List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Impact of PN junction inhomogeneity on the piezoelectric fields of acoustic waves in piezo-semiconductive fibers. Ultrasonics, 2022, 120, 106660.	2.1	8
2	Model and performance analysis of non-uniform piezoelectric semiconductor nanofibers. Applied Mathematical Modelling, 2022, 104, 628-643.	2.2	10
3	Electromechanical behaviors in piezotronic quantum wells based on a quantum-corrected phenomenological theory. Journal of Applied Physics, 2022, 131, 055702.	1.1	1
4	Selective Detection of Liquid Viscosity Using Acoustic Plate Waves with In-Plane Polarization. Sensors, 2022, 22, 2727.	2.1	6
5	Resonance Analysis of Piezoelectric Bulk Acoustic Wave Devices Based on YCOB Crystals with Monoclinic Symmetry Excited by Lateral Electric Fields. Crystals, 2022, 12, 542.	1.0	1
6	Three dimensional modified BEM analysis of forward scattering problems in elastic solids. Engineering Analysis With Boundary Elements, 2021, 122, 145-154.	2.0	7
7	A More Accurate Reconstruction Method for Detecting Large-Depth Defects in Plates Using SH Guided Waves. Acta Mechanica Solida Sinica, 2021, 34, 174-183.	1.0	2
8	A Rapid and Accurate Technique With Updating Strategy for Surface Defect Inspection of Pipelines. IEEE Access, 2021, 9, 16041-16052.	2.6	5
9	Microstructural topology optimization of periodic beam structures based on the relaxed Saint-Venant solution. Structural and Multidisciplinary Optimization, 2021, 63, 1813-1837.	1.7	2
10	Multiple crossing points of Lamb wave propagating in a magneto-electro-elastic composite plate. Archive of Applied Mechanics, 2021, 91, 2781-2793.	1.2	4
11	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.	1.7	3
12	Static and Dynamic Analysis of a Piezoelectric Semiconductor Cantilever Under Consideration of Flexoelectricity and Strain Gradient Elasticity. Acta Mechanica Solida Sinica, 2021, 34, 673-686.	1.0	20
13	Design of a new type of omnidirectional shear-horizontal EMAT by the use of half-ring magnets and PCB technology. Ultrasonics, 2021, 115, 106465.	2.1	7
14	Effects of edge and interior stresses on electrical behaviors of piezoelectric semiconductor films. Ferroelectrics, 2021, 571, 96-108.	0.3	8
15	A convenient approach to tuning the local piezopotential of an extensional piezoelectric semiconductor fiber via composite structure design. Nano Energy, 2021, 90, 106626.	8.2	6
16	A New Inductive Debris Sensor Based on Dual-Excitation Coils and Dual-Sensing Coils for Online Debris Monitoring. Sensors, 2021, 21, 7556.	2.1	14
17	Two-Dimensional Coupling Vibration Analysis of Laterally Acoustically Coupled Two-Port Thin-Film Bulk Acoustic Resonators. Acta Mechanica Solida Sinica, 2020, 33, 464-478.	1.0	6
18	A general approach for dispersion relations in multilayered structures with an arbitrary number of piezoelectric layers and elastic layers. Acta Mechanica, 2020, 231, 489-502	1.1	5

#	Article	IF	CITATIONS
19	Suppression of Spurious Lateral Modes and Undesired Coupling Modes in Frame-Like FBARs by 2-D Theory. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 180-190.	1.7	9
20	Influence of Surface Conductivity on Dispersion Curves, Mode Shapes, Stress, and Potential for Lamb Waves Propagating in Piezoelectric Plate. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 855-862.	1.7	10
21	Effects of electric/magnetic impact on the transient fracture of interface crack in piezoelectric-piezomagnetic sandwich structure: anti-plane case. Applied Mathematics and Mechanics (English Edition), 2020, 41, 139-156.	1.9	2
22	A novel approach to quantitative predictions of high-frequency coupled vibrations in layered piezoelectric plates. International Journal of Engineering Science, 2020, 157, 103407.	2.7	10
23	Mechanical Manipulation of Electrical Behaviors of Piezoelectric Semiconductor Nanofibers by Time-Dependent Stresses. Acta Mechanica Solida Sinica, 2020, 33, 579-585.	1.0	9
24	Circumferential defect detection using ultrasonic guided waves. Engineering Computations, 2020, 37, 1923-1943.	0.7	17
25	An analytical approach to reconstruction of axisymmetric defects in pipelines using T(0, 1) guided waves. Applied Mathematics and Mechanics (English Edition), 2020, 41, 1479-1492.	1.9	10
26	Two-Dimensional Plate Theory for the Analysis of Coupling Vibrations in Shear Mode FBARs. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1897-1908.	1.7	5
27	The Design of a Frame-Like ZnO FBAR Sensor for Achieving Uniform Mass Sensitivity Distributions. Sensors, 2020, 20, 2408.	2.1	6
28	Waves in a generally anisotropic viscoelastic composite laminated bilayer: Impact of the imperfect interface from perfect to complete delamination. International Journal of Solids and Structures, 2020, 202, 262-277.	1.3	17
29	Propagation behavior of ultrasonic Love waves in functionally graded piezoelectric-piezomagnetic materials with exponential variation. Mechanics of Materials, 2020, 148, 103492.	1.7	16
30	Lateral Size-Dependence in UHF Mode-Coupled ZnO FBARs to Suppress Undesirable Eigen-Modes and Weaken Mounting Effect. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1647-1655.	1.7	4
31	Design Considerations for Frequency Shifts in a Laterally Finite FBAR Sensor in Contact With the Newtonian Liquid. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2402-2412.	1.7	6
32	Frequency Spectra of Coupling Vibration in High-Frequency Thickness-Shear ZnO Thin Film Resonator Applied in Sensing Field Based on the Hamilton Principle. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1331-1339.	1.7	5
33	Effects of mode couplings on the vibration characteristics of partially electroded thin-film bulk acoustic wave resonators. AIP Advances, 2019, 9, 065203.	0.6	6
34	I-V characteristics of a piezoelectric semiconductor nanofiber under local tensile/compressive stress. Journal of Applied Physics, 2019, 126, .	1.1	37
35	Piezopotential in a composite cantilever of piezoelectric dielectrics and nonpiezoelectric semiconductors produced by shear force through e ₁₅ . Materials Research Express, 2019, 6, 115917.	0.8	19
36	Forward and Inverse Analysis of Love Wave Scattering by Interface Cavities. Journal of Theoretical and Computational Acoustics, 2019, 27, 1850049.	0.5	5

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37	Dispersion curves, mode shapes, stresses and energies of SH and Lamb waves in layered elastic nanoplates with surface/interface effect. International Journal of Engineering Science, 2019, 142, 170-184.	2.7	31
38	Electric potential and carrier distribution in a piezoelectric semiconductor nanowire in time-harmonic bending vibration. Nano Energy, 2018, 43, 22-28.	8.2	107
39	A semi-analytical solution for electric double layers near an elliptical cylinder. Acta Mechanica Sinica/Lixue Xuebao, 2018, 34, 62-67.	1.5	2
40	Forward and Inverse Researches on Scattering of Ultrasonic Surface Waves by Near-Surface. , 2018, , .		0
41	A novel approach to surface defect detection. International Journal of Engineering Science, 2018, 133, 181-195.	2.7	22
42	Forced coupling vibration analysis of FBAR based on two-dimensional equations associated with state-vector approach. AIP Advances, 2018, 8, .	0.6	10
43	Forward Analysis of Love-Wave Scattering due to a Cavity-Like Defect. Shock and Vibration, 2018, 2018, 1-11.	0.3	2
44	Coupling Vibration Analysis of Trapped-Energy Rectangular Quartz Resonators by Variational Formulation of Mindlin's Theory. Sensors, 2018, 18, 986.	2.1	4
45	Trapped-Energy Thickness-Extensional Mode of a Partially Electroded ZnO Thin-Film Resonator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1669-1679.	1.7	8
46	Mode couplings in high-frequency thickness-extensional vibrations of ZnO thin film resonator based on weak boundary condition. International Journal of Mechanical Sciences, 2018, 148, 223-230.	3.6	8
47	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
48	Accurate characterization of 3D dispersion curves and mode shapes of waves propagating in generally anisotropic viscoelastic/elastic plates. International Journal of Solids and Structures, 2018, 150, 52-65.	1.3	35
49	Two-dimensional equations for piezoelectric thin-film acoustic wave resonators. International Journal of Solids and Structures, 2017, 110-111, 170-177.	1.3	42
50	Bending and free vibration analyses of antisymmetrically laminated carbon nanotube-reinforced functionally graded plates. Journal of Composite Materials, 2017, 51, 3111-3125.	1.2	27
51	An elastic electrode model for wave propagation analysis in piezoelectric layered structures of film bulk acoustic resonators. Acta Mechanica Solida Sinica, 2017, 30, 263-270.	1.0	19
52	Thickness-shear vibration of a Z-strip AT-cut quartz crystal plate with nonuniform electrode pairs. Ferroelectrics, 2017, 506, 48-62.	0.3	2
53	Effects of aspect ratio on the mode couplings of thin-film bulk acoustic wave resonators. AIP Advances, 2017, 7, 055113.	0.6	15
54	Noise processing of flaw reconstruction by wavelet transform in ultrasonic guided SH waves. Meccanica, 2017, 52, 2307-2328.	1.2	6

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55	A Semi-Analytical Solution for the Thickness-Vibration of Centrally Partially-Electroded Circular AT-Cut Quartz Resonators. Sensors, 2017, 17, 1820.	2.1	8
56	Reconstruction of surface flaw shape using reflection data of guided Rayleigh surface waves. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 41-48.	0.3	4
57	Vibration optimization of ZnO thin film bulk acoustic resonator with ring electrodes. AIP Advances, 2016, 6, .	0.6	15
58	Energy trapping of thickness-extensional modes in thin film bulk acoustic wave filters. AIP Advances, 2016, 6, .	0.6	23
59	Effects of unequal electrode pairs on an x-strip thickness-shear mode multi-channel quartz crystal microbalance. Ultrasonics, 2016, 72, 73-79.	2.1	5
60	The properties of thickness-twist (TT) wave modes in a rotated Y-cut quartz plate with a functionally graded material top layer. Ultrasonics, 2016, 64, 62-68.	2.1	1
61	Direct Probing of Dispersion Quality of ZrO2 Nanoparticles Coated by Polyelectrolyte at Different Concentrated Suspensions. Nanoscale Research Letters, 2015, 10, 456.	3.1	17
62	Thickness-shear and thickness-twist modes in an AT-cut quartz acoustic wave filter. Ultrasonics, 2015, 58, 1-5.	2.1	12
63	Effects of nonlinearity on transient processes in AT-cut quartz thickness-shear resonators. Acta Mechanica Solida Sinica, 2015, 28, 347-352.	1.0	4
64	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
65	Analysis of thickness-shear and thickness-twist modes of AT-cut quartz acoustic wave resonator and filter. Applied Mathematics and Mechanics (English Edition), 2015, 36, 1527-1538.	1.9	7
66	Investigation of quasi lateral-field-excitation on (yxl)-17º LiNbO3 single crystal. Ultrasonics, 2014, 54, 967-970.	2.1	2
67	Analysis of guided wave propagation in functionally graded magneto-electro elastic composite. Waves in Random and Complex Media, 0, , 1-19.	1.6	5
68	Fracture behavior of an interface crack in a magnetoelectric sandwich structure under electric field: Effects of the poling directions. Journal of Intelligent Material Systems and Structures, 0, , 1045389X2110722.	1.4	0