Peng Li

List of Publications by Year
in descending order

56	1,132	623734	414414
papers	citations	14 h-index	32 g-index

56	56	56	997
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioinspired engineering of honeycomb structure â€“ Using nature to inspire human innovation. Progress in Materials Science, 2015, 74, 332-400.	32.8	501
2	Vibration analysis of piezoelectric ceramic circular nanoplates considering surface and nonlocal effects. Composite Structures, 2016, 140, 758-775.	5.8	76
3	Effects of semiconduction on electromechanical energy conversion in piezoelectrics. Smart Materials and Structures, 2015, 24, 025021.	3.5	59
4	Excitation and propagation of shear horizontal waves in a piezoelectric layer imperfectly bonded to a metal or elastic substrate. Acta Mechanica, 2015, 226, 267-284.	2.1	33
5	Adhesive nonlinearity in Lamb-wave-based structural health monitoring systems. Smart Materials and Structures, 2017, 26, 025019.	3.5	29
6	A three-layer structure model for the effect of a soft middle layer on Love waves propagating in layered piezoelectric systems. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 1087-1097.	3.4	24
7	Propagation of the Bleusteinâ€“Gulyaev waves in a functionally graded transversely isotropic electro-magneto-elastic half-space. European Journal of Mechanics, A/Solids, 2013, 37, 17-23.	3.7	24
8	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.	3.0	23
9	Two-dimensional linear elasticity theory of magneto-electro-elastic plates considering surface and nonlocal effects for nanoscale device applications. Smart Materials and Structures, 2016, 25, 095026.	3.5	22
10	Bleusteinâ€“Gulyaev waves in 6mm piezoelectric materials loaded with a viscous liquid layer of finite thickness. International Journal of Solids and Structures, 2010, 47, 3513-3518.	2.7	21
11	One-dimensional dynamic equations of a piezoelectric semiconductor beam with a rectangular cross section and their application in static and dynamic characteristic analysis. Applied Mathematics and Mechanics (English Edition), 2018, 39, 685-702.	3.6	19
12	Shear horizontal wave propagation in a periodic stubbed plate and its application in rainbow trapping. Ultrasonics, 2018, 84, 244-253.	3.9	19
13	Bleusteinâ€“Gulyaev waves in a transversely isotropic piezoelectric layered structure with an imperfectly bonded interface. Smart Materials and Structures, 2012, 21, 045009.	3.5	18
14	The SH0 wave manipulation in graded stubbed plates and its application to wave focusing and frequency separation. Smart Materials and Structures, 2019, 28, 115004.	3.5	18
15	Flexural waves in a periodic non-uniform Euler-Bernoulli beam: Analysis for arbitrary contour profiles and applications to wave control. International Journal of Mechanical Sciences, 2020, 188, 105948.	6.7	15
16	A fully-coupled dynamic model for the fundamental shear horizontal wave generation in a PZT activated SHM system. Mechanical Systems and Signal Processing, 2019, 116, 916-932.	8.0	14
17	The mechanical analysis of thermo-magneto-electric laminated composites in nanoscale with the consideration of surface and flexoelectric effects. Smart Materials and Structures, 2018, 27, 015018.	3.5	12
18	The flexural-wave-based lens design for energy focusing via the trajectory prediction and the phase modulation. Energy, 2021, 220, 119716.	8.8	12

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19	Effect of an imperfect interface in a quartz crystal microbalance for detecting the properties of an additional porous layer. Journal of Applied Physics, 2014, 115, 054502.	2.5	11
20	A generalized dynamic model of nanoscale surface acoustic wave sensors and its applications in Love wave propagation and shear-horizontal vibration. Applied Mathematical Modelling, 2019, 75, 101-115.	4.2	11
21	Magneto-mechanical coupling characteristic analysis of a magnetic energy nanoharvester with surface effect. Applied Mathematical Modelling, 2020, 77, 1762-1779.	4.2	11
22	A general dynamic model based on Mindlinâ€™s high-frequency theory and the microstructure effect. Acta Mechanica, 2020, 231, 3847-3869.	2.1	11
23	A piezoelectric energy harvester with increased bandwidth based on beam flexural vibrations in perpendicular directions. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2214-2218.	3.0	10
24	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. Composite Structures, 2017, 179, 541-551.	5.8	10
25	Model and performance analysis of non-uniform piezoelectric semiconductor nanofibers. Applied Mathematical Modelling, 2022, 104, 628-643.	4.2	10
26	In-Fiber Optic Salinity Sensing: A Potential Application for Offshore Concrete Structure Protection. Sensors, 2017, 17, 962.	3.8	9
27	An analytical model of a broadband magnetic energy nanoharvester array with consideration of flexoelectricity and surface effect. Journal Physics D: Applied Physics, 2018, 51, 155304.	2.8	9
28	Propagation of thickness shear waves in a periodically corrugated quartz crystal plate and its application exploration in acoustic wave filters. Ultrasonics, 2017, 77, 100-109.	3.9	8
29	Thermal-mechanical-electrical analysis of a nano-scaled energy harvester. Energy, 2019, 185, 862-874.	8.8	8
30	Impact of PN junction inhomogeneity on the piezoelectric fields of acoustic waves in piezo-semiconductive fibers. Ultrasonics, 2022, 120, 106660.	3.9	8
31	Acoustically induced transparency by using concentric spherical shells with coaxial aperture array. Applied Physics Letters, 2016, 109, .	3.3	7
32	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. Acta Mechanica, 2020, 231, 471-488.	2.1	7
33	Propagation behaviors of thicknessâ€“twist modes in an inhomogeneous piezoelectric plate with two imperfectly bonded interfaces. Ultrasonics, 2012, 52, 33-38.	3.9	6
34	Refraction behavior investigation and focusing control of phononic crystals under external magnetic fields. Ultrasonics, 2019, 96, 261-266.	3.9	6
35	Propagation of thickness-twist waves in an inhomogeneous piezoelectric plate with an imperfectly bonded interface. Acta Mechanica, 2011, 221, 11-22.	2.1	5
36	Investigation of trapped thickness-twist waves induced by functionally graded piezoelectric material in an inhomogeneous plate. Smart Materials and Structures, 2013, 22, 095021.	3.5	5

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37	Effects of the viscoelastic interface bonding on a thickness-shear mode circular cylindrical piezoelectric transformer. Journal of Intelligent Material Systems and Structures, 2013, 24, 1888-1896.	2.5	5
38	Mechanical analysis on extensional and flexural deformations of a thermo-piezoelectric crystal beam with rectangular cross section. European Journal of Mechanics, A/Solids, 2016, 55, 35-44.	3.7	5
39	The application of second-order approximation of Taylor series in thickness shear vibration analysis of quartz crystal microbalances. Ultrasonics, 2015, 58, 96-103.	3.9	4
40	Effects of the imperfect interface and viscoelastic loading on vibration characteristics of a quartz crystal microbalance. Acta Mechanica, 2018, 229, 2967-2977.	2.1	4
41	Wave bandgap formation and its evolution in two-dimensional phononic crystals composed of rubber matrix with periodic steel quarter-cylinders. International Journal of Modern Physics B, 2018, 32, 1850037.	2.0	4
42	The investigation of trapped thickness shear modes in a contoured AT-cut quartz plate using the power series expansion technique. Journal Physics D: Applied Physics, 2018, 51, 015301.	2.8	3
43	A Theoretical Model for Analyzing the Thickness-Shear Vibration of a Circular Quartz Crystal Plate With Multiple Concentric Ring Electrodes. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1808-1818.	3.0	3
44	Flexural wave control via the profile modulation of non-uniform Timoshenko beams. Mechanics of Materials, 2022, 165, 104162.	3.2	3
45	The anti-plane vibration of a quartz plate with an additional partial non-uniform mass layer for acoustic wave sensing. Acta Mechanica, 2013, 224, 1397-1414.	2.1	2
46	Effects of interface bonding on acoustic wave generation in an elastic body by surface-mounted piezoelectric transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1957-1963.	3.0	2
47	Omnidirectional reflection control of plane waves via giant magnetostrictive materials. Applied Physics Express, 2022, 15, 024001.	2.4	2
48	Extensional Waves in a Sandwich Plate With Interface Slip. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.6	1
49	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
50	Non-homogeneous cross section variation enhanced flexoelectric coupling in semiconductor beams and its application in charge carrier redistribution. Journal of Applied Physics, 2022, 131, 065701.	2.5	1
51	Resonance Analysis of Piezoelectric Bulk Acoustic Wave Devices Based on YCOB Crystals with Monoclinic Symmetry Excited by Lateral Electric Fields. Crystals, 2022, 12, 542.	2.2	1
52	The antiplane vibration of mass sensor with an inhomogeneous weak interface. , 2011, , .		0
53	The anti-plane vibration of quartz plate with an additional partial non-uniform mass layer. , 2012, , .		0
54	A new trapped mode caused by local defect or thermal inhomogeneity. , 2013, , .		0

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55	The Theoretical and Numerical Analysis of Thickness-Shear Mode in a Two-Layered Piezoelectric Plate Transformer With a Viscoelastic Interface. , 2013, , .		0
56	A comparison between the epoxy-bonded layer structure and shear-lag model in a thickness-shear mode circular cylindrical piezoelectric transformer. International Journal of Applied Electromagnetics and Mechanics, 2014, 46, 693-708.	0.6	0