

Andrew N Norris

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204
papers

5,994
citations

39
h-index

69
g-index

234
ext. papers

6,868
ext. citations

2.9
avg, IF

6.44
L-index

#	Paper	IF	Citations
204	A differential scheme for the effective moduli of composites. <i>Mechanics of Materials</i> , 1985 , 4, 1-16	3.3	546
203	Acoustic cloaking theory. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008 , 464, 2411-2434	2.4	416
202	Low-frequency dispersion and attenuation in partially saturated rocks. <i>Journal of the Acoustical Society of America</i> , 1993 , 94, 359-370	2.2	190
201	Elastic cloaking theory. <i>Wave Motion</i> , 2011 , 48, 525-538	1.8	165
200	The Closest Elastic Tensor of Arbitrary Symmetry to an Elasticity Tensor of Lower Symmetry. <i>Journal of Elasticity</i> , 2006 , 85, 215-263	1.5	154
199	Acoustic metafluids. <i>Journal of the Acoustical Society of America</i> , 2009 , 125, 839-49	2.2	150
198	Particle granular temperature in gas fluidized beds. <i>Powder Technology</i> , 1996 , 87, 211-232	5.2	137
197	Modulated phononic crystals: Non-reciprocal wave propagation and Willis materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 101, 10-29	5	132
196	Radiation from a point source and scattering theory in a fluid-saturated porous solid. <i>Journal of the Acoustical Society of America</i> , 1985 , 77, 2012-2023	2.2	131
195	Scattering of flexural waves on thin plates. <i>Journal of Sound and Vibration</i> , 1995 , 181, 115-125	3.9	125
194	A generalized differential effective medium theory. <i>Journal of the Mechanics and Physics of Solids</i> , 1985 , 33, 525-543	5	111
193	Nonreciprocity in acoustic and elastic materials. <i>Nature Reviews Materials</i> , 2020 , 5, 667-685	73.3	92
192	Effective-medium theories for two-phase dielectric media. <i>Journal of Applied Physics</i> , 1985 , 57, 1990-1996	5	91
191	On the correspondence between poroelasticity and thermoelasticity. <i>Journal of Applied Physics</i> , 1992 , 71, 1138-1141	2.5	83
190	Analytical formulation of three-dimensional dynamic homogenization for periodic elastic systems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 1629-1651	2.4	81
189	Poisson's ratio in cubic materials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006 , 462, 3385-3405	2.4	81
188	Borehole flexural modes in anisotropic formations. <i>Geophysics</i> , 1994 , 59, 1037-1052	3.1	79

187	Acoustic radiation from a circular pipe with an infinite flange. <i>Journal of Sound and Vibration</i> , 1989 , 135, 85-93	3.9	74
186	Flexural wave propagation and scattering on thin plates using Mindlin theory. <i>Wave Motion</i> , 1997 , 26, 1-12	1.8	68
185	Negative refraction of acoustic waves using a foam-like metallic structure. <i>Applied Physics Letters</i> , 2013 , 102, 144103	3.4	63
184	Approximation formulae for the acoustic radiation impedance of a cylindrical pipe. <i>Journal of Sound and Vibration</i> , 2009 , 322, 255-263	3.9	62
183	Elastic metasurfaces for splitting SV- and P-waves in elastic solids. <i>Journal of Applied Physics</i> , 2018 , 123, 091701	2.5	61
182	Special transformations for pentamode acoustic cloaking. <i>Journal of the Acoustical Society of America</i> , 2012 , 132, 2932-41	2.2	60
181	The Malyuzhinets theory for scattering from wedge boundaries: a review. <i>Wave Motion</i> , 1999 , 29, 313-340	4.0	58
180	Hyperelastic cloaking theory: transformation elasticity with pre-stressed solids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 2881-2903	2.4	56
179	Employing pre-stress to generate finite cloaks for antiplane elastic waves. <i>Applied Physics Letters</i> , 2012 , 100, 171907	3.4	56
178	Acoustoelasticity of solid/fluid composite systems. <i>Geophysical Journal International</i> , 1994 , 118, 439-446	2.6	56
177	Stoneley-wave attenuation and dispersion in permeable formations. <i>Geophysics</i> , 1989 , 54, 330-341	3.1	55
176	Broadband focusing of underwater sound using a transparent pentamode lens. <i>Journal of the Acoustical Society of America</i> , 2017 , 141, 4408	2.2	53
175	The isotropic material closest to a given anisotropic material. <i>Journal of Mechanics of Materials and Structures</i> , 2006 , 1, 223-238	1.2	51
174	A theory of pulse propagation in anisotropic elastic solids. <i>Wave Motion</i> , 1987 , 9, 509-532	1.8	51
173	Shear wave scattering from a debonded fibre. <i>Journal of the Mechanics and Physics of Solids</i> , 1991 , 39, 273-294	5	50
172	Weak elastic anisotropy and the tube wave. <i>Geophysics</i> , 1993 , 58, 1091-1098	3.1	49
171	Comment on [Method to analyze electromechanical stability of dielectric elastomers][Appl. Phys. Lett. 91, 061921 (2007)]. <i>Applied Physics Letters</i> , 2008 , 92, 026101	3.4	48
170	Flexural edge waves and comments on "A new bending wave solution for the classical plate equation". <i>Journal of the Acoustical Society of America</i> , 2000 , 107, 1781-5	2.2	45

169	Nonreciprocal Wave Propagation in a Continuum-Based Metamaterial with Space-Time Modulated Resonators. <i>Physical Review Applied</i> , 2019 , 11,	4.3	44
168	Flexural Edge Waves. <i>Journal of Sound and Vibration</i> , 1994 , 171, 571-573	3.9	44
167	Third-order elastic constants for an inviscid fluid. <i>Journal of the Acoustical Society of America</i> , 1993 , 94, 3014-3017	2.2	40
166	ON THE ACOUSTIC DETERMINATION OF THE ELASTIC MODULI OF ANISOTROPIC SOLIDS AND ACOUSTIC CONDITIONS FOR THE EXISTENCE OF SYMMETRY PLANES. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 1989 , 42, 413-426	1	40
165	Effective wavenumbers and reflection coefficients for an elastic medium containing random configurations of cylindrical scatterers. <i>Wave Motion</i> , 2010 , 47, 183-197	1.8	37
164	Observation of bending wave localization and quasi mobility edge in two dimensions. <i>Physical Review Letters</i> , 1992 , 69, 3080-3083	7.4	37
163	Focusing, refraction, and asymmetric transmission of elastic waves in solid metamaterials with aligned parallel gaps. <i>Journal of the Acoustical Society of America</i> , 2016 , 139, 3386	2.2	37
162	Effective Willis constitutive equations for periodically stratified anisotropic elastic media. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 1749-1769 ^{2.4}		36
161	Effective wave numbers for thermo-viscoelastic media containing random configurations of spherical scatterers. <i>Journal of the Acoustical Society of America</i> , 2012 , 131, 1113-20	2.2	36
160	Elastic moduli approximation of higher symmetry for the acoustical properties of an anisotropic material. <i>Journal of the Acoustical Society of America</i> , 2006 , 119, 2114-21	2.2	36
159	ELASTIC WAVE DIFFRACTION BY A SEMI-INFINITE CRACK IN A TRANSVERSELY ISOTROPIC MATERIAL. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 1984 , 37, 565-580	1	36
158	Cytotoxic sesquiterpene lactones from <i>Vernonia pachyclada</i> from the Madagascar rainforest. <i>Journal of Natural Products</i> , 2005 , 68, 1371-4	4.9	35
157	The speed of a wave along a fluid/solid interface in the presence of anisotropy and prestress. <i>Journal of the Acoustical Society of America</i> , 1995 , 98, 1147-1154	2.2	34
156	Propagation of plane waves in a pre-stressed elastic medium. <i>Journal of the Acoustical Society of America</i> , 1983 , 74, 1642-1643	2.2	33
155	Mechanics of elastic networks. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20140522	2.4	32
154	Acoustic coupling to membrane waves on elastic shells. <i>Journal of the Acoustical Society of America</i> , 1994 , 95, 1809-1829	2.2	32
153	Exact complex source representations of time-harmonic radiation. <i>Wave Motion</i> , 1997 , 25, 127-141	1.8	30
152	Wave Impedance Matrices for Cylindrically Anisotropic Radially Inhomogeneous Elastic Solids. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2010 , 63, 401-435	1	29

151	Cytotoxic diterpenes from <i>Cassipourea madagascariensis</i> from the Madagascar rainforest. <i>Journal of Natural Products</i> , 2006 , 69, 287-9	4.9	29
150	On the existence of flexural edge waves on thin orthotropic plates. <i>Journal of the Acoustical Society of America</i> , 2002 , 112, 1756-65	2.2	29
149	Symmetry conditions for third order elastic moduli and implications in nonlinear wave theory. <i>Journal of Elasticity</i> , 1991 , 25, 247-257	1.5	29
148	Cytotoxic flavanones of <i>Schizolaena hystrix</i> from the Madagascar rainforest. <i>Journal of Natural Products</i> , 2005 , 68, 417-9	4.9	26
147	Source amplitudes for active exterior cloaking. <i>Inverse Problems</i> , 2012 , 28, 105002	2.3	25
146	Thermoelastic relaxation in elastic structures, with applications to thin plates. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2005 , 58, 143-163	1	25
145	A direct inverse scattering method for imaging obstacles with unknown surface conditions. <i>IMA Journal of Applied Mathematics</i> , 1998 , 61, 267-290	1	25
144	Far-field analysis of the Malyuzhinets solution for plane and surface waves diffraction by an impedance wedge. <i>Wave Motion</i> , 1999 , 30, 69-89	1.8	25
143	ATTENUATION OF WAVES IN PLATES AND BARS USING A GRADED IMPEDANCE INTERFACE AT EDGES. <i>Journal of Sound and Vibration</i> , 1996 , 196, 107-127	3.9	25
142	Analytical extension of Finite Element solution for computing the nonlinear far field of ultrasonic waves scattered by a closed crack. <i>Wave Motion</i> , 2016 , 66, 132-146	1.8	24
141	Non-reciprocal flexural wave propagation in a modulated metabeam. <i>Extreme Mechanics Letters</i> , 2017 , 15, 97-102	3.9	24
140	Dynamics of thermoelastic Thin Plates: A Comparison of Four Theories. <i>Journal of Thermal Stresses</i> , 2006 , 29, 169-195	2.2	24
139	Flexural waves on narrow plates. <i>Journal of the Acoustical Society of America</i> , 2003 , 113, 2647-58	2.2	24
138	The mechanical properties of platelet reinforced composites. <i>International Journal of Solids and Structures</i> , 1990 , 26, 663-674	3.1	24
137	Back reflection of ultrasonic waves from a liquid-solid interface. <i>Journal of the Acoustical Society of America</i> , 1983 , 73, 427-434	2.2	24
136	Multiple scattering by cylinders immersed in fluid: high order approximations for the effective wavenumbers. <i>Journal of the Acoustical Society of America</i> , 2011 , 129, 104-13	2.2	22
135	Nonlinear shear wave interaction at a frictional interface: energy dissipation and generation of harmonics. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 1820-8	2.2	22
134	Optimal orientation of anisotropic solids. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2006 , 59, 29-53	1	22

133	Extreme values of Poisson's ratio and other engineering moduli in anisotropic materials. <i>Journal of Mechanics of Materials and Structures</i> , 2006 , 1, 793-812	1.2	22
132	Active elastodynamic cloaking. <i>Mathematics and Mechanics of Solids</i> , 2014 , 19, 603-625	2.3	21
131	Elastodynamics of radially inhomogeneous spherically anisotropic elastic materials in the Stroh formalism. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 467-484	2.4	21
130	Scattering of elastic waves by spherical inclusions with applications to low frequency wave propagation in composites. <i>International Journal of Engineering Science</i> , 1986 , 24, 1271-1282	5.7	21
129	Inverse Grating Problem: Efficient Design of Anomalous Flexural Wave Reflectors and Refractors. <i>Physical Review Applied</i> , 2019 , 11,	4.3	21
128	Active cloaking of flexural waves in thin plates. <i>Journal of Sound and Vibration</i> , 2015 , 356, 1-19	3.9	20
127	Acoustic metafluids made from three acoustic fluids. <i>Journal of the Acoustical Society of America</i> , 2010 , 128, 1606-16	2.2	20
126	Exact complex source representations of transient radiation. <i>Wave Motion</i> , 1997 , 26, 101-115	1.8	20
125	Elastic Helmholtz resonators. <i>Journal of the Acoustical Society of America</i> , 1993 , 93, 617-630	2.2	20
124	Elastic wave scattering by rectangular cracks. <i>International Journal of Solids and Structures</i> , 1992 , 29, 1549-1565	3.1	20
123	Acoustic scattering by baffled membranes. <i>Journal of the Acoustical Society of America</i> , 1984 , 75, 685-694.	4.2	20
122	On the existence of flexural edge waves on submerged elastic plates. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2000 , 456, 1559-1582	2.4	19
121	Stoneley and flexural modes in pressurized boreholes. <i>Journal of Geophysical Research</i> , 1995 , 100, 22375-22381.	4.9	19
120	Longitudinal wave scattering from a partially bonded fiber. <i>Wave Motion</i> , 1992 , 15, 43-59	1.8	19
119	The energy of a growing elastic surface. <i>International Journal of Solids and Structures</i> , 1998 , 35, 5237-5252.	3.1	17
118	Acoustic axes in elasticity. <i>Wave Motion</i> , 2004 , 40, 315-328	1.8	17
117	Waves in stratified viscoelastic media with microstructure. <i>Journal of the Acoustical Society of America</i> , 1993 , 94, 2884-2894	2.2	17
116	Retrieval method for the bianisotropic polarizability tensor of Willis acoustic scatterers. <i>Physical Review B</i> , 2018 , 98,	3.3	17

115	Resonant acoustic scattering from solid targets. <i>Journal of the Acoustical Society of America</i> , 1990 , 88, 505-514	2.2	16
114	Acoustic pulse scattering by baffled membranes. <i>Journal of the Acoustical Society of America</i> , 1986 , 79, 1-8	2.2	16
113	Experimental Realization of Acoustic Bianisotropic Gratings. <i>Physical Review Applied</i> , 2019 , 11,	4.3	15
112	Cytotoxic and other compounds from <i>Didymochlaena truncatula</i> from the Madagascar rain forest. <i>Journal of Natural Products</i> , 2006 , 69, 284-6	4.9	15
111	Acoustoelasticity theory and applications for fluid-saturated porous media. <i>Journal of the Acoustical Society of America</i> , 1996 , 100, 1368-1374	2.2	14
110	Waves in Periodically Layered Media: A Comparison of Two Theories. <i>SIAM Journal on Applied Mathematics</i> , 1993 , 53, 1195-1209	1.8	14
109	Nonlinear tube waves. <i>Journal of the Acoustical Society of America</i> , 1994 , 96, 1829-1843	2.2	14
108	CONDITIONS UNDER WHICH THE SLOWNESS SURFACE OF AN ANISOTROPIC ELASTIC MATERIAL IS THE UNION OF ALIGNED ELLIPSOIDS. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 1990 , 43, 589-603	1	14
107	Acoustic integrated extinction. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20150008	2.4	13
106	Acoustic scattering from an infinitely long cylindrical shell with an internal mass attached by multiple axisymmetrically distributed stiffeners. <i>Journal of Sound and Vibration</i> , 2015 , 338, 134-153	3.9	13
105	Tunable cylindrical shell as an element in acoustic metamaterial. <i>Journal of the Acoustical Society of America</i> , 2014 , 136, 1601-9	2.2	13
104	BENDING-WAVE DIFFRACTION FROM STRIPS AND CRACKS ON THIN PLATES. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 1994 , 47, 607-627	1	13
103	Dynamic Stress on a Partially Bonded Fiber. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1991 , 58, 404-409	2.7	13
102	An Optical Theorem for acoustic scattering by baffled flexible surfaces. <i>Journal of Sound and Vibration</i> , 1985 , 99, 301-307	3.9	13
101	Acoustic multiple scattering using recursive algorithms. <i>Journal of Computational Physics</i> , 2015 , 299, 787-803	4.1	12
100	Physical Observation of a Robust Acoustic Pumping in Waveguides with Dynamic Boundary. <i>Physical Review Letters</i> , 2020 , 125, 253901	7.4	12
99	Loss compensation in time-dependent elastic metamaterials. <i>Physical Review B</i> , 2018 , 97,	3.3	12
98	Euler-Rodrigues and Cayley Formulae for Rotation of Elasticity Tensors. <i>Mathematics and Mechanics of Solids</i> , 2008 , 13, 465-498	2.3	12

97	The matrix sign function for solving surface wave problems in homogeneous and laterally periodic elastic half-spaces. <i>Wave Motion</i> , 2013 , 50, 1239-1250	1.8	11
96	Evaluation of the effective speed of sound in phononic crystals by the monodromy matrix method (L). <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 3553-7	2.2	11
95	Cytotoxic compounds of <i>Schizolaena hystrix</i> from the Madagascar rainforest. <i>Planta Medica</i> , 2006 , 72, 1235-8	3.1	11
94	Impedance of a sphere oscillating in an elastic medium with and without slip. <i>Journal of the Acoustical Society of America</i> , 2006 , 119, 2062-6	2.2	11
93	Acoustic wave scattering from thin shell structures. <i>Journal of the Acoustical Society of America</i> , 1992 , 92, 3320-3336	2.2	11
92	The tube wave as a Biot slow wave. <i>Geophysics</i> , 1987 , 52, 694-696	3.1	11
91	A high transmission broadband gradient index lens using elastic shell acoustic metamaterial elements. <i>Journal of the Acoustical Society of America</i> , 2016 , 139, 3357	2.2	11
90	Stable methods to solve the impedance matrix for radially inhomogeneous cylindrically anisotropic structures. <i>Journal of Sound and Vibration</i> , 2013 , 332, 2520-2531	3.9	10
89	Rough elastic spheres in contact: Memory effects and the transverse force. <i>Journal of the Mechanics and Physics of Solids</i> , 1997 , 45, 1025-1036	5	10
88	FaxB relations in solids-a generalized approach to particle motion in elasticity and viscoelasticity. <i>Journal of the Acoustical Society of America</i> , 2008 , 123, 99-108	2.2	10
87	Eulerian conjugate stress and strain. <i>Journal of Mechanics of Materials and Structures</i> , 2008 , 3, 243-260	1.2	10
86	Quadratic invariants of elastic moduli. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2007 , 60, 367-389	1	9
85	Acoustic and flexural wave scattering from a three-member junction. <i>Journal of the Acoustical Society of America</i> , 1995 , 98, 3309-3319	2.2	9
84	Nonlinear poroelasticity for a layered medium. <i>Journal of the Acoustical Society of America</i> , 1995 , 98, 1138-1146	2.2	9
83	One-component surface waves in materials with symmetry. <i>Journal of the Mechanics and Physics of Solids</i> , 1992 , 40, 1569-1582	5	9
82	Non-Reciprocal Wave Transmission in a Bilinear Spring-Mass System. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2020 , 142,	1.6	9
81	Acoustic Poisson-like effect in periodic structures. <i>Journal of the Acoustical Society of America</i> , 2016 , 139, 3353	2.2	9
80	An inequality for longitudinal and transverse wave attenuation coefficients. <i>Journal of the Acoustical Society of America</i> , 2017 , 141, 475	2.2	8

79	The Gradient of Total Multiple Scattering Cross-Section and Its Application to Acoustic Cloaking. <i>Journal of Theoretical and Computational Acoustics</i> , 2020 , 28, 1950016	0.8	8
78	On the quasistatic effective elastic moduli for elastic waves in three-dimensional phononic crystals. <i>Journal of the Mechanics and Physics of Solids</i> , 2013 , 61, 2260-2272	5	8
77	Pure shear axes and elastic strain energy. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2006 , 59, 551-561	1	8
76	Acoustic scattering from fluid-loaded elastic shells: A Gaussian beam approach. <i>Journal of the Acoustical Society of America</i> , 1995 , 98, 611-622	2.2	8
75	Integral identities for reflection, transmission, and scattering coefficients. <i>Journal of the Acoustical Society of America</i> , 2018 , 144, 2109	2.2	8
74	Scattering of flexural waves from a hole in a thin plate with an internal beam. <i>Journal of the Acoustical Society of America</i> , 2015 , 137, 293-302	2.2	7
73	Effective shear speed in two-dimensional phononic crystals. <i>Physical Review B</i> , 2011 , 84,	3.3	7
72	Structural and acoustical wave interaction at a wedge-shaped junction of fluid-loaded plates. <i>Journal of the Acoustical Society of America</i> , 1997 , 101, 867-876	2.2	7
71	Elastic waves in inhomogeneously oriented anisotropic materials. <i>Wave Motion</i> , 2001 , 33, 97-107	1.8	7
70	Rays, beams and quasimodes on thin shell structures. <i>Wave Motion</i> , 1995 , 21, 127-147	1.8	7
69	Benchmarking an acoustic coupling theory for elastic shells of arbitrary shape. <i>Journal of the Acoustical Society of America</i> , 1995 , 98, 2368-2371	2.2	7
68	Ray tracing over smooth elastic shells of arbitrary shape. <i>Journal of the Acoustical Society of America</i> , 1996 , 99, 55-64	2.2	7
67	Waves in cylindrical shells with circumferential submembers: a matrix approach. <i>Journal of Sound and Vibration</i> , 1995 , 181, 457-484	3.9	7
66	Shear wave propagation in a periodically layered medium - an asymptotic theory. <i>Wave Motion</i> , 1992 , 16, 33-55	1.8	7
65	Scattering by penetrable acoustic targets. <i>Wave Motion</i> , 1984 , 6, 501-516	1.8	7
64	Introduction to the special issue on acoustic metamaterials. <i>Journal of the Acoustical Society of America</i> , 2016 , 139, 3239	2.2	7
63	Bounds on the longitudinal and shear wave attenuation ratio of polycrystalline materials. <i>Journal of the Acoustical Society of America</i> , 2017 , 141, 2633	2.2	6
62	Non-symmetric flexural wave scattering and one-way extreme absorption. <i>Journal of the Acoustical Society of America</i> , 2019 , 146, 873	2.2	6

61	Converging Bounds for the Effective Shear Speed in 2D Phononic Crystals. <i>Journal of Elasticity</i> , 2013 , 113, 179-191	1.5	6
60	Comment on Design of acoustic devices with isotropic material via conformal transformation [Appl. Phys. Lett. 97, 044101 (2010)]. <i>Applied Physics Letters</i> , 2012 , 100, 066101	3.4	6
59	Higher derivatives and the inverse derivative of a tensor-valued function of a tensor. <i>Quarterly of Applied Mathematics</i> , 2008 , 66, 725-741	0.7	6
58	Acoustic reciprocity for fluid-structure problems. <i>Journal of the Acoustical Society of America</i> , 1993 , 94, 1714-1715	2.2	6
57	The influence of beam type on the back reflection of ultrasonic beams from a liquid-solid interface. <i>Journal of the Acoustical Society of America</i> , 1984 , 76, 629-631	2.2	6
56	Effective antiplane shear wave speed in 2D periodic piezoelectric crystals. <i>International Journal of Engineering Science</i> , 2015 , 88, 29-39	5.7	5
55	Focusing capability of a phononic crystal based on a hollow metallic structure. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 1314-21	3.2	5
54	Spectral properties of a 2D scalar wave equation with 1D periodic coefficients: Application to shear horizontal elastic waves. <i>Mathematics and Mechanics of Solids</i> , 2013 , 18, 677-700	2.3	5
53	Divergence of logarithm of a unimodular monodromy matrix near the edges of the Brillouin zone. <i>Wave Motion</i> , 2010 , 47, 370-382	1.8	5
52	Degenerate weakly non-linear elastic plane waves. <i>International Journal of Non-Linear Mechanics</i> , 2009 , 44, 486-493	2.8	5
51	Acoustic and membrane wave interaction at plate junctions. <i>Journal of the Acoustical Society of America</i> , 1995 , 97, 2063-2073	2.2	5
50	Anisotropy-induced coupling in borehole acoustic modes. <i>Journal of Geophysical Research</i> , 1996 , 101, 15945-15952		5
49	Elastic Gaussian wave packets in isotropic media. <i>Acta Mechanica</i> , 1988 , 71, 95-114	2.1	5
48	Small-on-Large Theory with Applications to Granular Materials and Fluid/Solid Systems 2007 , 27-62		5
47	Unilateral and nonreciprocal transmission through bilinear spring systems. <i>Extreme Mechanics Letters</i> , 2021 , 42, 101087	3.9	5
46	Metaclusters for the Full Control of Mechanical Waves. <i>Physical Review Applied</i> , 2021 , 15,	4.3	5
45	Static and dynamic non-reciprocity in bi-linear structures 2018 ,		5
44	Far-field acoustic holography onto cylindrical surfaces using pressure measured on semicircles. <i>Journal of the Acoustical Society of America</i> , 1997 , 102, 2098-2107	2.2	4

43	Hamiltonian and onsageristic approaches in the nonlinear theory of fluid-permeable elastic continua. <i>International Journal of Engineering Science</i> , 1997 , 35, 75-87	5.7	4
42	Invariants of C_{12} in terms of the invariants of C . <i>Journal of Mechanics of Materials and Structures</i> , 2007 , 2, 1805-1812	1.2	4
41	Wavefront singularities associated with the conical point in elastic solids with cubic symmetry. <i>Wave Motion</i> , 2007 , 44, 513-527	1.8	4
40	Stress invariance and redundant moduli in three-dimensional elasticity. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1999 , 455, 4097-4116	2.4	4
39	Static and dynamic axial loading of a partially debonded fiber. <i>Mechanics of Materials</i> , 1991 , 11, 163-175	3.3	4
38	Rayleigh waves excited by the discontinuous advance of a rupture front. <i>Journal of Geophysical Research</i> , 1983 , 88, 2233		4
37	Acoustic radiation generated by local excitation of submerged beams and strings. <i>Journal of Sound and Vibration</i> , 1985 , 100, 107-121	3.9	4
36	Acoustic scattering from a fluid cylinder with Willis constitutive properties. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20180571	2.4	4
35	The electromomentum effect in piezoelectric Willis scatterers. <i>Wave Motion</i> , 2021 , 106, 102797	1.8	4
34	Green's function for symmetric loading of an elastic sphere with application to contact problems. <i>Journal of Mechanics of Materials and Structures</i> , 2012 , 7, 701-719	1.2	3
33	A multiple-scales approach to crack-front waves. <i>Journal of Engineering Mathematics</i> , 2007 , 59, 399-417	1.2	3
32	Tambouranolide, a new cytotoxic hydroxybutanolide from a Tambourissa sp. (Monimiaceae). <i>Natural Product Research</i> , 2007 , 21, 37-41	2.3	3
31	LINE ADMITTANCE AT THE JUNCTION OF TWO PLATES WITH AND WITHOUT FLUID LOADING. <i>Journal of Sound and Vibration</i> , 1996 , 191, 29-51	3.9	3
30	Borehole flexural modes in anisotropic formations 1991 ,		3
29	STATIC IMPLICATIONS OF THE EXISTENCE OF A PLANE OF SYMMETRY IN AN ANISOTROPIC ELASTIC SOLID. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 1992 , 45, 141-147	1	3
28	Design and characterization of a three-dimensional anisotropic additively manufactured pentamode material.. <i>Journal of the Acoustical Society of America</i> , 2022 , 151, 168	2.2	3
27	Enhanced acoustic transmission through a slanted grating. <i>Comptes Rendus - Mecanique</i> , 2015 , 343, 622-634		2
26	A Refinement of Mindlin Plate Theory Using Simultaneous Rotary Inertia and Shear Correction Factors. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2018 , 140,	1.6	2

25	Diffuse wave density and directionality in anisotropic solids. <i>Journal of the Acoustical Society of America</i> , 2008 , 123, 1399-408	2.2	2
24	Acoustic diffraction from the junction of two joined parallel plates. <i>Journal of the Acoustical Society of America</i> , 1996 , 99, 1475-1483	2.2	2
23	Sound Localization through Multi-Scattering and Gradient-Based Optimization. <i>Mathematics</i> , 2021 , 9, 2862	2.3	2
22	E and Gamma distributions in polygonal networks.. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
21	Static elastic cloaking, low-frequency elastic wave transparency and neutral inclusions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20190725	2.4	2
20	Nonlinear multiple scattering of flexural waves in elastic beams: Frequency conversion and non-reciprocal effects. <i>Journal of Sound and Vibration</i> , 2022 , 527, 116859	3.9	2
19	Isotropic transformation acoustics and applications 2017 ,		1
18	Nonlinear evolution equations for degenerate transverse waves in anisotropic elastic solids. <i>AIP Conference Proceedings</i> , 2008 ,	0	1
17	Longitudinal and shear wave diffraction at the junction of two fluid loaded, doubly curved shells. <i>Wave Motion</i> , 1995 , 22, 31-46	1.8	1
16	Inverse Ray Tracing in Anisotropic Elastic Solids 1983 , 907-922		1
15	Stress formulation of elastic wave motion. <i>JASA Express Letters</i> , 2021 , 1, 064001		1
14	Nonreciprocal and directional wave propagation in a two-dimensional lattice with bilinear properties. <i>Nonlinear Dynamics</i> , 2021 , 106, 2449	5	1
13	Broadband acoustic lens design by reciprocity and optimization. <i>JASA Express Letters</i> , 2022 , 2, 024005		1
12	Pentamode Lattice Structures 2017 , 179-198		
11	Hyperelastic Cloaking: Transformation Elasticity Using Pre-stressed Solids. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2017 , 481-551	0.1	
10	Comments on An analytical study of sound transmission through unbounded panels of functionally graded materials. <i>Journal of Sound and Vibration</i> 330(6) (2011)1153-1165 <i>Journal of Sound and Vibration</i> , 2011 , 330, 4945-4946	3.9	
9	G.R. Wickham: an appreciation. <i>Wave Motion</i> , 2001 , 33, 1-6	1.8	
8	Equilibrium, stability and evolution of elastic plates under the combined effects of stress and surface diffusion. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 1999 , 52, 283-309	1	

- 7 Observation of Elastic Wave Localization. *Materials Research Society Symposia Proceedings*, **1991**, 253, 435
- 6 High-frequency nonlinear acoustic beams and wave packets. *Journal of the Acoustical Society of America*, **1992**, 92, 2186-2194 2.2
- 5 An Asymptotic Analysis of Acoustic Scattering by Nearly Rigid or Soft Targets. *North-Holland Mathematics Studies*, **1984**, 361-372
- 4 Passive nonreciprocity-induced directional wave scattering. *Extreme Mechanics Letters*, **2022**, 51, 101600, 9
- 3 Acoustic Scattering from a Coated Elastic Shell: Exact vs. Approximate Theory. *Fluid Mechanics and Its Applications*, **2003**, 353-362 0.2
- 2 Gaussian Wave Packets in Linear and Nonlinear Anisotropic Elastic Solids. *North-Holland Series in Applied Mathematics and Mechanics*, **1989**, 491-504
- 1 Wavefield Representation Using Compact and Directionally Localized Sources. *The IMA Volumes in Mathematics and Its Applications*, **1997**, 179-196 0.5