List of Publications by Year in descending order

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XUE-FENC 7HU

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Efficient realization of on-demand functional ultrasonic fields based on prolate spheroidal wave functions from sampling theorem. Journal of the Acoustical Society of America, 2022, 151, 96-104. | 1.1 | 4 |
| 2 | Reciprocity of thermal diffusion in time-modulated systems. Nature Communications, 2022, 13, 167. | 12.8 | 24 |
| 3 | Observation of Transient Parity-Time Symmetry in Electronic Systems. Physical Review Letters, 2022, 128, 065701. | 7.8 | 39 |
| 4 | Observing localization and delocalization of the flat-band states in an acoustic cubic lattice. Physical Review B, 2022, 105, . | 3.2 | 4 |
| 5 | Square-root-like higher-order topological states in three-dimensional sonic crystals. Journal of Physics Condensed Matter, 2022, 34, 104001. | 1.8 | 11 |
| 6 | Phase-Locking Diffusive Skin Effect. Chinese Physics Letters, 2022, 39, 057801. | 3.3 | 19 |
| 7 | Heat transfer control using a thermal analogue of coherent perfect absorption. Nature Communications, 2022, 13, 2683. | 12.8 | 21 |
| 8 | Far-field super-resolution focusing with weak side lobes and defect detection via an ultrasonic meta-lens of sharp-edge apertures. Applied Physics Letters, 2022, 120, . | 3.3 | 4 |
| 9 | Elastic topological interface states induced by incident angle. International Journal of Mechanical Sciences, 2022, 225, 107359. | 6.7 | 4 |
| 10 | Generating Multistructured Ultrasound via Bioinspired Metaskin Patterning for Lowâ€Threshold and Contactless Control of Living Organisms. Advanced Functional Materials, 2022, 32, . | 14.9 | 9 |
| 11 | Realizing the second harmonic acoustic focusing based on an artificial bubble array. AIP Advances, 2022, 12, 065120. | 1.3 | 0 |
| 12 | Geometric Phase and Localized Heat Diffusion. Advanced Materials, 2022, 34, . | 21.0 | 18 |
| 13 | 3D Printed Ultra-thin Acoustic Metamaterials with Adaptable Low-frequency Absorption Performance. , 2022, 1, 100036. | | 1 |
| 14 | Hole-dominated Fowler–Nordheim tunneling in 2D heterojunctions for infrared imaging. Science Bulletin, 2021, 66, 139-146. | 9.0 | 17 |
| 15 | Experimental evidence of selective generation and one-way conversion of parities in valley sonic crystals. Journal of Applied Physics, 2021, 129, 074504. | 2.5 | 3 |
| 16 | Square-root non-Bloch topological insulators in non-Hermitian ring resonators. Optics Express, 2021, 29, 8462. | 3.4 | 39 |
| 17 | Anti-parity-time symmetric phase transition in diffusive systems*. Chinese Physics B, 2021, 30, 030505. | 1.4 | 4 |
| 18 | Selective Topological Pumping for Robust, Efficient, and Asymmetric Sound Energy Transfer in a Dynamically Coupled Cavity Chain. Physical Review Applied, 2021, 15, . | 3.8 | 13 |

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|----|---|------|-----------|
| 19 | Experimental realization of ultrasonic retroreflection tweezing via metagratings. Ultrasonics, 2021, 117, 106548. | 3.9 | 14 |
| 20 | Subwavelength acoustic energy harvesting via topological interface states in 1D Helmholtz resonator arrays. AIP Advances, 2021, 11, . | 1.3 | 7 |
| 21 | Acoustic topological adiabatic passage via a level crossing. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1. | 5.1 | 11 |
| 22 | Diffusive skin effect and topological heat funneling. Communications Physics, 2021, 4, . | 5.3 | 21 |
| 23 | Controlling Sound in Non-Hermitian Acoustic Systems. Physical Review Applied, 2021, 16, . | 3.8 | 41 |
| 24 | Efficient nonreciprocal mode transitions in spatiotemporally modulated acoustic metamaterials. Science Advances, 2021, 7, eabj1198. | 10.3 | 40 |
| 25 | An Acoustic Meta‧kin Insulator. Advanced Materials, 2020, 32, e2002251. | 21.0 | 26 |
| 26 | Acoustic Adiabatic Propagation Based on Topological Pumping in a Coupled Multicavity Chain Lattice. Physical Review Applied, 2020, 14, . | 3.8 | 21 |
| 27 | Valleylike Edge States in Chiral Phononic Crystals with Dirac Degeneracies beyond High-Symmetry Points and Boundaries of Brillouin Zones. Physical Review Applied, 2020, 14, . | 3.8 | 17 |
| 28 | A Continuously Tunable Solid‣ike Convective Thermal Metadevice on the Reciprocal Line. Advanced Materials, 2020, 32, e2003823. | 21.0 | 45 |
| 29 | Meta-neural-network for real-time and passive deep-learning-based object recognition. Nature Communications, 2020, 11, 6309. | 12.8 | 49 |
| 30 | Super-resolution acoustic image montage via a biaxial metamaterial lens. Science Bulletin, 2020, 65, 1022-1029. | 9.0 | 27 |
| 31 | Revealing the missing dimension at an exceptional point. Nature Physics, 2020, 16, 571-578. | 16.7 | 100 |
| 32 | Realization of controllable acoustic acceleration beams via flexible active surfaces. Journal Physics D: Applied Physics, 2020, 53, 155502. | 2.8 | 6 |
| 33 | Unidirectional Extraordinary Sound Transmission with Mode-Selective Resonant Materials. Physical Review Applied, 2020, 13, . | 3.8 | 30 |
| 34 | 3D Printed Metaâ€Helmet for Wideâ€Angle Thermal Camouflages. Advanced Functional Materials, 2020, 30, 2002061. | 14.9 | 46 |
| 35 | Probability-Density-Based Deep Learning Paradigm for the Fuzzy Design of Functional Metastructures. Research, 2020, 2020, 8757403 | 5.7 | 19 |
| 36 | Roadmap on STIRAP applications. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 202001. | 1.5 | 108 |

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|----|--|------|-----------|
| 37 | Mirror-symmetry induced topological valley transport along programmable boundaries in a hexagonal sonic crystal. Journal of Physics Condensed Matter, 2019, 31, 245403. | 1.8 | 15 |
| 38 | Experimental Demonstration of Acoustic Valley Hall Topological Insulators with the Robust Selection of <i>C</i> _{3<i>v</i>} -Symmetric Scatterers. Physical Review Applied, 2019, 12, . | 3.8 | 34 |
| 39 | Switching between deterministic and accidental Dirac degeneracy by rotating scatterers and the multi-channel topological transport of sound. New Journal of Physics, 2019, 21, 073047. | 2.9 | 11 |
| 40 | Ultrasonic super-oscillation wave-packets with an acoustic meta-lens. Nature Communications, 2019, 10, 3411. | 12.8 | 81 |
| 41 | Spectrum Manipulation for Sound with Effective Gauge Fields in Cascading Temporally Modulated Waveguides. Physical Review Applied, 2019, 11, . | 3.8 | 4 |
| 42 | Active Acoustic Metasurface: Complete Elimination of Grating Lobes for High-Quality Ultrasound Focusing and Controllable Steering. Physical Review Applied, 2019, 11, . | 3.8 | 23 |
| 43 | One-Way Localized Adiabatic Passage in an Acoustic System. Physical Review Letters, 2019, 122, 094501. | 7.8 | 50 |
| 44 | Topological nodal line states in three-dimensional ball-and-stick sonic crystals. Physical Review B, 2019, 100, . | 3.2 | 16 |
| 45 | Experimental Demonstration of Acoustic Chern Insulators. Physical Review Letters, 2019, 122, 014302. | 7.8 | 205 |
| 46 | Thermal meta-device in analogue of zero-index photonics. Nature Materials, 2019, 18, 48-54. | 27.5 | 172 |
| 47 | Chirality-assisted three-dimensional acoustic Floquet lattices. Physical Review Research, 2019, 1, . | 3.6 | 26 |
| 48 | Anti–parity-time symmetry in diffusive systems. Science, 2019, 364, 170-173. | 12.6 | 217 |
| 49 | Topological acoustic transports in chiral sonic crystals. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 227802. | 0.5 | 3 |
| 50 | Topologically protected bound states in one-dimensional Floquet acoustic waveguide systems. Journal of Applied Physics, 2018, 123, . | 2.5 | 30 |
| 51 | Fine manipulation of sound via lossy metamaterials with independent and arbitrary reflection amplitude and phase. Nature Communications, 2018, 9, 1632. | 12.8 | 150 |
| 52 | Lasing With Resonant Feedback in Weakly Modulated Parity-Time Symmetric Lattices. IEEE Photonics Journal, 2018, 10, 1-6. | 2.0 | 1 |
| 53 | Observation of elastic topological states in soft materials. Nature Communications, 2018, 9, 1370. | 12.8 | 78 |
| 54 | Spectrum Control through Discrete Frequency Diffraction in the Presence of Photonic Gauge Potentials. Physical Review Letters, 2018, 120, 133901. | 7.8 | 92 |

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|----|--|------|-----------|
| 55 | Unidirectional Wave Vector Manipulation in Two-Dimensional Space with an All Passive Acoustic Parity-Time-Symmetric Metamaterials Crystal. Physical Review Letters, 2018, 120, 124502. | 7.8 | 122 |
| 56 | Acoustic Metasurfaces: Hollow-Out Patterning Ultrathin Acoustic Metasurfaces for Multifunctionalities Using Soft fiber/Rigid Bead Networks (Adv. Funct. Mater. 36/2018). Advanced Functional Materials, 2018, 28, 1870251. | 14.9 | 2 |
| 57 | Hollowâ€Out Patterning Ultrathin Acoustic Metasurfaces for Multifunctionalities Using Soft fiber/Rigid Bead Networks. Advanced Functional Materials, 2018, 28, 1801127. | 14.9 | 42 |
| 58 | Topologically protected edge transport of sound in coupled cavities of a modified honeycomb lattice. Journal of Physics Condensed Matter, 2018, 30, 345401. | 1.8 | 9 |
| 59 | Acoustic delay-line filters based on largely distorted topological insulators. Applied Physics Letters, 2018, 113, . | 3.3 | 30 |
| 60 | Low-loss and broadband anomalous Floquet topological insulator for airborne sound. Applied Physics Letters, 2017, 110, . | 3.3 | 45 |
| 61 | Observation of low-loss broadband supermode propagation in coupled acoustic waveguide complex. Scientific Reports, 2017, 7, 45603. | 3.3 | 9 |
| 62 | Observation of acoustic Dirac-like cone and double zero refractive index. Nature Communications, 2017, 8, 14871. | 12.8 | 123 |
| 63 | Topological valley transport of plate-mode waves in a homogenous thin plate with periodic stubbed surface. AIP Advances, 2017, 7, . | 1.3 | 50 |
| 64 | Valley-protected backscattering suppression of elastic wave in two-dimensional solid phononic crystals. , 2017, , . | | 0 |
| 65 | Strongly localized states at the band-inverting interface with periodic lattice dislocations. AIP Advances, 2016, 6, 115312. | 1.3 | 1 |
| 66 | Bound states in one-dimensional acoustic parity-time-symmetric lattices for perfect sensing. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2698-2702. | 2.1 | 17 |
| 67 | Deep-Subwavelength-Scale Directional Sensing Based on Highly Localized Dipolar Mie Resonances. Physical Review Applied, 2016, 5, . | 3.8 | 55 |
| 68 | Experimental demonstration of anomalous Floquet topological insulator for sound. Nature Communications, 2016, 7, 13368. | 12.8 | 344 |
| 69 | Implementation of dispersion-free slow acoustic wave propagation and phase engineering with helical-structured metamaterials. Nature Communications, 2016, 7, 11731. | 12.8 | 236 |
| 70 | High-Efficiency Vertical Light Emission through a Compact Silicon Nanoantenna Array. ACS Photonics, 2016, 3, 324-328. | 6.6 | 14 |
| 71 | Broadband Lamb Wave Trapping in Cellular Metamaterial Plates with Multiple Local Resonances. Scientific Reports, 2015, 5, 9376. | 3.3 | 23 |
| 72 | Demonstration of a large-scale optical exceptional point structure. Optics Express, 2014, 22, 1760. | 3.4 | 134 |

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| 73 | <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="script">P<mml:mi mathvariant="script">T</mml:mi </mml:mi </mml:mrow></mml:math> -Symmetric Acoustics. Physical Review X, 2014, 4, . | 8.9 | 295 |
| 74 | Broadband and wide-angle negative reflection at a phononic crystal boundary. Applied Physics Letters, 2014, 104, . | 3.3 | 22 |
| 75 | Generation of acoustic self-bending and bottle beams by phase engineering. Nature Communications, 2014, 5, 4316. | 12.8 | 189 |
| 76 | One-way invisible cloak using parity-time symmetric transformation optics. Optics Letters, 2013, 38, 2821. | 3.3 | 136 |
| 77 | Acoustic one-way frequency up-converter with high transmission efficiency. Journal of Applied Physics, 2013, 114, 134508. | 2.5 | 16 |
| 78 | Controllable acoustic rectification in one-dimensional piezoelectric composite plates. Journal of Applied Physics, 2013, 114, . | 2.5 | 19 |
| 79 | Acoustic rainbow trapping. Scientific Reports, 2013, 3, . | 3.3 | 240 |
| 80 | Acoustic focusing by coiling up space. Applied Physics Letters, 2012, 101, . | 3.3 | 297 |
| 81 | Scattering reduction for an acoustic sensor using a multilayered shell comprising a pair of homogeneous isotropic single-negative media. Applied Physics Letters, 2012, 101, . | 3.3 | 21 |
| 82 | A broadband acoustic omnidirectional absorber comprising positive-index materials. Applied Physics Letters, 2011, 99, . | 3.3 | 72 |
| 83 | Acoustic Cloaking by a Superlens with Single-Negative Materials. Physical Review Letters, 2011, 106, 014301. | 7.8 | 181 |
| 84 | Nonpropagating X-shaped acoustic waves in sonic crystals without defects. Applied Physics Letters, 2010, 97, 223504. | 3.3 | 4 |
| 85 | One-way mode transmission in one-dimensional phononic crystal plates. Journal of Applied Physics, 2010, 108, . | 2.5 | 123 |
| 86 | Study of acoustic wave behavior in silicon-based one-dimensional phononic-crystal plates using harmony response analysis. Journal of Applied Physics, 2009, 106, 104901. | 2.5 | 25 |
| 87 | Underwater Transmitted Wavefront Manipulation Based on Bubble-Arrayed Acoustic Metasurfaces. Frontiers in Physics, 0, 10, . | 2.1 | 0 |