## Abdelkrim Khelif

List of Publications by Year in descending order

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147 6,259 papers citations

40 h-index 77 g-index

148 all docs

148 docs citations 148 times ranked 2529 citing authors

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Topological surface wave metamaterials for robust vibration attenuation and energy harvesting. Mechanics of Advanced Materials and Structures, 2022, 29, 4759-4767.                  | 2.6 | 16        |
| 2  | A perspective on elastic metastructures for energy harvesting. Applied Physics Letters, 2022, 120, .   | 3.3 | 30        |
| 3  | Towards Acoustic Radiation Free Lamb Wave Resonators for High-Resolution Gravimetric Biosensing. IEEE Sensors Journal, 2021, 21, 2725-2733.  | 4.7 | 12        |
| 4  | Reconfigurable locally resonant surface acoustic demultiplexing behavior in ZnO-based phononic crystal. Journal of Applied Physics, 2021, 129, 024901.                               | 2.5 | 3         |
| 5  | Acoustic radiation-free surface phononic crystal resonator for in-liquid low-noise gravimetric detection. Microsystems and Nanoengineering, 2021, 7, 8.                              | 7.0 | 18        |
| 6  | Investigation of Ultrasonic Opacity Based on Quarter-Wave Mode Resonance Using a Two-Dimensional Silicon Phononic Crystal. Lecture Notes in Networks and Systems, 2021, , 1044-1050. | 0.7 | 0         |
| 7  | Elastic Metasurfaces for Deep and Robust Subwavelength Focusing and Imaging. Physical Review Applied, 2021, 15, .  | 3.8 | 53        |
| 8  | Nonlinear effects in locally resonant nanostrip phononic metasurface at GHz frequencies. Applied Physics Letters, 2021, 118, .   | 3.3 | 5         |
| 9  | Enhanced acoustic pressure sensors based on coherent perfect absorber-laser effect. Journal of Applied Physics, 2021, 129, .   | 2.5 | 8         |
| 10 | An acoustoelectric-induced tailorable coupled resonator surface acoustic waveguide. Journal Physics D: Applied Physics, 2021, 54, 225301.  | 2.8 | 4         |
| 11 | Experimental realization of a pillared metasurface for flexural wave focusing. APL Materials, 2021, 9, .   | 5.1 | 35        |
| 12 | Shear Horizontal Phononic Metasurface for In-Liquid Gravimetric Biosensing. IEEE Electron Device Letters, 2021, 42, 915-918.   | 3.9 | 3         |
| 13 | Nonreciprocity of Gigahertz Surface Acoustic Wave Based on Mode Conversion in an Inclined Phononic Crystal Heterojunction. Physical Review Applied, 2021, 16, .                      | 3.8 | 1         |
| 14 | Nonlinear Coupling of Phononic Resonators Induced by Surface Acoustic Waves. Physical Review Applied, 2021, 16, .  | 3.8 | 3         |
| 15 | Experimental evidence of high spatial confinement of elastic energy in a phononic cantilever. Applied Physics Letters, 2021, 119, 203501.  | 3.3 | O         |
| 16 | Computation of acoustic properties and design guidelines of periodic Biot-modeled foams. Applied Acoustics, 2020, 168, 107428.   | 3.3 | 13        |
| 17 | Computation of dispersion diagrams for periodic porous materials modeled as equivalent fluids.<br>Mechanical Systems and Signal Processing, 2020, 142, 106749.                       | 8.0 | 18        |
| 18 | Experimental Demonstration of a Multichannel Elastic Wave Filter in a Phononic Crystal Slab. Applied Sciences (Switzerland), 2020, 10, 4594.   | 2.5 | 18        |

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| 19 | Observation of topological gravity-capillary waves in a water wave crystal. New Journal of Physics, 2019, 21, 083031.   | 2.9  | 18        |
| 20 | Dipole states and coherent interaction in surface-acoustic-waveÂcoupled phononic resonators. Nature Communications, 2019, 10, 4583.   | 12.8 | 20        |
| 21 | Design and experimental validation of a temperature-driven adaptive phononic crystal slab. Smart Materials and Structures, 2019, 28, 035007.  | 3.5  | 19        |
| 22 | Ultrasonic insulation using a Helmholtz-like phononic crystal with a slight filling factor. , 2019, , .   |      | 1         |
| 23 | A perfect Fresnel acoustic reflector implemented by a Fano-resonant metascreen. Journal of Applied Physics, 2018, 123, .  | 2.5  | 27        |
| 24 | Selective Band Gap to Suppress the Spurious Acoustic Mode in Film Bulk Acoustic Resonator Structures. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .  | 1.6  | 6         |
| 25 | Resonant Beam Steering and Carpet Cloaking Using an Acoustic Transformational Metascreen.<br>Physical Review Applied, 2018, 10, .   | 3.8  | 21        |
| 26 | Extensive tailorability of sound absorption using acoustic metamaterials. Journal of Applied Physics, 2018, 124, .  | 2.5  | 17        |
| 27 | Evidence of a broadband gap in a phononic crystal strip. Ultrasonics, 2017, 78, 51-56.  | 3.9  | 16        |
| 28 | Design and experimental validation of an adaptive phononic crystal using highly dissipative polymeric material interface. Proceedings of SPIE, 2017, , .  | 0.8  | 0         |
| 29 | Subwavelength sound screening by coupling space-coiled Fabry-Perot resonators. Europhysics Letters, 2017, 119, 36001.   | 2.0  | 1         |
| 30 | Surface-Wave Coupling to Single Phononic Subwavelength Resonators. Physical Review Applied, 2017, 8, .  | 3.8  | 22        |
| 31 | Extraordinary nonlinear transmission modulation in a doubly resonant acousto-optical structure. Optica, 2017, 4, 1245.  | 9.3  | 15        |
| 32 | Notice of Removal: Coupling of mechanical resonators under surface acoustic wave excitation. , 2017,  |      | 0         |
| 33 | Guiding and confinement of interface acoustic waves in solid-fluid pillar-based phononic crystals. AIP Advances, 2016, 6, 121703.   | 1.3  | 7         |
| 34 | Guidance of surface elastic waves along a linear chain of pillars. AIP Advances, 2016, 6, .   | 1.3  | 23        |
| 35 | Density-near-zero using the acoustically induced transparency of a Fano acoustic resonator. Europhysics Letters, 2016, 116, 46004.  | 2.0  | 9         |
| 36 | Preface to Special Topic: Selected Articles from Phononics 2015: The Third International Conference on Phononic Crystals/Metamaterials, Phonon Transport and Phonon Coupling, 31 May-5 June 2015, Paris, France. AIP Advances, 2016, 6, 121501. | 1.3  | 2         |

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| 37 | Solid-fluid interaction in a pillar-based phononic crystal. , 2016, , .   |     | O         |
| 38 | Complete band gap in a pillar-based piezoelectric phononic crystal slab. , 2016, , .  |     | 0         |
| 39 | Evidence of a large elastic band gap in a one-dimensional phononic crystal. , 2016, , .   |     | 0         |
| 40 | How diffraction limits ultrasonic screening in phononic plate composed of a periodic array of resonant slits. Comptes Rendus Physique, 2016, 17, 518-523. | 0.9 | 1         |
| 41 | Mapping acoustic field distributions of VHF to SHF SAW transducers using a Scanning Electron Microscope. , 2016, , .                                      |     | 1         |
| 42 | Computational Problems and Numerical Techniques for the Analysis of Phononic Crystals. , 2016, , 85-107.  |     | 2         |
| 43 | Future Prospects of Phononic Crystals and Phononic Metamaterials. , 2016, , 239-245.  |     | 2         |
| 44 | Acoustically induced transparency using Fano resonant periodic arrays. Journal of Applied Physics, 2015, 118, .   | 2.5 | 43        |
| 45 | Ultra-wide acoustic band gaps in pillar-based phononic crystal strips. Journal of Applied Physics, 2015, 118, .   | 2.5 | 49        |
| 46 | Experimental evidence of high-frequency complete elastic bandgap in pillar-based phononic slabs. Applied Physics Letters, 2014, 105, .                    | 3.3 | 25        |
| 47 | Subwavelength waveguiding of surface phonons in pillars-based phononic crystal. AIP Advances, 2014, 4, .  | 1.3 | 33        |
| 48 | Physics of band-gap formation and its evolution in the pillar-based phononic crystal structures. Journal of Applied Physics, 2014, 116, .                 | 2.5 | 43        |
| 49 | Superlensing effect for surface acoustic waves in a pillar-based phononic crystal with negative refractive index. Applied Physics Letters, 2014, 105, .   | 3.3 | 40        |
| 50 | Experimental evidence of ultrasonic opacity using the coupling of resonant cavities in a phononic membrane. Applied Physics Letters, 2013, 103, .         | 3.3 | 11        |
| 51 | Locally Resonant Structures for Low Frequency Surface Acoustic Band Gap Applications. Springer Series in Materials Science, 2013, , 43-59.                | 0.6 | 4         |
| 52 | Evidence of Ultrasonic Band Gap in Aluminum Phononic Crystal Beam. Journal of Vibration and Acoustics, Transactions of the ASME, 2013, 135, .             | 1.6 | 11        |
| 53 | Local resonances in phononic crystals and in random arrangements of pillars on a surface. Journal of Applied Physics, 2013, 114, 104503.                  | 2.5 | 66        |
| 54 | Broadband evolution of phononic-crystal-waveguide eigenstates in real- and k-spaces. Scientific Reports, 2013, 3, 3351.                                   | 3.3 | 57        |

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| 55 | Surface acoustic wave guiding in a diffractionless high aspect ratio transducer. Applied Physics Letters, 2013, 102, .   | 3.3 | 6         |
| 56 | Phononic bandgaps in silicon plate with metallic pillars. Electronics Letters, 2012, 48, 1147-1148.  | 1.0 | 3         |
| 57 | All-angle negative refraction for surface acoustic waves in pillar-based two-dimensional phononic structures. New Journal of Physics, 2012, 14, 123030.                                  | 2.9 | 25        |
| 58 | Selected examples in nano-sciences and nano-technologies at FEMTO-ST. International Journal of Nanotechnology, 2012, 9, 887.   | 0.2 | 0         |
| 59 | Surface acoustic waves in pillars-based two-dimensional phononic structures with different lattice symmetries. Journal of Applied Physics, 2012, 112, .                                  | 2.5 | 34        |
| 60 | VHF phononic band gap band pass filters using coupled resonator acoustic waveguides (CRAW)., 2011,,  |     | 0         |
| 61 | VHF phononic band gap band pass filters using coupled resonator acoustic waveguides (CRAW)., 2011,,  |     | 1         |
| 62 | Experimental observation of locally-resonant and Bragg band gaps for surface guided waves in a phononic crystal of pillars. Physical Review B, 2011, 83, .                               | 3.2 | 219       |
| 63 | In-plane confinement and waveguiding of surface acoustic waves through line defects in pillars-based phononic crystal. AIP Advances, $2011,1,\ldots$                                     | 1.3 | 12        |
| 64 | Is there really a sound line limit for surface waves in phononic crystals?. , 2011, , .  |     | 0         |
| 65 | Elastic filter based on coupled resonator waveguides in phononic crystal slabs. Proceedings of SPIE, 2010, , .   | 0.8 | 0         |
| 66 | Locally resonant surface acoustic wave band gaps in a two-dimensional phononic crystal of pillars on a surface. Physical Review B, 2010, 81, .   | 3.2 | 212       |
| 67 | Acoustic confinement and waveguiding with a line-defect structure in phononic crystal slabs. Journal of Applied Physics, 2010, 108, 084515.  | 2,5 | 41        |
| 68 | Polarization state and level repulsion in two-dimensional phononic crystals and waveguides in the presence of material anisotropy. Journal Physics D: Applied Physics, 2010, 43, 185401. | 2.8 | 43        |
| 69 | Support loss suppression in micromechanical resonators by the use of phononic band gap structures. , 2010, , .   |     | 13        |
| 70 | Octave omnidirectional band gap in a three-dimensional phononic crystal. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1621-1625.                   | 3.0 | 27        |
| 71 | Simultaneous two-dimensional phononic and photonic band gaps in opto-mechanical crystal slabs. Optics Express, 2010, 18, 9164.   | 3.4 | 100       |
| 72 | Polarization States in 2D Phononic Crystals and Phononic Crystal Waveguides. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 341-347.                               | 0.2 | 0         |

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| 73 | Improving surface acousto-optical interaction by high aspect ratio electrodes. Journal of Applied Physics, 2009, 106, .  | 2.5 | 7         |
| 74 | A high-quality factor piezoelectric-on-substrate phononic crystal micromechanical resonator. , 2009, , .   |     | 1         |
| 75 | Highly selective electroplated nickel mask for lithium niobate dry etching. Journal of Applied Physics, 2009, 105, .   | 2.5 | 42        |
| 76 | Energy storage and dispersion of surface acoustic waves trapped in a periodic array of mechanical resonators. Journal of Applied Physics, 2009, 105, .   | 2.5 | 45        |
| 77 | Evanescent Bloch waves and the complex band structure of phononic crystals. Physical Review B, 2009, 80, .   | 3.2 | 162       |
| 78 | Photonic and Phononic Band Gap Properties ofÂLithium Niobate. Springer Series in Materials Science, 2009, , 307-336.   | 0.6 | 3         |
| 79 | Two-dimensional phononic crystal slab defect mode micromechanical resonators. Proceedings of SPIE, 2009, , .   | 0.8 | 0         |
| 80 | Evanescent Bloch waves in phononic crystals. Proceedings of SPIE, 2009, , .  | 0.8 | 3         |
| 81 | Ultrasonic and hypersonic phononic crystals. Proceedings of SPIE, 2008, , .  | 0.8 | 1         |
| 82 | The OmniSaw device concept (OmniSAW: Omnidirectional band gap for surface acoustic wave). , 2008, , .  |     | 2         |
| 83 | Band structure of evanescent waves in phononic crystals. , 2008, , .   |     | 0         |
| 84 | Subwavelength focusing of surface acoustic waves generated by an annular interdigital transducer. Applied Physics Letters, 2008, 92, .   | 3.3 | 53        |
| 85 | Lithium niobate surface structuration for phononic crystal fabrication., 2008,,.   |     | 1         |
| 86 | Evidence of large high frequency complete phononic band gaps in silicon phononic crystal plates. Applied Physics Letters, 2008, 92, .  | 3.3 | 194       |
| 87 | P3J-1 Direct Observation of Surface Acoustic Wave Interaction with a Phononic Crystal. Proceedings IEEE Ultrasonics Symposium, 2007, , .   | 0.0 | 0         |
| 88 | Complete phononic bandgaps and bandgap maps in two-dimensional silicon phononic crystal plates. Electronics Letters, 2007, 43, 898.  | 1.0 | 96        |
| 89 | Design guidelines of 1-3 piezoelectric composites dedicated to ultrasound imaging transducers, based on frequency band-gap considerations. Journal of the Acoustical Society of America, 2007, 122, 786-793. | 1.1 | 10        |
| 90 | Scattering of surface acoustic waves by a phononic crystal revealed by heterodyne interferometry. Applied Physics Letters, 2007, 91, 083517.   | 3.3 | 46        |

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| 91  | Waveguiding inside the complete band gap of a phononic crystal slab. Physical Review E, 2007, 76, 056601.  | 2.1  | 100       |
| 92  | Complete band gaps and deaf bands of triangular and honeycomb water-steel phononic crystals. Journal of Applied Physics, 2007, 101, 044903.  | 2.5  | 75        |
| 93  | P4L-3 Anisotropic Wave-Surface Shaped Annular Interdigital Transducer. Proceedings IEEE Ultrasonics Symposium, 2007, , .   | 0.0  | 2         |
| 94  | PO-11 Experimental Study of Complete Band Gaps and Waveguiding Inside Phononic Crystal Slabs. , 2007, , .  |      | 0         |
| 95  | Comprehensive characterization of Surface acoustic wave trapping in a periodic array of high aspect ratio electrodes. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , . | 0.0  | 0         |
| 96  | Modulation of the extraordinary optical transmission by surface acoustic waves. Physical Review B, 2007, 76, .   | 3.2  | 19        |
| 97  | 3E-3 Dispersion and Polarization of Surface Waves Trapped in High Aspect Ratio Electrode Arrays.<br>Proceedings IEEE Ultrasonics Symposium, 2007, , .  | 0.0  | 0         |
| 98  | Complete band gaps in two-dimensional phononic crystal slabs. Physical Review E, 2006, 74, 046610.   | 2.1  | 358       |
| 99  | Lithium niobate phononic crystal for surface acoustic waves. , 2006, , .   |      | 2         |
| 100 | Evidence for complete surface wave band gap in a piezoelectric phononic crystal. Physical Review E, 2006, 73, 065601.  | 2.1  | 274       |
| 101 | 6E-2 Surface Acoustic Wave Trapping in a Periodic Array of High Aspect Ratio Electrodes. , 2006, , .   |      | 1         |
| 102 | Raman-like light scattering from acoustic phonons in photonic crystal fiber. Optics Express, 2006, 14, 4141.   | 3.4  | 96        |
| 103 | Stimulated Brillouin scattering from multi-GHz-guided acoustic phonons in nanostructured photonic crystal fibres. Nature Physics, 2006, 2, 388-392.  | 16.7 | 263       |
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| 106 | Elastic band gaps for surface modes in an ultrasonic lithium niobate phononic crystal. , 2006, 6182, 234.  |      | 10        |
| 107 | Surface acoustic wave trapping in a periodic array of mechanical resonators. Applied Physics Letters, 2006, 89, 083515.  | 3.3  | 60        |
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| 110 | Acoustic channel drop tunneling in a phononic crystal. Applied Physics Letters, 2005, 87, 261912.   | 3.3 | 93        |
| 111 | Equality of the energy and group velocities of bulk acoustic waves in piezoelectric media. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1869-1871.              | 3.0 | 10        |
| 112 | Experimental study of guiding and filtering of acoustic waves in a two dimensional ultrasonic crystal. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, 836-840.                  | 0.8 | 15        |
| 113 | Interaction of waveguide and localized modes in a phononic crystal. Europhysics Letters, 2005, 71, 570-575.   | 2.0 | 47        |
| 114 | Full band gap for surface acoustic waves in a piezoelectric phononic crystal. Physical Review E, 2005, 71, 036607.  | 2.1 | 208       |
| 115 | Phononic band-gap guidance of acoustic modes in photonic crystal fibers. Physical Review B, 2005, 71, .   | 3.2 | 80        |
| 116 | Guided elastic waves along a rod defect of a two-dimensional phononic crystal. Physical Review E, 2004, 69, 067601.   | 2.1 | 67        |
| 117 | Tunable filtering and demultiplexing in phononic crystals with hollow cylinders. Physical Review E, 2004, 69, 046608.   | 2.1 | 263       |
| 118 | Transmission and dispersion modes in phononic crystals with hollow cylinders: application to waveguide structure. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2711-2715. | 0.8 | 10        |
| 119 | Fast FEM/BEM simulation of SAW devices via asymptotic waveform evaluation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 359-363.                                | 3.0 | 18        |
| 120 | Dyadic Green's functions of a laminar plate. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1157-1164.  | 3.0 | 8         |
| 121 | Guiding and bending of acoustic waves in highly confined phononic crystal waveguides. Applied Physics Letters, 2004, 84, 4400-4402.   | 3.3 | 423       |
| 122 | Trapping and guiding of acoustic waves by defect modes in a full-band-gap ultrasonic crystal. Physical Review B, 2003, 68, .  | 3.2 | 269       |
| 123 | Coupling characteristics of localized phonons in photonic crystal fibers. Journal of Applied Physics, 2003, 94, 7944.   | 2.5 | 27        |
| 124 | Out-of-plane propagation of elastic waves in two-dimensional phononic band-gap materials. Physical Review E, 2003, 67, 065602.  | 2.1 | 56        |
| 125 | Two-dimensional phononic crystal with tunable narrow pass band: Application to a waveguide with selective frequency. Journal of Applied Physics, 2003, 94, 1308-1311.                                 | 2.5 | 178       |
| 126 | Transmission and dispersion relations of perfect and defect-containing waveguide structures in phononic band gap materials. Physical Review B, 2003, 68, .  | 3.2 | 178       |

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| 127 | Theory of acoustic scattering by supported ridges at a solid-liquid interface. Physical Review E, 2002, 65, 036601.  | 2.1 | 1         |
| 128 | Phononic crystal with low filling fraction and absolute acoustic band gap in the audible frequency range: A theoretical and experimental study. Physical Review E, 2002, 65, 056608. | 2.1 | 138       |
| 129 | Evidence of Fano-Like Interference Phenomena in Locally Resonant Materials. Physical Review Letters, 2002, 88, 225502.   | 7.8 | 314       |
| 130 | Transmittivity through straight and stublike waveguides in a two-dimensional phononic crystal. Physical Review B, 2002, 65, .  | 3.2 | 128       |
| 131 | Stopping of acoustic waves by sonic polymer-fluid composites. Physical Review E, 2001, 63, 066605.   | 2.1 | 70        |
| 132 | Surface shear horizontal waves associated with a periodic array of wires deposited on a substrate. European Physical Journal B, 2001, 21, 437-445.                                   | 1.5 | 5         |
| 133 | Second-order sound field during megasonic cleaning of patterned silicon wafers: Application to ridges and trenches. Journal of Applied Physics, 2001, 90, 4211-4218.                 | 2.5 | 18        |
| 134 | Generally polarized acoustic waves trapped by high aspect ratio electrode gratings at the surface of a piezoelectric material. Journal of Applied Physics, 2001, 90, 2492-2497.      | 2.5 | 28        |
| 135 | Theoretical calculation of the acoustic force on a patterned silicon wafer during megasonic cleaning. Journal of Applied Physics, 2000, 88, 2423-2429.                               | 2.5 | 21        |
| 136 | Streaming and removal forces due to second-order sound field during megasonic cleaning of silicon wafers. Journal of Applied Physics, 2000, 88, 6821-6835.                           | 2.5 | 28        |
| 137 | Localized and resonant acoustic waves associated with a periodic array of supported wires. Vacuum, 1999, 54, 309-313.  | 3.5 | 2         |
| 138 | Theory of acoustic scattering by a supported wire. Journal of Applied Physics, 1997, 81, 7141-7147.  | 2.5 | 4         |
| 139 | Acoustic scattering by a wire deposited on a planar surface. Surface Science, 1996, 352-354, 1038-1042.  | 1.9 | 1         |
| 140 | Elastic Vibrations of Planar and Deterministic Rough Surfaces. Acta Physica Polonica A, 1996, 89, 129-137.   | 0.5 | 3         |
| 141 | Roughness induced surface acoustic resonances. Progress in Surface Science, 1995, 48, 301-311.   | 8.3 | 4         |
| 142 | Full band gaps for surface acoustic waves in piezoelectric phononic crystals. , 0, , .   |     | 3         |
| 143 | Guiding and filtering acoustic waves in a two-dimensional phononic crystal. , 0, , .   |     | 3         |
| 144 | Fast FEM/BEM computation of SAW harmonic admittance and slowness curves. , 0, , .  |     | 4         |

## ABDELKRIM KHELIF

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| 145 | Hypersonic band gaps in two-dimensional piezoelectric phononic crystal slabs. , 0, , . |    | O         |
| 146 | Silicon phononic crystal for surface acoustic waves., 0,,.                             |    | 0         |
| 147 | Channel drop process of elastic wave in a two dimensional phononic crystal. , 0, , .   |    | 1         |