

# Wei-qiu Chen

## List of Publications by Year in descending order

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373  
papers

12,260  
citations

25034

57  
h-index

48315

88  
g-index

380  
all docs

380  
docs citations

380  
times ranked

5074  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of a hollow piezoelectric semiconductor composite cylinder under a thermal loading. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 2037-2046.	2.6	9
2	Nonlinear Vibration and Stability of a Dielectric Elastomer Balloon Based on a Strain-Stiffening Model. <i>Journal of Elasticity</i> , 2023, 153, 533-548.	1.9	6
3	Interaction between torsional deformation and mobile charges in a composite rod of piezoelectric dielectrics and nonpiezoelectric semiconductors. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 1449-1455.	2.6	14
4	A double-layer metastructured beam with contact-separation switchability. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 1011-1019.	2.6	4
5	An Interpretation of Long Short-Term Memory Recurrent Neural Network for Approximating Roots of Polynomials. <i>IEEE Access</i> , 2022, 10, 28194-28205.	4.2	2
6	Predictions of Dynamic Multimode-Coupling and High-Frequency Vibrations in Magneto-Electro-Elastic Heterostructures. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1804-1814.	3.0	4
7	Identification of an Ultrathin Osteochondral Interface Tissue with Specific Nanostructure at the Human Knee Joint. <i>Nano Letters</i> , 2022, 22, 2309-2319.	9.1	18
8	Interfacial delamination-induced unidirectional propagation of guided waves in multilayered media. <i>Mathematics and Mechanics of Solids</i> , 2022, 27, 1531-1545.	2.4	4
9	Size-dependent vibrations and waves in piezoelectric nanostructures: a literature review. <i>International Journal of Smart and Nano Materials</i> , 2022, 13, 391-431.	4.2	26
10	Tunable flexural wave band gaps in a prestressed elastic beam with periodic smart resonators. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 221-228.	2.6	26
11	Low-frequency tunable topological interface states in soft phononic crystal cylinders. <i>International Journal of Mechanical Sciences</i> , 2021, 191, 106098.	6.7	46
12	Broadband topological valley transport of elastic wave in reconfigurable phononic crystal plate. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	64
13	Axisymmetric Free Vibration of Soft Electroactive Circular Plates under Biasing Fields. <i>Acta Mechanica Sinica</i> , 2021, 34, 326-345.	1.9	4
14	Instability of compressible soft electroactive plates. <i>International Journal of Engineering Science</i> , 2021, 162, 103474.	5.0	8
15	Mechanical Manipulation of Silicon-based Schottky Diodes via Flexoelectricity. <i>Nano Energy</i> , 2021, 83, 105855.	16.0	41
16	Robust optimal design of strain-gauge-based force sensors using moving morphable components method: enhanced sensitivity and reduced cross-interference. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 1439-1455.	3.5	5
17	Tunable guided waves in a soft phononic crystal with a line defect. <i>APL Materials</i> , 2021, 9, .	5.1	12
18	Stretchable, Multifunctional Epidermal Sensor Patch for Surface Electromyography and Strain Measurements. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100031.	6.1	30

#	ARTICLE	IF	CITATIONS
19	Manipulation of the guided wave propagation in multilayered phononic plates by introducing interface delaminations. <i>European Journal of Mechanics, A/Solids</i> , 2021, 88, 104266.	3.7	21
20	Precise and target-oriented control of the low-frequency Lamb wave bandgaps. <i>Journal of Sound and Vibration</i> , 2021, 511, 116367.	3.9	21
21	Harnessing post-buckling deformation to tune sound absorption in soft Helmholtz absorbers. <i>International Journal of Mechanical Sciences</i> , 2021, 208, 106695.	6.7	29
22	Propagation of nonlinear waves in graded flexible metamaterials. <i>International Journal of Impact Engineering</i> , 2021, 156, 103924.	5.0	6
23	Preface to the Special Issue on the Dynamic Behaviors and Energy Absorption of Materials and Structures. <i>Acta Mechanica Solida Sinica</i> , 2021, 34, 781-782.	1.9	0
24	Tailoring edge and interface states in topological metastructures exhibiting the acoustic valley Hall effect. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	18
25	Pattern evolution in bending dielectric-elastomeric bilayers. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 136, 103670.	4.8	18
26	Magnetically Controllable Piezotronic Responses in a Composite Semiconductor Fiber with Multiferroic Coupling Effects. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900621.	1.8	21
27	Numerically Stable Solutions to the State Equations for Structural Analyses. <i>Journal of Engineering Mechanics - ASCE</i> , 2020, 146, .	2.9	4
28	Voltage-controlled quantum valley Hall effect in dielectric membrane-type acoustic metamaterials. <i>International Journal of Mechanical Sciences</i> , 2020, 172, 105368.	6.7	67
29	Actively controllable topological phase transition in homogeneous piezoelectric rod system. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 137, 103824.	4.8	105
30	Flexible manipulation of topologically protected waves in one-dimensional soft periodic plates. <i>International Journal of Mechanical Sciences</i> , 2020, 170, 105348.	6.7	27
31	Growth and patterns of residually stressed core-shell soft sphere. <i>International Journal of Non-Linear Mechanics</i> , 2020, 127, 103594.	2.6	7
32	Thermally Induced Electromechanical Fields in Unimorphs of Piezoelectric Dielectrics and Nonpiezoelectric Semiconductors. <i>Integrated Ferroelectrics</i> , 2020, 211, 117-131.	0.7	5
33	Exact axisymmetric adhesive contact analysis for a pre-deformed soft electroactive half-space. <i>International Journal of Solids and Structures</i> , 2020, 207, 206-229.	2.7	4
34	Mathematical modelling of phononic nanoplate and its size-dependent dispersion and topological properties. <i>Applied Mathematical Modelling</i> , 2020, 88, 774-790.	4.2	20
35	Experimentally tailoring acoustic topological edge states by selecting the boundary type. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	5
36	The effect of an exterior electric field on the instability of dielectric plates. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200267.	2.1	7

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37	Effects of Magnetic Fields on PN Junctions in Piezomagnetic/Piezoelectric Semiconductor Composite Fibers. International Journal of Applied Mechanics, 2020, 12, 2050085.	2.2	19
38	Nonlinear response and axisymmetric wave propagation in functionally graded soft electro-active tubes. International Journal of Mechanical Sciences, 2020, 187, 106006.	6.7	19
39	Electrical Response of a Multiferroic Composite Semiconductor Fiber Under a Local Magnetic Field. Acta Mechanica Solida Sinica, 2020, 33, 663-673.	1.9	21
40	Actively controllable topological phase transition in phononic beam systems. International Journal of Mechanical Sciences, 2020, 180, 105668.	6.7	42
41	Electrostatically tunable axisymmetric vibrations of soft electro-active tubes. Journal of Sound and Vibration, 2020, 483, 115467.	3.9	21
42	Programmable and scalable transfer printing with high reliability and efficiency for flexible inorganic electronics. Science Advances, 2020, 6, eabb2393.	10.3	88
43	Effects of strain stiffening and electrostriction on tunable elastic waves in compressible dielectric elastomer laminates. International Journal of Mechanical Sciences, 2020, 176, 105572.	6.7	35
44	Enhance the sensitivity of strain-gauge-based force sensors using moving morphable units method. Structural and Multidisciplinary Optimization, 2020, 62, 2805-2816.	3.5	3
45	Electro-mechanically guided growth and patterns. Journal of the Mechanics and Physics of Solids, 2020, 143, 104073.	4.8	9
46	Overview of the 2nd ICMAMS in Nanjing and call for papers for the third edition in College Station. Mechanics of Advanced Materials and Structures, 2020, 27, 91-93.	2.6	0
47	Temperature Effects on PN Junctions in Piezoelectric Semiconductor Fibers with Thermoelastic and Pyroelectric Couplings. Journal of Electronic Materials, 2020, 49, 3140-3148.	2.2	29
48	Tunable and Active Phononic Crystals and Metamaterials. Applied Mechanics Reviews, 2020, 72, .	10.1	292
49	Nanoscale Insights into Photovoltaic Hysteresis in Triple-Cation Mixed-Halide Perovskite: Resolving the Role of Polarization and Ionic Migration. Advanced Materials, 2019, 31, e1902870.	21.0	73
50	Free vibration and active control of pre-stretched multilayered electroactive plates. International Journal of Solids and Structures, 2019, 180-181, 108-124.	2.7	17
51	Harnessing inclusions to tune post-buckling deformation and bandgaps of soft porous periodic structures. Journal of Sound and Vibration, 2019, 459, 114848.	3.9	59
52	Influence of Initial Residual Stress on Growth and Pattern Creation for a Layered Aorta. Scientific Reports, 2019, 9, 8232.	3.3	29
53	Electrical behaviors of a piezoelectric semiconductor fiber under a local temperature change. Nano Energy, 2019, 66, 104081.	16.0	51
54	Three-dimensional vibrations of multilayered hollow spheres submerged in a complex fluid. Journal of Fluid Mechanics, 2019, 879, 682-715.	3.4	9

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55	Electrostatically tunable small-amplitude free vibrations of pressurized electro-active spherical balloons. International Journal of Non-Linear Mechanics, 2019, 117, 103237.	2.6	22
56	Harnessing uniaxial tension to tune Poisson's ratio and wave propagation in soft porous phononic crystals: an experimental study. Soft Matter, 2019, 15, 2921-2927.	2.7	50
57	Actively controllable flexural wave band gaps in beam-type acoustic metamaterials with shunted piezoelectric patches. European Journal of Mechanics, A/Solids, 2019, 77, 103807.	3.7	99
58	Abnormal wave propagation behaviors in two-dimensional massâ€“spring structures with nonlocal effect. Mathematics and Mechanics of Solids, 2019, 24, 3632-3643.	2.4	8
59	3D elasticity solutions for stress field analysis of FGM circular plates subject to concentrated edge forces and couples. Acta Mechanica, 2019, 230, 2655-2668.	2.1	1
60	Surface effect on the propagation of flexural waves in periodic nano-beam and the size-dependent topological properties. Composite Structures, 2019, 216, 427-435.	5.8	41
61	Research laboratory on the mechanics of smart materials and structures, Zhejiang University. Journal of Zhejiang University: Science A, 2019, 20, 305-310.	2.4	1
62	Piezotronic Effect of a Thin Film With Elastic and Piezoelectric Semiconductor Layers Under a Static Flexural Loading. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	2.2	29
63	General solutions for elasticity of transversely isotropic materials with thermal and other effects: A review. Journal of Thermal Stresses, 2019, 42, 90-106.	2.0	13
64	Temperature Effects on Mobile Charges in Extension of Composite Fibers of Piezoelectric Dielectrics and Non-Piezoelectric Semiconductors. International Journal of Applied Mechanics, 2019, 11, 1950088.	2.2	19
65	On The Effective Polarization Charges In Theextension Of A Piezoelectric Semiconductor Fiber With A Pn Junction. , 2019, , .		1
66	Prescribing patterns in growing tubular soft matter by initial residual stress. Soft Matter, 2019, 15, 8468-8474.	2.7	29
67	SH wave generated Lamb wave in a plate with a localized region of material nonlinearity. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900343.	0.2	0
68	Tuning bandgaps in metastructured beams: numerical and experimental study. Journal of Zhejiang University: Science A, 2019, 20, 811-822.	2.4	14
69	Static buckling of piezoelectric semiconductor fibers. Materials Research Express, 2019, 6, 125919.	1.6	20
70	Tunable Two-Way Unidirectional Acoustic Diodes: Design and Simulation. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	2.2	28
71	Coupled Extensional and Flexural Motions of a Two-Layer Plate With Interface Slip. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, .	1.6	1
72	Theory of dislocation loops in multilayered anisotropic solids with magneto-electro-elastic couplings. Journal of the Mechanics and Physics of Solids, 2019, 125, 440-471.	4.8	16

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73	Tunable bandgaps in soft phononic plates with spring-mass-like resonators. International Journal of Mechanical Sciences, 2019, 151, 300-313.	6.7	92
74	Finite bending and pattern evolution of the associated instability for a dielectric elastomer slab. International Journal of Solids and Structures, 2019, 158, 191-209.	2.7	29
75	Dispersion curves of magneto-electro-elastic imperfect cylinders filled with fluid. Mathematics and Mechanics of Solids, 2019, 24, 195-211.	2.4	6
76	On asymmetric bending of functionally graded solid circular plates. Applied Mathematics and Mechanics (English Edition), 2018, 39, 767-782.	3.6	3
77	Buckling of a piezoelectric nanobeam with interfacial imperfection and van der Waals force: Is nonlocal effect really always dominant?. Composite Structures, 2018, 194, 357-364.	5.8	17
78	Three-dimensional buckling and free vibration analyses of initially stressed functionally graded graphene reinforced composite cylindrical shell. Composite Structures, 2018, 189, 560-569.	5.8	196
79	Soft Ultrathin Electronics Innervated Adaptive Fully Soft Robots. Advanced Materials, 2018, 30, e1706695.	21.0	301
80	On propagation of axisymmetric waves in pressurized functionally graded elastomeric hollow cylinders. Journal of Sound and Vibration, 2018, 421, 17-47.	3.9	47
81	Electromechanical Fields Near a Circular PN Junction Between Two Piezoelectric Semiconductors. Acta Mechanica Solida Sinica, 2018, 31, 127-140.	1.9	34
82	Actively tunable transverse waves in soft membrane-type acoustic metamaterials. Journal of Applied Physics, 2018, 123, .	2.5	50
83	Two-dimensional equations for thin-films of ionic conductors. Applied Mathematics and Mechanics (English Edition), 2018, 39, 1071-1088.	3.6	1
84	Controllable wave propagation in a weakly nonlinear monoatomic lattice chain with nonlocal interaction and active control. Applied Mathematics and Mechanics (English Edition), 2018, 39, 1059-1070.	3.6	17
85	Extension/Compression-Controlled Complete Band Gaps in 2D Chiral Square-Lattice-Like Structures. Acta Mechanica Solida Sinica, 2018, 31, 51-65.	1.9	27
86	On free vibration of piezoelectric nanospheres with surface effect. Mechanics of Advanced Materials and Structures, 2018, 25, 1101-1114.	2.6	13
87	Tuning Elastic Waves in Soft Phononic Crystal Cylinders Via Large Deformation and Electromechanical Coupling. Journal of Applied Mechanics, Transactions ASME, 2018, 85, .	2.2	56
88	Piezopotential in a bended composite fiber made of a semiconductive core and of two piezoelectric layers with opposite polarities. Nano Energy, 2018, 54, 341-348.	16.0	61
89	Robustly Tuning Bandgaps in Two-Dimensional Soft Phononic Crystals with Criss-Crossed Elliptical Holes. Acta Mechanica Solida Sinica, 2018, 31, 573-588.	1.9	24
90	Optimizing parameters to achieve giant deformation of an incompressible dielectric elastomeric plate. Extreme Mechanics Letters, 2018, 22, 60-68.	4.1	18

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91	Modified multiplicative decomposition model for tissue growth: Beyond the initial stress-free state. Journal of the Mechanics and Physics of Solids, 2018, 118, 133-151.	4.8	40
92	Bending of a Cantilever Piezoelectric Semiconductor Fiber Under an End Force. Advanced Structured Materials, 2018, , 261-278.	0.5	27
93	Wrinkles in soft dielectric plates. Journal of the Mechanics and Physics of Solids, 2018, 119, 298-318.	4.8	58
94	Tunable band gaps and transmission behavior of SH waves with oblique incident angle in periodic dielectric elastomer laminates. International Journal of Mechanical Sciences, 2018, 146-147, 81-90.	6.7	38
95	Piezotronic effects in the extension of a composite fiber of piezoelectric dielectrics and nonpiezoelectric semiconductors. Journal of Applied Physics, 2018, 124, .	2.5	79
96	3D elasticity solution for uniformly loaded elliptical plates of functionally graded materials using complex variables method. Archive of Applied Mechanics, 2018, 88, 1829-1841.	2.2	3
97	An analytical model to predict material gradient and anisotropy in bamboo. Acta Mechanica, 2017, 228, 2819-2833.	2.1	12
98	Exact solutions for axisymmetric flexural free vibrations of inhomogeneous circular Mindlin plates with variable thickness. Applied Mathematics and Mechanics (English Edition), 2017, 38, 505-526.	3.6	12
99	Interaction energy of interface dislocation loops in piezoelectric bi-crystals. Theoretical and Applied Mechanics Letters, 2017, 7, 76-80.	2.8	2
100	Elasticity solutions for a transversely isotropic functionally graded annular sector plate. Acta Mechanica, 2017, 228, 2603-2621.	2.1	5
101	An analysis of electric double layers near comb electrodes using the linearized Poisson-Nernst-Planck theory. Journal of Applied Physics, 2017, 121, 044502.	2.5	1
102	An analysis of the extension of a ZnO piezoelectric semiconductor nanofiber under an axial force. Smart Materials and Structures, 2017, 26, 025030.	3.5	139
103	Indentation of a Transversely Isotropic Thermoporoelastic Half-Space by a Rigid Circular Cylindrical Punch. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	2.2	6
104	On surface waves in a finitely deformed coated half-space. International Journal of Solids and Structures, 2017, 128, 50-66.	2.7	15
105	Buckling of a stiff thin film on an elastic graded compliant substrate. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170410.	2.1	8
106	An analysis of PN junctions in piezoelectric semiconductors. Journal of Applied Physics, 2017, 122, .	2.5	82
107	A Two-Way Unidirectional Narrow-Band Acoustic Filter Realized by a Graded Phononic Crystal. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	2.2	20
108	On guided circumferential waves in soft electroactive tubes under radially inhomogeneous biasing fields. Journal of the Mechanics and Physics of Solids, 2017, 99, 116-145.	4.8	64

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109	Bifurcation of pressurized functionally graded elastomeric hollow cylinders. <i>Composites Part B: Engineering</i> , 2017, 109, 259-276.	12.0	21
110	Notice of Removal: Tuning waves in soft phononic rods via large deformation and electromechanical coupling. , 2017, , .		1
111	Propagation of extensional waves in a piezoelectric semiconductor rod. <i>AIP Advances</i> , 2016, 6, .	1.3	42
112	Three-dimensional fundamental thermo-elastic solutions applied to contact problems. <i>Journal of Applied Physics</i> , 2016, 120, 174904.	2.5	6
113	Enhancing magnetoelectric effect in multiferroic composite bilayers via flexoelectricity. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	40
114	Exact solutions for free vibrations of axially inhomogeneous Timoshenko beams with variable cross section. <i>Acta Mechanica</i> , 2016, 227, 2625-2643.	2.1	34
115	On buckling of a soft incompressible electroactive hollow cylinder. <i>International Journal of Solids and Structures</i> , 2016, 97-98, 400-416.	2.7	24
116	Mechanics of dielectric elastomers: materials, structures, and devices. <i>Journal of Zhejiang University: Science A</i> , 2016, 17, 1-21.	2.4	24
117	Carrier distribution and electromechanical fields in a free piezoelectric semiconductor rod. <i>Journal of Zhejiang University: Science A</i> , 2016, 17, 37-44.	2.4	31
118	On the Greenâ€™s functions for a two-phase soft electroactive medium subjected to biasing fields. <i>Engineering Analysis With Boundary Elements</i> , 2016, 64, 137-149.	3.7	1
119	Analytical solutions for an infinite transversely isotropic functionally graded sectorial plate subjected to a concentrated force or couple at the tip. <i>Acta Mechanica</i> , 2016, 227, 495-506.	2.1	4
120	Equilibrium of transversely isotropic FGM plates with an elliptical hole: 3D elasticity solutions. <i>Archive of Applied Mechanics</i> , 2016, 86, 1391-1414.	2.2	8
121	Diffusion-induced stresses in an imperfect bilayer electrode of coin-shaped lithium-ion batteries. <i>European Journal of Mechanics, A/Solids</i> , 2016, 55, 167-180.	3.7	4
122	Multiple refraction switches realized by stretching elastomeric scatterers in sonic crystals. <i>AIP Advances</i> , 2015, 5, .	1.3	11
123	Kink and kink-like waves in pre-stretched Mooney-Rivlin viscoelastic rods. <i>AIP Advances</i> , 2015, 5, .	1.3	8
124	Statics of FGM circular plate with magneto-electro-elastic coupling: axisymmetric solutions and their relations with those for corresponding rectangular beam. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2015, 36, 581-598.	3.6	18
125	Extensional Waves in a Sandwich Plate With Interface Slip. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015, 137, .	1.6	1
126	An Inertia-Based Stabilizing Method for Quasi-Static Simulation of Unstable Crack Initiation and Propagation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015, 82, .	2.2	20



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127	Three-dimensional elastostatic solutions for transversely isotropic functionally graded material plates containing elastic inclusion. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2015, 36, 417-426.	3.6	4
128	Thin-Film Piezoelectric Actuators of Nonuniform Thickness and Nonhomogeneous Material Properties for Modulating Actuation Stress. <i>Mechanics of Advanced Materials and Structures</i> , 2015, 22, 803-812.	2.6	3
129	Surface effects on anti-plane shear waves propagating in magneto-electro-elastic nanoplates. <i>Smart Materials and Structures</i> , 2015, 24, 095017.	3.5	28
130	Some recent advances in 3D crack and contact analysis of elastic solids with transverse isotropy and multifield coupling. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015, 31, 601-626.	3.4	34
131	3D elasticity solutions for equilibrium problems of transversely isotropic FGM plates with holes. <i>Acta Mechanica</i> , 2015, 226, 1571-1590.	2.1	13
132	Comments on nonlocal effects in nano-cantilever beams. <i>International Journal of Engineering Science</i> , 2015, 87, 47-57.	5.0	218
133	Size-Dependent Thermomechanical Responses of Nano-Sized Multilayers. <i>Journal of Nanomechanics &amp; Micromechanics</i> , 2015, 5, .	1.4	4
134	On wave propagation in anisotropic elastic cylinders at nanoscale: surface elasticity and its effect. <i>Acta Mechanica</i> , 2014, 225, 2743-2760.	2.1	30
135	Symmetry breaking induces band gaps in periodic piezoelectric plates. <i>Journal of Applied Physics</i> , 2014, 115, 133501.	2.5	17
136	Two-dimensional theory of piezoelectric shells considering surface effect. <i>European Journal of Mechanics, A/Solids</i> , 2014, 43, 109-117.	3.7	32
137	Two-dimensional equations for high-frequency extensional vibrations of piezoelectric ceramic plates with thickness poling. <i>Archive of Applied Mechanics</i> , 2014, 84, 1917-1935.	2.2	9
138	Line-integral representations for extended displacements, stresses, and interaction energy of arbitrary dislocation loops in transversely isotropic magneto-electro-elastic bimetals. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2014, 35, 1005-1028.	3.6	9
139	One-dimensional equations for coupled extensional, radial, and axial-shear motions of circular piezoelectric ceramic rods with axial poling. <i>Archive of Applied Mechanics</i> , 2014, 84, 1677-1689.	2.2	8
140	The renaissance of continuum mechanics. <i>Journal of Zhejiang University: Science A</i> , 2014, 15, 231-240.	2.4	12
141	Propagation of thickness-twist waves in elastic plates with periodically varying thickness and phononic crystals. <i>Ultrasonics</i> , 2014, 54, 1899-1903.	3.9	8
142	Eddy-current effect on resonant magnetoelectric coupling in magnetostrictive-piezoelectric laminated composites. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	15
143	Tuning Molecular Adhesion via Material Anisotropy. <i>Advanced Functional Materials</i> , 2013, 23, 4729-4738.	14.9	11
144	Three-phase inclusions of arbitrary shape with internal uniform hydrostatic thermal stresses. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2013, 64, 1399-1411.	1.4	3

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145	Overtone frequency spectra for $\sqrt[3]{4}$ -dependent modes in AT-cut quartz resonators [Correspondence]. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 858-863.	3.0	9
146	Free vibration analysis of pre-stretched plates with electromechanical coupling. , 2013, , .		1
147	Prediction of Viscoelastic Behavior in Asphalt Concrete Using the Fast Multipole Boundary Element Method. Journal of Materials in Civil Engineering, 2013, 25, 328-336.	2.9	13
148	Two-scale analytical solutions of multilayered composite rectangular plates with in-plane small periodic structure. European Journal of Mechanics, A/Solids, 2013, 40, 123-130.	3.7	13
149	Two-dimensional theory of piezoelectric plates considering surface effect. European Journal of Mechanics, A/Solids, 2013, 41, 50-57.	3.7	66
150	Magnetoelectric effects in functionally graded multiferroic bilayers. Journal of Applied Physics, 2013, 113, 084502.	2.5	15
151	Indentation responses of piezoelectric layered half-space. Smart Materials and Structures, 2013, 22, 015007.	3.5	20
152	Wave propagation in piezoelectric cylinders with surface effects. , 2013, , .		1
153	Non-local modelling on the buckling of a weakened nanobeam. Micro and Nano Letters, 2013, 8, 102-106.	1.3	9
154	Modeling of Piezoelectric Bimorph Nano-Actuators With Surface Effects. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	15
155	Equations for high-frequency vibrations of piezoelectric plates derived from a semi-mixed variational principle and applications in resonators. International Journal of Applied Electromagnetics and Mechanics, 2013, 41, 361-373.	0.6	3
156	Modified Stoney's Formulas for Small-Scaled Bilayer Systems. Journal of Engineering Materials and Technology, Transactions of the ASME, 2012, 134, .	1.4	3
157	Analysis of the coupling effects of the longitudinal and transverse displacements on the deformation and internal forces of functionally graded beams. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 217-218.	0.2	0
158	Indentation of a compressible soft electroactive half-space: Some theoretical aspects. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 1133-1142.	3.4	8
159	Reverberation-ray analysis of continuous Timoshenko beams subject to moving loads. JVC/Journal of Vibration and Control, 2012, 18, 774-784.	2.6	16
160	Waves in pre-stretched incompressible soft electroactive cylinders: exact solution. Acta Mechanica Solida Sinica, 2012, 25, 530-541.	1.9	27
161	On propagation of anti-plane shear waves in piezoelectric plates with surface effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3281-3286.	2.1	66
162	Three-Dimensional Pyroelectric Analysis of a Functionally Graded Piezoelectric Hollow Sphere. Journal of Thermal Stresses, 2012, 35, 499-516.	2.0	8

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163	Two-dimensional complete rational analysis of functionally graded beams within symplectic framework. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2012, 33, 1225-1238.	3.6	4
164	Crack detection of beam-structures based on transient waves. , 2012, , .		0
165	Penny-Shaped Dugdale Crack in a Transverse Isotropic Medium. <i>International Journal of Fracture</i> , 2012, 176, 207-214.	2.2	5
166	Effects of functionally graded materials on dynamics of molecular bond clusters. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 980-988.	5.1	8
167	Elasticity solutions for functionally graded rectangular plates with two opposite edges simply supported. <i>Applied Mathematical Modelling</i> , 2012, 36, 488-503.	4.2	32
168	Analytical solutions of heterogeneous rectangular plates with transverse small periodicity. <i>Composites Part B: Engineering</i> , 2012, 43, 1056-1062.	12.0	7
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