# Guancong

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8929645/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 41<br>papers | 5,894<br>citations | 270111<br>25<br>h-index | 325983<br>40<br>g-index |
| 42<br>all docs | 42<br>docs citations | 42<br>times ranked | 3802<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Topological pumping in acoustic waveguide arrays with hopping modulation. New Journal of Physics, 2022, 24, 013004. | 1.2 | 8 |
| 2 | Experimental realization of non-Abelian permutations in a three-state non-Hermitian system. National Science Review, 2022, 9, . | 4.6 | 15 |
| 3 | Controlling the Spatiotemporal Response of Transient Reverberating Sound. Physical Review Applied, 2022, 17, . | 1.5 | 8 |
| 4 | Classical non-Abelian braiding of acoustic modes. Nature Physics, 2022, 18, 179-184. | 6.5 | 32 |
| 5 | Observation of Degenerate Zero-Energy Topological States at Disclinations in an Acoustic Lattice. Physical Review Letters, 2022, 128, 174301. | 2.9 | 35 |
| 6 | Landau-Zener Transition in the Dynamic Transfer of Acoustic Topological States. Physical Review Letters, 2021, 126, 054301. | 2.9 | 42 |
| 7 | Negative Transient Flux in the Near Field of a Subwavelength Source. Physical Review Applied, 2021, 16, . | 1.5 | 1 |
| 8 | Direct Measurement of Topological Properties of an Exceptional Parabola. Physical Review Letters, 2021, 127, 034301. | 2.9 | 22 |
| 9 | Multi-dimensional wave steering with higher-order topological phononic crystal. Science Bulletin, 2021, 66, 1740-1745. | 4.3 | 26 |
| 10 | Acoustic Realization of a Four-Dimensional Higher-Order Chern Insulator and Boundary-Modes Engineering. Physical Review X, 2021, 11, . | 2.8 | 41 |
| 11 | Wave Steering by Relaying Interface States in a Valley-Hall-Derived Photonic Superlattice. Physical Review Applied, 2021, 16, . | 1.5 | 4 |
| 12 | Measurement of Corner-Mode Coupling in Acoustic Higher-Order Topological Insulators. Frontiers in Physics, 2021, 9, . | 1.0 | 2 |
| 13 | Spin-orbit interactions of transverse sound. Nature Communications, 2021, 12, 6125. | 5.8 | 27 |
| 14 | Generalized momentum conservation and Fedorov-Imbert linear shift of acoustic vortex beams at a metasurface. Physical Review B, 2021, 104, . | 1.1 | 5 |
| 15 | Synthetic Three-Dimensional ZÃ—Z2 Topological Insulator in an Elastic Metacrystal. Physical Review Letters, 2021, 127, 214302. | 2.9 | 9 |
| 16 | Single-sided acoustic beam splitting based on parity-time symmetry. Physical Review B, 2020, 102, . | 1.1 | 22 |
| 17 | Exceptional nexus with a hybrid topological invariant. Science, 2020, 370, 1077-1080. | 6.0 | 104 |
| 18 | Chiral Symmetry Breaking of Tight-Binding Models in Coupled Acoustic-Cavity Systems. Physical Review Applied, 2020, 14, . | 1.5 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Three-Dimensional Acoustic Double-Zero-Index Medium with a Fourfold Degenerate Dirac-like Point. Physical Review Letters, 2020, 124, 074501. | 2.9 | 51 |
| 20 | Distinguishing topological corner modes in higher-order topological insulators of finite size. Physical Review B, 2020, 101, . | 1.1 | 15 |
| 21 | Topological phases in acoustic and mechanical systems. Nature Reviews Physics, 2019, 1, 281-294. | 11.9 | 489 |
| 22 | Topological transport of sound mediated by spin-redirection geometric phase. Science Advances, 2018, 4, eaaq1475. | 4.7 | 41 |
| 23 | Towards anti-causal Greenâ€™s function for three-dimensional sub-diffraction focusing. Nature Physics, 2018, 14, 608-612. | 6.5 | 48 |
| 24 | Simulation of a novel capacitive sensor for rebar corrosion detection. Construction and Building Materials, 2018, 174, 613-624. | 3.2 | 25 |
| 25 | Experimental Demonstration of an Anisotropic Exceptional Point. Physical Review Letters, 2018, 121, 085702. | 2.9 | 80 |
| 26 | Shaping reverberating sound fields with an actively tunable metasurface. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6638-6643. | 3.3 | 95 |
| 27 | Topological Subspace-Induced Bound State in the Continuum. Physical Review Letters, 2017, 118, 166803. | 2.9 | 125 |
| 28 | Merging of exceptional points in classical waves. , 2016, , . | | 0 |
| 29 | Fluid-like elasticity induced by anisotropic effective mass density. , 2016, , . | | 0 |
| 30 | Polarization bandgaps and fluid-like elasticity in fully solid elastic metamaterials. Nature Communications, 2016, 7, 13536. | 5.8 | 96 |
| 31 | Emergence, Coalescence, and Topological Properties of Multiple Exceptional Points and Their Experimental Realization. Physical Review X, 2016, 6, . | 2.8 | 263 |
| 32 | Acoustic metamaterials: From local resonances to broad horizons. Science Advances, 2016, 2, e1501595. | 4.7 | 986 |
| 33 | Subwavelength perfect acoustic absorption in membrane-type metamaterials: a geometric perspective. EPJ Applied Metamaterials, 2015, 2, 10. | 0.8 | 20 |
| 34 | Geometric phase and band inversion in periodic acoustic systems. Nature Physics, 2015, 11, 240-244. | 6.5 | 498 |
| 35 | Active control of membrane-type acoustic metamaterial by electric field. Applied Physics Letters, 2015, 106, . | 1.5 | 134 |
| 36 | Homogenization scheme for acoustic metamaterials. Physical Review B, 2014, 89, . | 1.1 | 100 |

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|---|---|---|---|
| 37 | Acoustic metasurface with hybrid resonances. Nature Materials, 2014, 13, 873-878. | 13.3 | 801 |
| 38 | Coupled Membranes with Doubly Negative Mass Density and Bulk Modulus. Physical Review Letters, 2013, 110, 134301. | 2.9 | 276 |
| 39 | Low-frequency narrow-band acoustic filter with large orifice. Applied Physics Letters, 2013, 103, . | 1.5 | 91 |
| 40 | Dark acoustic metamaterials as super absorbers for low-frequency sound. Nature Communications, 2012, 3, 756. | 5.8 | 835 |
| 41 | Acoustic metamaterial panels for sound attenuation in the 50â€“1000 Hz regime. Applied Physics Letters, 2010, 96, . | 1.5 | 385 |