

Peng Li

List of Publications by Year in descending order

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56
papers

1,132
citations

623734

14
h-index

414414

32
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56
all docs

56
docs citations

56
times ranked

997
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexural wave control via the profile modulation of non-uniform Timoshenko beams. <i>Mechanics of Materials</i> , 2022, 165, 104162.	3.2	3
2	Impact of PN junction inhomogeneity on the piezoelectric fields of acoustic waves in piezo-semiconductive fibers. <i>Ultrasonics</i> , 2022, 120, 106660.	3.9	8
3	Model and performance analysis of non-uniform piezoelectric semiconductor nanofibers. <i>Applied Mathematical Modelling</i> , 2022, 104, 628-643.	4.2	10
4	Omnidirectional reflection control of plane waves via giant magnetostrictive materials. <i>Applied Physics Express</i> , 2022, 15, 024001.	2.4	2
5	Non-homogeneous cross section variation enhanced flexoelectric coupling in semiconductor beams and its application in charge carrier redistribution. <i>Journal of Applied Physics</i> , 2022, 131, 065701.	2.5	1
6	Resonance Analysis of Piezoelectric Bulk Acoustic Wave Devices Based on YCOB Crystals with Monoclinic Symmetry Excited by Lateral Electric Fields. <i>Crystals</i> , 2022, 12, 542.	2.2	1
7	The flexural-wave-based lens design for energy focusing via the trajectory prediction and the phase modulation. <i>Energy</i> , 2021, 220, 119716.	8.8	12
8	A Theoretical Model for Analyzing the Thickness-Shear Vibration of a Circular Quartz Crystal Plate With Multiple Concentric Ring Electrodes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 1808-1818.	3.0	3
9	A general dynamic theoretical model of elastic micro-structures with consideration of couple stress effects and its application in mechanical analysis of size-dependent properties. <i>Acta Mechanica</i> , 2020, 231, 471-488.	2.1	7
10	Magneto-mechanical coupling characteristic analysis of a magnetic energy nanoharvester with surface effect. <i>Applied Mathematical Modelling</i> , 2020, 77, 1762-1779.	4.2	11
11	A general dynamic model based on Mindlin's high-frequency theory and the microstructure effect. <i>Acta Mechanica</i> , 2020, 231, 3847-3869.	2.1	11
12	Flexural waves in a periodic non-uniform Euler-Bernoulli beam: Analysis for arbitrary contour profiles and applications to wave control. <i>International Journal of Mechanical Sciences</i> , 2020, 188, 105948.	6.7	15
13	A fully-coupled dynamic model for the fundamental shear horizontal wave generation in a PZT activated SHM system. <i>Mechanical Systems and Signal Processing</i> , 2019, 116, 916-932.	8.0	14
14	Thermal-mechanical-electrical analysis of a nano-scaled energy harvester. <i>Energy</i> , 2019, 185, 862-874.	8.8	8
15	The SH0 wave manipulation in graded stubbed plates and its application to wave focusing and frequency separation. <i>Smart Materials and Structures</i> , 2019, 28, 115004.	3.5	18
16	A generalized dynamic model of nanoscale surface acoustic wave sensors and its applications in Love wave propagation and shear-horizontal vibration. <i>Applied Mathematical Modelling</i> , 2019, 75, 101-115.	4.2	11
17	Coupled Extensional and Flexural Motions of a Two-Layer Plate With Interface Slip. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2019, 141, .	1.6	1
18	Refraction behavior investigation and focusing control of phononic crystals under external magnetic fields. <i>Ultrasonics</i> , 2019, 96, 261-266.	3.9	6

#	ARTICLE	IF	CITATIONS
19	One-dimensional dynamic equations of a piezoelectric semiconductor beam with a rectangular cross section and their application in static and dynamic characteristic analysis. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2018, 39, 685-702.	3.6	19
20	Effects of the imperfect interface and viscoelastic loading on vibration characteristics of a quartz crystal microbalance. <i>Acta Mechanica</i> , 2018, 229, 2967-2977.	2.1	4
21	Shear horizontal wave propagation in a periodic stubbed plate and its application in rainbow trapping. <i>Ultrasonics</i> , 2018, 84, 244-253.	3.9	19
22	The mechanical analysis of thermo-magneto-electric laminated composites in nanoscale with the consideration of surface and flexoelectric effects. <i>Smart Materials and Structures</i> , 2018, 27, 015018.	3.5	12
23	An analytical model of a broadband magnetic energy nanoharvester array with consideration of flexoelectricity and surface effect. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 155304.	2.8	9
24	Wave bandgap formation and its evolution in two-dimensional phononic crystals composed of rubber matrix with periodic steel quarter-cylinders. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850037.	2.0	4
25	The investigation of trapped thickness shear modes in a contoured AT-cut quartz plate using the power series expansion technique. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 015301.	2.8	3
26	Adhesive nonlinearity in Lamb-wave-based structural health monitoring systems. <i>Smart Materials and Structures</i> , 2017, 26, 025019.	3.5	29
27	Propagation of thickness shear waves in a periodically corrugated quartz crystal plate and its application exploration in acoustic wave filters. <i>Ultrasonics</i> , 2017, 77, 100-109.	3.9	8
28	The establishment of coupled magneto-electro-thermo-elastic theory with the consideration of surface and non-local effects and its application in laminated nano-devices. <i>Composite Structures</i> , 2017, 179, 541-551.	5.8	10
29	In-Fiber Optic Salinity Sensing: A Potential Application for Offshore Concrete Structure Protection. <i>Sensors</i> , 2017, 17, 962.	3.8	9
30	Acoustically induced transparency by using concentric spherical shells with coaxial aperture array. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	7
31	Two-dimensional linear elasticity theory of magneto-electro-elastic plates considering surface and nonlocal effects for nanoscale device applications. <i>Smart Materials and Structures</i> , 2016, 25, 095026.	3.5	22
32	Vibration analysis of piezoelectric ceramic circular nanoplates considering surface and nonlocal effects. <i>Composite Structures</i> , 2016, 140, 758-775.	5.8	76
33	Mechanical analysis on extensional and flexural deformations of a thermo-piezoelectric crystal beam with rectangular cross section. <i>European Journal of Mechanics, A/Solids</i> , 2016, 55, 35-44.	3.7	5
34	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
35	The application of second-order approximation of Taylor series in thickness shear vibration analysis of quartz crystal microbalances. <i>Ultrasonics</i> , 2015, 58, 96-103.	3.9	4
36	Effects of semiconduction on electromechanical energy conversion in piezoelectrics. <i>Smart Materials and Structures</i> , 2015, 24, 025021.	3.5	59

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37	Bioinspired engineering of honeycomb structure – Using nature to inspire human innovation. <i>Progress in Materials Science</i> , 2015, 74, 332-400.	32.8	501
38	Excitation and propagation of shear horizontal waves in a piezoelectric layer imperfectly bonded to a metal or elastic substrate. <i>Acta Mechanica</i> , 2015, 226, 267-284.	2.1	33
39	A comparison between the epoxy-bonded layer structure and shear-lag model in a thickness-shear mode circular cylindrical piezoelectric transformer. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014, 46, 693-708.	0.6	0
40	Effect of an imperfect interface in a quartz crystal microbalance for detecting the properties of an additional porous layer. <i>Journal of Applied Physics</i> , 2014, 115, 054502.	2.5	11
41	The anti-plane vibration of a quartz plate with an additional partial non-uniform mass layer for acoustic wave sensing. <i>Acta Mechanica</i> , 2013, 224, 1397-1414.	2.1	2
42	A piezoelectric energy harvester with increased bandwidth based on beam flexural vibrations in perpendicular directions. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 2214-2218.	3.0	10
43	A new trapped mode caused by local defect or thermal inhomogeneity. , 2013, , .		0
44	Effects of interface bonding on acoustic wave generation in an elastic body by surface-mounted piezoelectric transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 1957-1963.	3.0	2
45	Propagation of the Bleustein–Gulyaev waves in a functionally graded transversely isotropic electro-magneto-elastic half-space. <i>European Journal of Mechanics, A/Solids</i> , 2013, 37, 17-23.	3.7	24
46	Investigation of trapped thickness-twist waves induced by functionally graded piezoelectric material in an inhomogeneous plate. <i>Smart Materials and Structures</i> , 2013, 22, 095021.	3.5	5
47	Effects of the viscoelastic interface bonding on a thickness-shear mode circular cylindrical piezoelectric transformer. <i>Journal of Intelligent Material Systems and Structures</i> , 2013, 24, 1888-1896.	2.5	5
48	The Theoretical and Numerical Analysis of Thickness-Shear Mode in a Two-Layered Piezoelectric Plate Transformer With a Viscoelastic Interface. , 2013, , .		0
49	Bleustein–Gulyaev waves in a transversely isotropic piezoelectric layered structure with an imperfectly bonded interface. <i>Smart Materials and Structures</i> , 2012, 21, 045009.	3.5	18
50	A three-layer structure model for the effect of a soft middle layer on Love waves propagating in layered piezoelectric systems. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 1087-1097.	3.4	24
51	The anti-plane vibration of quartz plate with an additional partial non-uniform mass layer. , 2012, , .		0
52	Thickness-shear vibration of an AT-cut quartz resonator with a hyperbolic contour. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 1006-1012.	3.0	23
53	Propagation behaviors of thickness–twist modes in an inhomogeneous piezoelectric plate with two imperfectly bonded interfaces. <i>Ultrasonics</i> , 2012, 52, 33-38.	3.9	6
54	The antiplane vibration of mass sensor with an inhomogeneous weak interface. , 2011, , .		0

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55	Propagation of thickness-twist waves in an inhomogeneous piezoelectric plate with an imperfectly bonded interface. <i>Acta Mechanica</i> , 2011, 221, 11-22.	2.1	5
56	Bleustein-Gulyaev waves in 6mm piezoelectric materials loaded with a viscous liquid layer of finite thickness. <i>International Journal of Solids and Structures</i> , 2010, 47, 3513-3518.	2.7	21