L). Journal of the Acoustical Society of America, 2011, 130, 669-672.	0.5	14
59	Measurements and modeling of the acoustic scattering from an aluminum pipe in the free field and in contact with a sand sediment. , 2010, , .		1
60	Acoustic scattering from a solid aluminum cylinder in contact with a sand sediment: Measurements, modeling, and interpretation. Journal of the Acoustical Society of America, 2010, 127, 3356-3371.	0.5	89
61	Evolution of acoustic feature timing and imaging for different cylinder exposures and applications of reversible SAS filtering. , 2010, , .		1
62	Scattering resonances, filtering with reversible SAS processing, and applications of quantitative ray theory. , 2010, , .		12
63	Feature timing and identification for different solid cylinder exposures revealed using reversible image filtering.. Journal of the Acoustical Society of America, 2010, 128, 2461-2461.	0.5	0
64	Radiation force of a helicoidal Bessel beam on a sphere. Journal of the Acoustical Society of America, 2009, 125, 3539-3547.	0.5	143
65	Bessel beams and glory scattering: Comment on "Generation of Bessel beams using a 4-f spatial filtering system," by J. M. D. Kowalczyk, S. N. Smith, and E. B. Szarmes [Am. J. Phys.77, 229"236 (2009)]. American Journal of Physics, 2009, 77, 1084-1084.	0.3	1
66	Radiation Torques and Forces in Scattering from Spheres and Acoustical Analogues. , 2009, , .		1
67	Self-reconstruction property of fractional Bessel beams: comment. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 2181.	0.8	6
68	Backscattering by a solid aluminum cylinder near a boundary: Experiment and finite element model comparisons.. Journal of the Acoustical Society of America, 2009, 126, 2186.	0.5	0
69	Uniformly valid solution for acoustic propagation in weakly tapered circular waveguides: Liquid jet example. Journal of the Acoustical Society of America, 2008, 124, 151-160.	0.5	15
70	Kirchhoff Approximation for a Cylinder Breaking Through a Plane Surface and the Measured Scattering. IEEE Journal of Oceanic Engineering, 2008, 33, 386-396.	2.1	13
71	Evanescent Acoustic Waves From Subcritical Beam Illumination: Laboratory Measurements Near a Liquid" Liquid Interface. IEEE Journal of Oceanic Engineering, 2008, 33, 397-404.	2.1	2
72	Scattering of a Bessel beam by a sphere: II. Helicoidal case and spherical shell example. Journal of the Acoustical Society of America, 2008, 124, 2905-2910.	0.5	73

#	ARTICLE	IF	CITATIONS
73	Liquid jet response to internal modulated ultrasonic radiation pressure and stimulated drop production. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 3323.	0.5	12
74	Acoustic beam scattering and excitation of sphere resonance: Bessel beam example. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 247-252.	0.5	72
75	A long history of peristaltic perturbations. <i>Physics Today</i> , 2007, 60, 16-16.	0.3	1
76	Negative axial radiation forces on solid spheres and shells in a Bessel beam. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 3162-3165.	0.5	113
77	Maxwell and creation: Acceptance, criticism, and his anonymous publication. <i>American Journal of Physics</i> , 2007, 75, 731-740.	0.3	4
78	Scattering of a Bessel beam by a sphere. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 753-758.	0.5	115
79	Acoustic Radiation Force On Elliptical Cylinders And Spheroidal Objects In Low Frequency Standing Waves. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	22
80	Axial radiation force of a Bessel beam on a sphere and direction reversal of the force. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 3518-3524.	0.5	274
81	Enhanced damping of capillary bridge oscillations using velocity feedback. <i>Physics of Fluids</i> , 2005, 17, 032105.	1.6	7
82	Doubly focused backscattering from finite targets in an Airy caustic formed by a curved reflecting surface. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 2811-2819.	0.5	4
83	Equivalence of expressions for the acoustic radiation force on cylinders. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 3397-3399.	0.5	18
84	Control of the natural frequency of the (2,0) mode of liquid bridges using active electrostatic fields. <i>Physics of Fluids</i> , 2005, 17, 071702.	1.6	2
85	Hysteresis and mode coupling in capillary bridge oscillations: Observations. <i>Physical Review E</i> , 2005, 72, 067304.	0.8	4
86	High-Frequency Material-Dependent Scattering Processes for Tilted Truncated Cylindrical and Disk-Shaped Targets. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	1
87	Acoustic radiation force on a compressible cylinder in a standing wave. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 201-208.	0.5	74
88	Singly focused backscattering from small targets in an Airy caustic formed by a curved reflecting surface. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 2751-2758.	0.5	2
89	Manipulation of Fluid Objects with Acoustic Radiation Pressure. <i>Annals of the New York Academy of Sciences</i> , 2004, 1027, 414-434.	1.8	82
90	Active Electrostatic Control of Liquid Bridge Dynamics and Stability. <i>Annals of the New York Academy of Sciences</i> , 2004, 1027, 495-510.	1.8	2

#	ARTICLE	IF	CITATIONS
91	Negative group velocity Lamb waves on plates and applications to the scattering of sound by shells. Journal of the Acoustical Society of America, 2003, 113, 2659-2662.	0.5	53
92	Observation of the enhanced backscattering of light by the end of a tilted dielectric cylinder owing to the caustic merging transition. Applied Optics, 2003, 42, 412.	2.1	4
93	Leaky helical flexural wave backscattering contributions from tilted water-filled cylindrical shells. Journal of the Acoustical Society of America, 2003, 113, 309-312.	0.5	2
94	Meridional ray backscattering enhancements for empty truncated tilted cylindrical shells: Measurements, ray model, and effects of a mode threshold. Journal of the Acoustical Society of America, 2002, 112, 1318-1326.	0.5	10
95	Backscattering of transients by tilted truncated cylindrical shells: Time-frequency identification of ray contributions from measurements. Journal of the Acoustical Society of America, 2002, 111, 1289-1294.	0.5	28
96	Leaky helical flexural wave backscattering contributions from tilted cylindrical shells in water: Observations and modeling. Journal of the Acoustical Society of America, 2002, 112, 528-536.	0.5	17
97	Active electrostatic stabilization of liquid bridges in low gravity. Journal of Fluid Mechanics, 2002, 457, 285-294.	1.4	20
98	Backscattering enhancements associated with antisymmetric Lamb waves confined to the edge of a circular plate: Direct and holographic observations. Acoustics Research Letters Online: ARLO, 2002, 3, 101-106.	0.7	10
99	Robert E. Apfel (1943–2002). Nature Materials, 2002, 1, 155-155.	13.3	1
100	STABILIZATION OF AN ELECTRICALLY CONDUCTING CAPILLARY BRIDGE FAR BEYOND THE RAYLEIGH-PLATEAU LIMIT USING FEEDBACK CONTROL OF ELECTROSTATIC STRESSES. , 2002, , 272-272.		1
101	STABILIZATION OF CAPILLARY BRIDGES IN AIR FAR BEYOND THE RAYLEIGH-PLATEAU LIMIT IN LOW GRAVITY USING ACOUSTIC RADIATION PRESSURE. , 2002, , 273-273.		0
102	Backscattering enhancements associated with the excitation of symmetric Lamb waves on a circular plate: direct and holographic observations. Acoustics Research Letters Online: ARLO, 2001, 2, 55-60.	0.7	12
103	Leaky helical flexural wave scattering contributions from tilted cylindrical shells: Ray theory and wave-vector anisotropy. Journal of the Acoustical Society of America, 2001, 110, 1764-1769.	0.5	14
104	Passive Stabilization of Capillary Bridges in Air with Acoustic Radiation Pressure. Physical Review Letters, 2001, 86, 2293-2296.	2.9	44
105	Generalized optical theorem for scatterers having inversion symmetry: Applications to acoustic backscattering. Journal of the Acoustical Society of America, 2001, 109, 1291-1295.	0.5	32
106	Stabilization of electrically conducting capillary bridges using feedback control of radial electrostatic stresses and the shapes of extended bridges. Physics of Fluids, 2000, 12, 986-995.	1.6	28
107	Backscattering enhancements associated with subsonic Rayleigh waves on polymer spheres in water: Observation and modeling for acrylic spheres. Journal of the Acoustical Society of America, 2000, 107, 1930-1936.	0.5	44
108	Backscattering enhancements from Rayleigh waves on the flat face of a tilted solid cylinder in water. Journal of the Acoustical Society of America, 2000, 107, 112-117.	0.5	20

#	ARTICLE	IF	CITATIONS
109	Backscattering enhancements for tilted solid plastic cylinders in water due to the caustic merging transition: Observations and theory. <i>Journal of the Acoustical Society of America</i> , 2000, 107, 689-698.	0.5	11
110	Backscattering enhancements due to reflection of meridional leaky Rayleigh waves at the blunt truncation of a tilted solid cylinder in water: Observations and theory. <i>Journal of the Acoustical Society of America</i> , 1999, 106, 1673-1680.	0.5	29
111	Meridional ray contributions to scattering by tilted cylindrical shells above the coincidence frequency: ray theory and computations. <i>Journal of the Acoustical Society of America</i> , 1999, 106, 2595-2600.	0.5	21
112	Magnetic excitation and acoustical detection of torsional and quasi-flexural modes of spherical shells in water. <i>Journal of the Acoustical Society of America</i> , 1999, 106, 3340-3347.	0.5	11
113	Catastrophe optics of spheroidal drops and generalized rainbows. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1999, 63, 341-351.	1.1	19
114	Backscattering enhancements due to retroreflection of ultrasonic leaky Rayleigh waves at corners of solid elastic cubes in water. <i>Journal of the Acoustical Society of America</i> , 1999, 105, 700-710.	0.5	11
115	An acoustical helicoidal wave transducer with applications for the alignment of ultrasonic and underwater systems. <i>Journal of the Acoustical Society of America</i> , 1999, 106, 3313-3316.	0.5	266
116	A time-resolved glimpse of the terahertz glory. <i>Nature</i> , 1998, 391, 841-842.	13.7	5
117	Generalized tertiary rainbow of slightly oblate drops: observations with laser illumination. <i>Applied Optics</i> , 1998, 37, 1520.	2.1	23
118	Scattering observations for tilted transparent fibers: evolution of Airy caustics with cylinder tilt and the caustic merging transition. <i>Applied Optics</i> , 1998, 37, 1534.	2.1	16
119	Descartes glare points in scattering by icicles: color photographs and a tilted dielectric cylinder model of caustic and glare-point evolution. <i>Applied Optics</i> , 1998, 37, 1551.	2.1	11
120	Resonator frequency shift due to ultrasonically induced microparticle migration in an aqueous suspension: Observations and model for the maximum frequency shift. <i>Journal of the Acoustical Society of America</i> , 1998, 103, 3290-3300.	0.5	25
121	High-frequency backscattering enhancements by thick finite cylindrical shells in water at oblique incidence: Experiments, interpretation, and calculations. <i>Journal of the Acoustical Society of America</i> , 1998, 103, 785-794.	0.5	65
122	Background contributions and coupling coefficients for backscattering by thick shells. <i>Journal of the Acoustical Society of America</i> , 1997, 101, 3792-3797.	0.5	5
123	Approximate meridional leaky ray amplitudes for tilted cylinders: End-backscattering enhancements and comparisons with exact theory for infinite solid cylinders. <i>Journal of the Acoustical Society of America</i> , 1997, 102, 358-369.	0.5	22
124	The effects of a soluble surfactant on quadrupole shape oscillations and dissolution of air bubbles in water. <i>Journal of the Acoustical Society of America</i> , 1997, 102, 3372-3377.	0.5	19
125	Spatial approximation of leaky wave surface amplitudes for three-dimensional high-frequency scattering: Fresnel patches and application to edge-excited and regular helical waves on cylinders. <i>Journal of the Acoustical Society of America</i> , 1997, 102, 1628-1638.	0.5	12
126	Stabilization of a cylindrical capillary bridge far beyond the Rayleigh "Plateau limit using acoustic radiation pressure and active feedback. <i>Journal of Fluid Mechanics</i> , 1997, 351, 345-357.	1.4	62

#	ARTICLE	IF	CITATIONS
127	Wide bandwidth and low-frequency target response measurements with a large PVDF sheet source outside the laboratory. <i>Journal of the Acoustical Society of America</i> , 1997, 101, 3198-3198.	0.5	0
128	Backscattering enhancement for tilted plastic cylinders in water due to the caustic-emerging transition: Ultrasonic observations. <i>Journal of the Acoustical Society of America</i> , 1997, 102, 3088-3088.	0.5	0
129	Capillary bridge modes driven with modulated ultrasonic radiation pressure. <i>Physics of Fluids</i> , 1996, 8, 3-5.	1.6	59
130	Variable phase coupling coefficient for leaky waves on spheres and cylinders from resonance scattering theory. <i>Wave Motion</i> , 1995, 22, 65-74.	1.0	9
131	Energy branching of a subsonic flexural wave on a plate at an air-water interface. I. Observation of the wave field near the interface and near the plate. <i>Journal of the Acoustical Society of America</i> , 1995, 97, 1389-1398.	0.5	11
132	Equilibrium shape of an acoustically levitated bubble driven above resonance. <i>Journal of the Acoustical Society of America</i> , 1995, 97, 2138-2143.	0.5	21
133	Traveling-wave decomposition of surface displacements associated with scattering by a cylindrical shell: Numerical evaluation displaying guided forward and backward wave properties. <i>Journal of the Acoustical Society of America</i> , 1995, 98, 3501-3507.	0.5	16
134	Ultrasonic four-wave mixing mediated by an aqueous suspension of microspheres: Theoretical steady-state properties. <i>Journal of the Acoustical Society of America</i> , 1995, 98, 1731-1741.	0.5	5
135	Measurement and interpretation of the impulse response for backscattering by a thin spherical shell using a broad-bandwidth source that is nearly acoustically transparent. <i>Journal of the Acoustical Society of America</i> , 1995, 97, 2699-2708.	0.5	25
136	Leaky waves on weakly curved scatterers. II. Convolution formulation for two-dimensional high-frequency scattering. <i>Journal of the Acoustical Society of America</i> , 1995, 97, 34-41.	0.5	14
137	Free decay of shape oscillations of bubbles acoustically trapped in water and sea water. <i>Journal of Fluid Mechanics</i> , 1995, 300, 149-167.	1.4	51
138	Leaky waves on curved scatterers. I. Fresnel width of coupling regions and elliptical Fresnel patches. <i>Journal of the Acoustical Society of America</i> , 1994, 96, 1893-1898.	0.5	8
139	Acoustic radiation force on a bubble driven above resonance. <i>Journal of the Acoustical Society of America</i> , 1994, 96, 3096-3099.	0.5	33
140	Enhancement of the backscattering of high-frequency tone bursts by thin spherical shells associated with a backwards wave: Observations and ray approximation. <i>Journal of the Acoustical Society of America</i> , 1994, 96, 3704-3714.	0.5	33
141	Generalized rainbows and unfolded glories of oblate drops: organization for multiple internal reflections and extension of cusps into Alexander's dark band. <i>Applied Optics</i> , 1994, 33, 4702.	2.1	26
142	Travel time surface of a transverse cusp caustic produced by reflection of acoustical transients from a curved metal surface in water. <i>Journal of the Acoustical Society of America</i> , 1994, 95, 650-660.	0.5	4
143	Response of bubbles to ultrasonic radiation pressure: Dynamics in low gravity and shape oscillations. <i>Fluid Mechanics and Its Applications</i> , 1994, , 343-353.	0.1	12
144	Electromagnetic acoustic wave transducer for the generation of acoustic evanescent waves on membranes and optical and capacitor wave-number selective detectors. <i>Journal of the Acoustical Society of America</i> , 1993, 93, 2221-2227.	0.5	9

#	ARTICLE	IF	CITATIONS
145	Observation of the midfrequency enhancement of tone bursts backscattered by a thin spherical shell in water near the coincidence frequency. Journal of the Acoustical Society of America, 1993, 93, 224-230.	0.5	28
146	Optical detection of transient bubble oscillations associated with the underwater noise of rain. Journal of the Acoustical Society of America, 1993, 94, 2788-2792.	0.5	13
147	Diffraction of evanescent wave tone bursts on a membrane in air. Journal of the Acoustical Society of America, 1993, 93, 1192-1195.	0.5	3
148	Shape oscillations of bubbles in water driven by modulated ultrasonic radiation pressure: Observations and detection with scattered laser light. Journal of the Acoustical Society of America, 1993, 93, 706-713.	0.5	41
149	Backscattering of chirped bursts by a thin spherical shell near the coincidence frequency. Journal of the Acoustical Society of America, 1993, 93, 2700-2706.	0.5	10
150	Transverse cusp diffraction catastrophes produced by the reflection of ultrasonic tone bursts from a curved surface in water: Observations. Journal of the Acoustical Society of America, 1992, 92, 2869-2877.	0.5	8
151	Geometrical and Catastrophe Optics Methods in Scattering. Physical Acoustics, 1992, , 1-234.	0.1	56
152	Ray synthesis of the form function for backscattering from an elastic spherical shell: Leaky Lamb waves and longitudinal resonances. Journal of the Acoustical Society of America, 1991, 89, 2545-2558.	0.5	28
153	Ray synthesis of Lamb wave contributions to the total scattering cross section for an elastic spherical shell. Journal of the Acoustical Society of America, 1990, 88, 1103-1113.	0.5	53
154	Longitudinal resonances in the form function for backscattering from a spherical shell: Fluid shell case. Journal of the Acoustical Society of America, 1990, 88, 1114-1122.	0.5	11
155	Phase velocity of Lamb waves on a spherical shell: Approximate dependence on curvature from kinematics. Journal of the Acoustical Society of America, 1989, 85, 2663-2665.	0.5	14
156	Observations and modeling of the backscattering of short tone bursts from a spherical shell: Lamb wave echoes, glory, and axial reverberations. Journal of the Acoustical Society of America, 1989, 85, 1014-1028.	0.5	72
157	Unfolding axial caustics of glory scattering with harmonic angular perturbations of toroidal wave fronts. Journal of the Acoustical Society of America, 1989, 85, 1427-1440.	0.5	22
158	GTD synthesis of resonance amplitudes in the backscattering from an elastic spherical shell. Journal of the Acoustical Society of America, 1989, 85, S150-S150.	0.5	0
159	Optical levitation of bubbles in water by the radiation pressure of a laser beam: An acoustically quiet levitator. Journal of the Acoustical Society of America, 1988, 83, 970-975.	0.5	37
160	GTD for backscattering from elastic spheres and cylinders in water and the coupling of surface elastic waves with the acoustic field. Journal of the Acoustical Society of America, 1988, 83, 25-37.	0.5	79
161	Optically Stimulated Sound From Oil Drops And Gas Bubbles In Water: Thermal And Radiation Pressure Optoacoustic Mechanisms. , 1988, 0925, 326.		4
162	Transverse cusp diffraction catastrophes: Some pertinent wave fronts and a Pearcey approximation to the wave field. Journal of the Acoustical Society of America, 1987, 81, 226-232.	0.5	26

#	ARTICLE	IF	CITATIONS
163	Synthesis of backscattering from an elastic sphere using the Sommerfeldâ€“Watson transformation and giving a Fabryâ€“Perot analysis of resonances. Journal of the Acoustical Society of America, 1986, 79, 1702-1708.	0.5	46
164	Ultrasonically stimulated low-frequency oscillation and breakup of immiscible liquid drops: Photographs. Physics of Fluids, 1985, 28, 1233.	1.4	28
165	Backscattering from an elastic sphere: Sommerfeldâ€“Watson transformation and experimental confirmation. Journal of the Acoustical Society of America, 1985, 78, 1093-1102.	0.5	51
166	Axially focused (glory) scattering due to surface waves generated on spheres: Model and experimental confirmation using tungsten carbide spheres. Journal of the Acoustical Society of America, 1985, 78, 722-728.	0.5	30
167	Cusp diffraction catastrophe from spheroids: generalized rainbows and inverse scattering. Optics Letters, 1985, 10, 588.	1.7	58
168	Halfâ€“order derivative of a sineâ€“wave burst: Applications to twoâ€“dimensional radiation, photoacoustics, and focused scattering from spheres and a torus. Journal of the Acoustical Society of America, 1984, 76, 291-295.	0.5	5
169	Mixedâ€“mode acoustical glory scattering from a large elastic sphere: Model and experimental verification. Journal of the Acoustical Society of America, 1984, 76, 1555-1563.	0.5	5
170	Hyperbolic umbilic diffraction catastrophe and rainbow scattering from spheroidal drops. Nature, 1984, 312, 529-531.	13.7	85
171	Radiation torque on a sphere caused by a circularly-polarized electromagnetic wave. Physical Review A, 1984, 30, 2508-2516.	1.0	121
172	Light scattering by bubbles in liquids: comments and application of results to circularly polarized incident light. Flow, Turbulence and Combustion, 1983, 40, 3-5.	0.2	2
173	Observation of the acoustic glory: Highâ€“frequency backscattering from an elastic sphere. Journal of the Acoustical Society of America, 1983, 74, 605-618.	0.5	10
174	Gloryâ€“and rainbowâ€“enhanced acoustic backscattering from fluid spheres: Models for diffracted axial focusing. Journal of the Acoustical Society of America, 1983, 73, 1464-1475.	0.5	22
175	Light scattering by bubbles in liquids: Mie theory, physical-optics approximations, and experiments. Flow, Turbulence and Combustion, 1982, 38, 373-383.	0.2	43
176	Quadrupole projection of the radiation pressure on a compressible sphere. Journal of the Acoustical Society of America, 1981, 69, 1499-1501.	0.5	49
177	Glory in Optical Backscattering from Air Bubbles. Physical Review Letters, 1981, 47, 913-916.	2.9	30
178	Acoustic scattering from fluid spheres: Diffraction and interference near the critical scattering angle. Journal of the Acoustical Society of America, 1981, 70, 1488-1495.	0.5	5
179	Shape oscillation and static deformation of drops and bubbles driven by modulated radiation stressesâ€“Theory. Journal of the Acoustical Society of America, 1980, 67, 15-26.	0.5	166
180	Quadrupole resonance of drops driven by modulated acoustic radiation pressureâ€“Experimental properties. Journal of the Acoustical Society of America, 1980, 67, 27-37.	0.5	78

#	ARTICLE	IF	CITATIONS
181	Rainbow phenomena and the detection of nonsphericity in drops. <i>Applied Optics</i> , 1980, 19, 680.	2.1	45
182	Evaporation–condensation resonance frequency of oscillating vapor bubbles. <i>Journal of the Acoustical Society of America</i> , 1979, 66, 1516-1521.	0.5	40
183	Acoustically forced shape oscillation of hydrocarbon drops levitated in water. <i>Journal of Colloid and Interface Science</i> , 1979, 68, 280-286.	5.0	49
184	Comments on the interpretation of hypersonic sound velocity data in supercooled water. <i>Journal of Chemical Physics</i> , 1978, 68, 2997.	1.2	2
185	Versatile resonance–tracking circuit for acoustic levitation experiments. <i>Review of Scientific Instruments</i> , 1978, 49, 224-226.	0.6	6
186	Stable microscopic bubbles in helium I and evaporation–condensation resonance. <i>Journal of the Acoustical Society of America</i> , 1978, 64, 319-321.	0.5	11
187	Evidence of a Large Superfluid Vortex in He4. <i>Physical Review Letters</i> , 1977, 39, 1208-1211.	2.9	27
188	Tensile strength and visible ultrasonic cavitation of superfluid4He. <i>Journal of Low Temperature Physics</i> , 1976, 25, 383-407.	0.6	41
189	Quantitative Ray Methods for Scattering. , 0, , 483-492.		7