

# Jia-shi Yang

## List of Publications by Year in descending order

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340  
papers

6,297  
citations

94381

37  
h-index

138417

58  
g-index

349  
all docs

349  
docs citations

349  
times ranked

1744  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of a piezoelectric bimorph for scavenging vibration energy. <i>Smart Materials and Structures</i> , 2005, 14, 769-774.	1.8	180
2	Higher-Order Theories of Piezoelectric Plates and Applications. <i>Applied Mechanics Reviews</i> , 2000, 53, 87-99.	4.5	158
3	An Introduction to the Mathematical Theory of Vibrations of Elastic Plates. , 2006, , .		140
4	An analysis of the extension of a ZnO piezoelectric semiconductor nanofiber under an axial force. <i>Smart Materials and Structures</i> , 2017, 26, 025030.	1.8	139
5	Transmitting electric energy through a metal wall by acoustic waves using piezoelectric transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003, 50, 773-781.	1.7	130
6	Saint-Venant's principle in linear piezoelectricity. <i>Journal of Elasticity</i> , 1995, 38, 209-218.	0.9	123
7	Piezoelectric transformer structural modeling - a review. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 1154-1170.	1.7	118
8	Connected Vibrating Piezoelectric Bimorph Beams as a Wide-band Piezoelectric Power Harvester. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 569-574.	1.4	115
9	Electric potential and carrier distribution in a piezoelectric semiconductor nanowire in time-harmonic bending vibration. <i>Nano Energy</i> , 2018, 43, 22-28.	8.2	107
10	An analysis of PN junctions in piezoelectric semiconductors. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	82
11	Piezotronic effects in the extension of a composite fiber of piezoelectric dielectrics and nonpiezoelectric semiconductors. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	79
12	A Review of a Few Topics in Piezoelectricity. <i>Applied Mechanics Reviews</i> , 2006, 59, 335-345.	4.5	75
13	Extensional vibration characteristics and screening of polarization charges in a ZnO piezoelectric semiconductor nanofiber. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	73
14	Piezoelectric waves near an imperfectly bonded interface between two half-spaces. <i>Applied Physics Letters</i> , 2006, 88, 203509.	1.5	69
15	Performance of a piezoelectric harvester in thickness-stretch mode of a plate. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 1872-1876.	1.7	67
16	A mode III crack in a piezoelectric semiconductor of crystals with 6mm symmetry. <i>International Journal of Solids and Structures</i> , 2007, 44, 3928-3938.	1.3	65
17	Piezopotential in a bended composite fiber made of a semiconductive core and of two piezoelectric layers with opposite polarities. <i>Nano Energy</i> , 2018, 54, 341-348.	8.2	61
18	Effects of semiconduction on electromechanical energy conversion in piezoelectrics. <i>Smart Materials and Structures</i> , 2015, 24, 025021.	1.8	59

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19	Amplification of acoustic waves in piezoelectric semiconductor plates. <i>International Journal of Solids and Structures</i> , 2005, 42, 3171-3183.	1.3	57
20	Stability of Shallow Tunnel Using Rigid Blocks and Finite-Element Upper Bound Solutions. <i>International Journal of Geomechanics</i> , 2010, 10, 242-247.	1.3	56
21	Nonlinear behavior of a piezoelectric power harvester near resonance. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 1387-1391.	1.7	54
22	Thickness-shear vibration of rotated Y-cut quartz plates with relatively thick electrodes of unequal thickness. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 918-922.	1.7	52
23	Harvesting magnetic energy using extensional vibration of laminated magnetoelectric plates. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	52
24	Effects of electrodes with continuously varying thickness on energy trapping in thickness-shear mode quartz resonators. <i>Ultrasonics</i> , 2008, 48, 150-154.	2.1	51
25	Electrical behaviors of a piezoelectric semiconductor fiber under a local temperature change. <i>Nano Energy</i> , 2019, 66, 104081.	8.2	51
26	Transient extensional vibration in a ZnO piezoelectric semiconductor nanofiber under a suddenly applied end force. <i>Materials Research Express</i> , 2019, 6, 025902.	0.8	51
27	The cylindrical bending vibration of a laminated elastic plate due to piezoelectric actuators. <i>Smart Materials and Structures</i> , 1994, 3, 485-493.	1.8	50
28	Shape control of vibrating simply supported rectangular plates. <i>AIAA Journal</i> , 1996, 34, 116-122.	1.5	50
29	Equations for thick elastic plates with partially electroded piezoelectric actuators and higher order electric fields. <i>Smart Materials and Structures</i> , 1999, 8, 73-82.	1.8	49
30	Mechanics of electroelastic bodies under biasing fields. <i>Applied Mechanics Reviews</i> , 2004, 57, 173-189.	4.5	47
31	An Anti-plane Crack in a Piezoelectric Semiconductor. <i>International Journal of Fracture</i> , 2005, 136, L27-L32.	1.1	47
32	Effects of mechanical fields on mobile charges in a composite beam of flexoelectric dielectrics and semiconductors. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	47
33	A review of analyses related to vibrations of rotating piezoelectric bodies and gyroscopes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 698-706.	1.7	42
34	A piezoelectric energy harvester based on flow-induced flexural vibration of a circular cylinder. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 135-139.	1.4	42
35	Propagation of extensional waves in a piezoelectric semiconductor rod. <i>AIP Advances</i> , 2016, 6, .	0.6	42
36	Two-dimensional equations for piezoelectric thin-film acoustic wave resonators. <i>International Journal of Solids and Structures</i> , 2017, 110-111, 170-177.	1.3	42

#	ARTICLE	IF	CITATIONS
37	Effects of electrodes with varying thickness on energy trapping in thickness-shear quartz resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 892-895.	1.7	40
38	Electromechanical fields in a nonuniform piezoelectric semiconductor rod. Journal of Mechanics of Materials and Structures, 2018, 13, 103-120.	0.4	39
39	Thickness vibration of piezoelectric plates of 6mm crystals with tilted six-fold axis and two-layered thick electrodes. Ultrasonics, 2009, 49, 149-152.	2.1	38
40	Thermally Induced Carrier Distribution in a Piezoelectric Semiconductor Fiber. Journal of Electronic Materials, 2019, 48, 4939-4946.	1.0	38
41	FREE VIBRATIONS OF A LINEAR THERMOPIEZOELECTRIC BODY. Journal of Thermal Stresses, 1995, 18, 247-262.	1.1	37
42	I-V characteristics of a piezoelectric semiconductor nanofiber under local tensile/compressive stress. Journal of Applied Physics, 2019, 126, .	1.1	37
43	A vibrating piezoelectric ceramic shell as a rotation sensor. Smart Materials and Structures, 2000, 9, 445-451.	1.8	36
44	The magnetoelectric effects in multiferroic composite nanofibers. Applied Physics Letters, 2009, 94, .	1.5	36
45	Study on the influence of semiconductive property for the improvement of nanogenerator by wave mode approach. Nano Energy, 2018, 52, 474-484.	8.2	36
46	Analysis of Rosen piezoelectric transformers with a varying cross-section. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1632-1639.	1.7	35
47	Analysis of ceramic thickness shear piezoelectric gyroscopes. Journal of the Acoustical Society of America, 1997, 102, 3542-3548.	0.5	34
48	Acoustoelectric amplification of piezoelectric surface waves. Acta Mechanica, 2004, 172, 113-122.	1.1	34
49	A low frequency piezoelectric power harvester using a spiral-shaped bimorph. Science in China Series G: Physics, Mechanics and Astronomy, 2006, 49, 649-659.	0.2	34
50	Electromechanical Fields Near a Circular PN Junction Between Two Piezoelectric Semiconductors. Acta Mechanica Solida Sinica, 2018, 31, 127-140.	1.0	34
51	Rotation-perturbed surface acoustic waves propagating in piezoelectric crystals. International Journal of Solids and Structures, 2000, 37, 4933-4947.	1.3	33
52	A second-order theory for piezoelectric materials. Journal of the Acoustical Society of America, 1995, 97, 280-288.	0.5	32
53	A new ceramic tube piezoelectric gyroscope. Sensors and Actuators A: Physical, 2003, 107, 42-49.	2.0	32
54	Magnetically induced charge redistribution in the bending of a composite beam with flexoelectric semiconductor and piezomagnetic dielectric layers. Journal of Applied Physics, 2021, 129, .	1.1	32

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55	Carrier distribution and electromechanical fields in a free piezoelectric semiconductor rod. Journal of Zhejiang University: Science A, 2016, 17, 37-44.	1.3	31
56	PN junctions with coupling to bending deformation in composite piezoelectric semiconductor fibers. International Journal of Mechanical Sciences, 2020, 173, 105421.	3.6	30
57	Thickness-shear vibrations of rotated Y-cut quartz plates with imperfectly bonded surface mass layers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 241-245.	1.7	29
58	Analysis of a Circular Piezoelectric Semiconductor Embedded in a Piezoelectric Semiconductor Substrate. Archive of Applied Mechanics, 2006, 76, 381-390.	1.2	29
59	Transient Bending Vibration of a Piezoelectric Semiconductor Nanofiber Under a Suddenly Applied Shear Force. Acta Mechanica Solida Sinica, 2019, 32, 688-697.	1.0	29
60	Stress-induced potential barriers and charge distributions in a piezoelectric semiconductor nanofiber. Applied Mathematics and Mechanics (English Edition), 2019, 40, 591-600.	1.9	29
61	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, .	1.1	29
62	Temperature Effects on PN Junctions in Piezoelectric Semiconductor Fibers with Thermoelastic and Pyroelectric Couplings. Journal of Electronic Materials, 2020, 49, 3140-3148.	1.0	29
63	Transmitting electric energy through a closed elastic wall by acoustic waves and piezoelectric transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1380-1386.	1.7	28
64	Torsion of a flexoelectric semiconductor rod with a rectangular cross section. Archive of Applied Mechanics, 2021, 91, 2027-2038.	1.2	28
65	Dynamic Anti-Plane Problems of Piezoceramics and Applications in Ultrasonics—A Review. Acta Mechanica Solida Sinica, 2008, 21, 207-220.	1.0	27
66	Bending of a Cantilever Piezoelectric Semiconductor Fiber Under an End Force. Advanced Structured Materials, 2018, , 261-278.	0.3	27
67	Effects of piezoelectric coupling on energy mapping of thickness-shear modes. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1047-1049.	1.7	26
68	High-frequency vibrations of piezoelectric plates driven by lateral electric fields. International Journal of Engineering Science, 2011, 49, 1435-1442.	2.7	26
69	Thickness-shear and thickness-twist vibrations of circular AT-cut quartz resonators. Acta Mechanica Solida Sinica, 2013, 26, 245-254.	1.0	26
70	Resonances and energy trapping in AT-cut quartz resonators operating with fast shear modes driven by lateral electric fields produced by surface electrodes. Ultrasonics, 2015, 59, 14-20.	2.1	26
71	Energy trapping of thickness-extensional modes in thin film bulk acoustic wave resonators. Journal of Mechanical Science and Technology, 2015, 29, 2767-2773.	0.7	26
72	Free vibrations of a piezoelectric body. Journal of Elasticity, 1994, 34, 239-254.	0.9	25

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73	Antiplane piezoelectric surface waves over a ceramic half-space with an imperfectly bonded layer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1695-1698.	1.7	25
74	Vibration of a thickness-twist mode piezoelectric resonator with asymmetric, nonuniform electrodes. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 841-848.	1.7	24
75	Frequency spectra of AT-cut quartz plates with electrodes of unequal thickness. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1146-1151.	1.7	24
76	Analysis of the shear stress transferred from a partially electroded piezoelectric actuator to an elastic substrate. Smart Materials and Structures, 2000, 9, 248-254.	1.8	23
77	Surface acoustic waves propagating over a rotating piezoelectric half-space. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 998-1004.	1.7	23
78	Energy trapping of thickness-shear vibration modes of elastic plates with functionally graded materials. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 687-690.	1.7	23
79	Thickness-shear vibration of an AT-cut quartz resonator with a hyperbolic contour. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1006-1012.	1.7	23
80	Saint-Venant's principle for linear elastic porous materials. Journal of Elasticity, 1995, 39, 265-271.	0.9	22
81	Piezoelectric generator based on torsional modes for power harvesting from angular vibrations. Applied Mathematics and Mechanics (English Edition), 2007, 28, 779-784.	1.9	22
82	Optimal electrode shape and size of doubly rotated quartz plate thickness mode piezoelectric resonators. Applied Physics Letters, 2008, 92, .	1.5	22
83	A theory of electroded thin thermopiezoelectric plates subject to large driving voltages. Journal of Applied Physics, 1994, 76, 5411-5417.	1.1	21
84	Elastic analysis of the transfer of shearing stress from partially electroded piezoelectric actuators to composite plates in cylindrical bending. Smart Materials and Structures, 1997, 6, 333-340.	1.8	21
85	Equations for the flexural motion of elastic plates with partially electroded piezoelectric actuators. Smart Materials and Structures, 1997, 6, 485-490.	1.8	21
86	Electrically forced vibration of a thickness-twist mode piezoelectric resonator with non-uniform electrodes. Acta Mechanica Solida Sinica, 2007, 20, 266-274.	1.0	21
87	Electrical Response of a Multiferroic Composite Semiconductor Fiber Under a Local Magnetic Field. Acta Mechanica Solida Sinica, 2020, 33, 663-673.	1.0	21
88	Propagation and amplification of gap waves between a piezoelectric half-space and a semiconductor film. Acta Mechanica, 2005, 176, 83-93.	1.1	20
89	Theoretical modeling of a thickness-shear mode circular cylinder piezoelectric transformer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 621-626.	1.7	20
90	Theoretical modeling of frequency-dependent magnetoelectric effects in laminated multiferroic plates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 2750-2759.	1.7	20

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91	Extension of a piezoelectric semiconductor fiber with consideration of electrical nonlinearity. <i>Acta Mechanica</i> , 2018, 229, 4663-4676.	1.1	20
92	Static buckling of piezoelectric semiconductor fibers. <i>Materials Research Express</i> , 2019, 6, 125919.	0.8	20
93	Amplification of acoustic waves in laminated piezoelectric semiconductor plates. <i>Archive of Applied Mechanics</i> , 2004, 74, 288-298.	1.2	19
94	Two-dimensional equations for electroelastic plates with relatively large in-plane shear deformation and nonlinear mode coupling in resonant piezoelectric devices. <i>Acta Mechanica</i> , 2008, 196, 103-111.	1.1	19
95	Transient thickness-shear vibration of a piezoelectric plate of monoclinic crystals. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2012, 38, 27-37.	0.3	19
96	Piezopotential in a composite cantilever of piezoelectric dielectrics and nonpiezoelectric semiconductors produced by shear force through $e_{15}$ . <i>Materials Research Express</i> , 2019, 6, 115917.	0.8	19
97	Analysis of a sandwiched piezoelectric semiconducting thermoelectric structure. <i>Mechanics Research Communications</i> , 2019, 98, 31-36.	1.0	19
98	Temperature Effects on Mobile Charges in Extension of Composite Fibers of Piezoelectric Dielectrics and Non-Piezoelectric Semiconductors. <i>International Journal of Applied Mechanics</i> , 2019, 11, 1950088.	1.3	19
99	Magnetically Induced Carrier Distribution in a Composite Rod of Piezoelectric Semiconductors and Piezomagnetism. <i>Materials</i> , 2020, 13, 3115.	1.3	19
100	Effects of Magnetic Fields on PN Junctions in Piezomagnetic/Piezoelectric Semiconductor Composite Fibers. <i>International Journal of Applied Mechanics</i> , 2020, 12, 2050085.	1.3	19
101	Analysis of Piezoelectric Semiconductor Structures. , 2020, , .		19
102	Equations for Elastic Plates with Partially Electroded Piezoelectric Actuators in Flexure with Shear Deformation and Rotatory Inertia. <i>Journal of Intelligent Material Systems and Structures</i> , 1997, 8, 444-451.	1.4	18
103	Surface waves in electrostrictive materials under biasing fields. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2004, 55, 678-700.	0.7	18
104	Analysis of plate piezoelectric unimorphs. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 456-462.	1.7	18
105	Weakly nonlinear behavior of a plate thickness-mode piezoelectric transformer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 877-881.	1.7	18
106	Finite Element Analysis of Stress Field Concentration Near the Edge of an Electrode. <i>Ferroelectrics, Letters Section</i> , 2007, 34, 108-111.	0.4	18
107	Mechanical behaviour of natural cow leather in tension. <i>Acta Mechanica Solida Sinica</i> , 2009, 22, 37-44.	1.0	18
108	Effect of mass layer stiffness on propagation of thickness-twist waves in rotated Y-cut quartz crystal plates. <i>Ultrasonics</i> , 2009, 49, 401-403.	2.1	18

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109	Effects of a Mass Layer With Gradually Varying Thickness on a Quartz Crystal Microbalance. IEEE Sensors Journal, 2011, 11, 1635-1639.	2.4	18
110	Thickness vibrations of rotating piezoelectric plates. Journal of the Acoustical Society of America, 1998, 104, 1427-1435.	0.5	17
111	Amplification of Acoustic Waves in Piezoelectric Semiconductor Shells. Journal of Intelligent Material Systems and Structures, 2005, 16, 613-621.	1.4	17
112	Shear vibration of a crystal plate carrying an array of microbeams. Philosophical Magazine Letters, 2011, 91, 572-581.	0.5	17
113	Energy Conversion Efficiency of a Piezo-Thermoelectric Material. Journal of Electronic Materials, 2018, 47, 4533-4538.	1.0	17
114	Effects of Electric Field Gradient on an Anti-Plane Crack in Piezoelectric Ceramics. International Journal of Fracture, 2004, 127, L111-L116.	1.1	16
115	Thickness-twist modes in a rectangular piezoelectric resonator of hexagonal crystals. Applied Physics Letters, 2006, 88, 153506.	1.5	16
116	Shear Horizontal Piezoelectric Waves in a Piezoceramic Plate Imperfectly Bonded to Two Piezoceramic Half-Spaces. Journal of Mechanics, 2008, 24, 229-239.	0.7	16
117	Fluid-induced frequency shift in a piezoelectric plate driven by lateral electric fields. International Journal of Applied Electromagnetics and Mechanics, 2010, 34, 171-180.	0.3	16
118	Variational formulation of the Stevens-Tiersten equation and application in the analysis of rectangular trapped-energy quartz resonators. Journal of the Acoustical Society of America, 2014, 135, 175-181.	0.5	16
119	Stress-induced electric potential barriers in thickness-stretch deformations of a piezoelectric semiconductor plate. Acta Mechanica, 2021, 232, 4533-4543.	1.1	16
120	Thickness shear vibrations of a circular cylindrical piezoelectric shell. Journal of the Acoustical Society of America, 1995, 97, 309-312.	0.5	15
121	Shear horizontal vibrations of a piezoelectric/ferroelectric wedge. Acta Mechanica, 2004, 173, 13-17.	1.1	15
122	An exact analysis of a rectangular plate piezoelectric generator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 190-195.	1.7	15
123	A thickness mode acoustic wave sensor for measuring interface stiffness between two elastic materials. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1678-1681.	1.7	15
124	Optimal electrode shape and size of a few singly rotated quartz and langasite resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 237-238.	1.7	15
125	Analysis of a monolithic crystal plate acoustic wave filter. Ultrasonics, 2011, 51, 991-996.	2.1	15
126	Effects of aspect ratio on the mode couplings of thin-film bulk acoustic wave resonators. AIP Advances, 2017, 7, 055113.	0.6	15



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127	Buckling of flexoelectric semiconductor beams. <i>Acta Mechanica</i> , 2021, 232, 2623-2633.	1.1	15
128	Temperature Effects on Mobile Charges in Thermopiezoelectric Semiconductor Plates. <i>International Journal of Applied Mechanics</i> , 0, , 2150037.	1.3	15
129	Frequency shifts in a piezoelectric body due to small amounts of additional mass on its surface. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004, 51, 1199-1202.	1.7	14
130	Comment on "Admittance matrix of asymmetric piezoelectric bimorph with two separate electrical ports under general distributed load". <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 1087-1089.	1.7	14
131	Propagation of thickness-twist waves in a multi-sectioned piezoelectric plate of 6Åmm crystals. <i>Archive of Applied Mechanics</i> , 2007, 77, 689-696.	1.2	14
132	Energy trapping in high-frequency vibrations of piezoelectric plates with partial mass layers under lateral electric field excitation. <i>Ultrasonics</i> , 2011, 51, 376-381.	2.1	14
133	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.	1.5	14
134	On modeling of extension and flexure response of electroelastic shells under biasing fields. <i>Acta Mechanica</i> , 2002, 156, 163-178.	1.1	13
135	Electromagnetoelastic behavior induced by a crack under antiplane mechanical and inplane electric impacts. <i>International Journal of Fracture</i> , 2005, 132, 49-64.	1.1	13
136	Free vibrations of an electroelastic body under biasing fields. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 358-364.	1.7	13
137	Analysis of a rectangular ceramic plate in electrically forced thickness-twist vibration as a piezoelectric transformer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 830-835.	1.7	13
138	Propagation of thickness-twist waves in a piezoelectric ceramic plate in contact with viscous fluids. <i>Acta Mechanica</i> , 2010, 212, 263-270.	1.1	13
139	Interface waves in functionally graded piezoelectric materials. <i>International Journal of Engineering Science</i> , 2010, 48, 151-159.	2.7	13
140	Thickness-shear vibration of an elastic plate carrying an array of rigid microbeams with consideration of couple stresses. <i>International Journal of Engineering Science</i> , 2012, 51, 179-189.	2.7	13
141	Electroelastic Effect of Thickness Mode Langasite Resonators. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 2120-2128.	1.7	12
142	Thickness-shear vibration of rotated $Y$ -cut quartz plates with unattached electrodes and asymmetric air gaps. <i>Philosophical Magazine Letters</i> , 2009, 89, 313-321.	0.5	12
143	Nonlinear coupling between thickness-shear and thickness-stretch modes in a rotated $y$ -cut quartz resonator. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 220-224.	1.7	12
144	Effects of Mass Layer Nonuniformity on a Quartz-Crystal Microbalance. <i>IEEE Sensors Journal</i> , 2011, 11, 934-938.	2.4	12

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145	Thickness-shear and thickness-twist modes in an AT-cut quartz acoustic wave filter. <i>Ultrasonics</i> , 2015, 58, 1-5.	2.1	12
146	Flexoelectric effects in second-order extension of rods. <i>Mechanics Research Communications</i> , 2021, 111, 103625.	1.0	12
147	Magnetically induced redistribution of mobile charges in bending of composite beams with piezoelectric semiconductor and piezomagnetic layers. <i>Archive of Applied Mechanics</i> , 2021, 91, 2949-2956.	1.2	12
148	One-dimensional equations for a piezoelectric ring and applications in a gyroscope. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2001, 48, 1275-1282.	1.7	11
149	Equations for small fields superposed on finite biasing fields in a thermoelectroelastic body. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003, 50, 187-192.	1.7	11
150	Piezoelectromagnetic waves in a ceramic plate. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004, 51, 1035-1039.	1.7	11
151	On Using Strain Gradient Theories In The Analysis Of Cracks. <i>International Journal of Fracture</i> , 2005, 133, L19-L22.	1.1	11
152	Propagation of thickness-twist waves in a quartz plate with asymmetric mass layers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 1560-1561.	1.7	11
153	Propagation of thickness-twist waves through a joint between two semi-infinite piezoelectric plates. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 888-891.	1.7	11
154	Force-frequency effect of thickness mode langasite resonators. <i>Ultrasonics</i> , 2010, 50, 479-490.	2.1	11
155	Shear-horizontal waves in a rotated Y-cut quartz plate with an imperfectly bonded mass layer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 616-622.	1.7	11
156	Thickness-shear modes of an elliptical, contoured at-cut quartz resonator. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 1192-1198.	1.7	11
157	Propagation of shear-horizontal waves in piezoelectric plates of cubic crystals. <i>Archive of Applied Mechanics</i> , 2016, 86, 517-528.	1.2	11
158	Analysis of Thermoelectric Generators with General Material Property Variations. <i>Journal of Electronic Materials</i> , 2019, 48, 5516-5522.	1.0	11
159	Torsion of a piezoelectric semiconductor rod of cubic crystals with consideration of warping and in-plane shear of its rectangular cross section. <i>Mechanics of Materials</i> , 2022, 172, 104407.	1.7	11
160	Two-dimensional equations for guided electromagnetic waves in dielectric plates surrounded by free space. <i>Journal of Applied Physics</i> , 1993, 73, 7069-7082.	1.1	10
161	A high sensitivity resonator pressure sensor. <i>Sensors and Actuators A: Physical</i> , 2002, 101, 332-337.	2.0	10
162	A moving screw dislocation in piezoelectromagnetic ceramics. <i>Acta Mechanica</i> , 2004, 172, 123-129.	1.1	10

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163	Amplification of acoustic waves in laminated piezoelectric semiconductor plates. <i>Archive of Applied Mechanics</i> , 2004, 74, 288-298.	1.2	10
164	Spatial dispersion of short surface acoustic waves in piezoelectric ceramics. <i>Acta Mechanica</i> , 2005, 180, 11-20.	1.1	10
165	Effects of Piezoelectric Coupling on Bechmann's number for thickness-twist waves in a plate of hexagonal crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 1960-1962.	1.7	10
166	Acoustic Gap Waves in Piezoelectromagnetic Materials. <i>Mathematics and Mechanics of Solids</i> , 2006, 11, 451-458.	1.5	10
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