

Guancong

List of Publications by Year in descending order

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

Version: 2024-02-01

41
papers

5,894
citations

236925

25
h-index

289244

40
g-index

42
all docs

42
docs citations

42
times ranked

3252
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic metamaterials: From local resonances to broad horizons. <i>Science Advances</i> , 2016, 2, e1501595.	10.3	986
2	Dark acoustic metamaterials as super absorbers for low-frequency sound. <i>Nature Communications</i> , 2012, 3, 756.	12.8	835
3	Acoustic metasurface with hybrid resonances. <i>Nature Materials</i> , 2014, 13, 873-878.	27.5	801
4	Geometric phase and band inversion in periodic acoustic systems. <i>Nature Physics</i> , 2015, 11, 240-244.	16.7	498
5	Topological phases in acoustic and mechanical systems. <i>Nature Reviews Physics</i> , 2019, 1, 281-294.	26.6	489
6	Acoustic metamaterial panels for sound attenuation in the 50~€"1000 Hz regime. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	385
7	Coupled Membranes with Doubly Negative Mass Density and Bulk Modulus. <i>Physical Review Letters</i> , 2013, 110, 134301.	7.8	276
8	Emergence, Coalescence, and Topological Properties of Multiple Exceptional Points and Their Experimental Realization. <i>Physical Review X</i> , 2016, 6, .	8.9	263
9	Active control of membrane-type acoustic metamaterial by electric field. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	134
10	Topological Subspace-Induced Bound State in the Continuum. <i>Physical Review Letters</i> , 2017, 118, 166803.	7.8	125
11	Exceptional nexus with a hybrid topological invariant. <i>Science</i> , 2020, 370, 1077-1080.	12.6	104
12	Homogenization scheme for acoustic metamaterials. <i>Physical Review B</i> , 2014, 89, .	3.2	100
13	Polarization bandgaps and fluid-like elasticity in fully solid elastic metamaterials. <i>Nature Communications</i> , 2016, 7, 13536.	12.8	96
14	Shaping reverberating sound fields with an actively tunable metasurface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6638-6643.	7.1	95
15	Low-frequency narrow-band acoustic filter with large orifice. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	91
16	Experimental Demonstration of an Anisotropic Exceptional Point. <i>Physical Review Letters</i> , 2018, 121, 085702.	7.8	80
17	Three-Dimensional Acoustic Double-Zero-Index Medium with a Fourfold Degenerate Dirac-like Point. <i>Physical Review Letters</i> , 2020, 124, 074501.	7.8	51
18	Towards anti-causal Green~€"s function for three-dimensional sub-diffraction focusing. <i>Nature Physics</i> , 2018, 14, 608-612.	16.7	48

#	ARTICLE	IF	CITATIONS
19	Landau-Zener Transition in the Dynamic Transfer of Acoustic Topological States. <i>Physical Review Letters</i> , 2021, 126, 054301.	7.8	42
20	Topological transport of sound mediated by spin-redirected geometric phase. <i>Science Advances</i> , 2018, 4, eaq1475.	10.3	41
21	Acoustic Realization of a Four-Dimensional Higher-Order Chern Insulator and Boundary-Modes Engineering. <i>Physical Review X</i> , 2021, 11, .	8.9	41
22	Chiral Symmetry Breaking of Tight-Binding Models in Coupled Acoustic-Cavity Systems. <i>Physical Review Applied</i> , 2020, 14, .	3.8	35
23	Observation of Degenerate Zero-Energy Topological States at Disclinations in an Acoustic Lattice. <i>Physical Review Letters</i> , 2022, 128, 174301.	7.8	35
24	Classical non-Abelian braiding of acoustic modes. <i>Nature Physics</i> , 2022, 18, 179-184.	16.7	32
25	Spin-orbit interactions of transverse sound. <i>Nature Communications</i> , 2021, 12, 6125.	12.8	27
26	Multi-dimensional wave steering with higher-order topological phononic crystal. <i>Science Bulletin</i> , 2021, 66, 1740-1745.	9.0	26
27	Simulation of a novel capacitive sensor for rebar corrosion detection. <i>Construction and Building Materials</i> , 2018, 174, 613-624.	7.2	25
28	Single-sided acoustic beam splitting based on parity-time symmetry. <i>Physical Review B</i> , 2020, 102, .	3.2	22
29	Direct Measurement of Topological Properties of an Exceptional Parabola. <i>Physical Review Letters</i> , 2021, 127, 034301.	7.8	22
30	Subwavelength perfect acoustic absorption in membrane-type metamaterials: a geometric perspective. <i>EPJ Applied Metamaterials</i> , 2015, 2, 10.	1.5	20
31	Distinguishing topological corner modes in higher-order topological insulators of finite size. <i>Physical Review B</i> , 2020, 101, .	3.2	15
32	Experimental realization of non-Abelian permutations in a three-state non-Hermitian system. <i>National Science Review</i> , 2022, 9, .	9.5	15
33	Synthetic Three-Dimensional \mathbb{Z}_2 -Topological Insulator in an Elastic Metacrystal. <i>Physical Review Letters</i> , 2021, 127, 214302.	7.8	9
34	Topological pumping in acoustic waveguide arrays with hopping modulation. <i>New Journal of Physics</i> , 2022, 24, 013004.	2.9	8
35	Controlling the Spatiotemporal Response of Transient Reverberating Sound. <i>Physical Review Applied</i> , 2022, 17, .	3.8	8
36	Generalized momentum conservation and Fedorov-Imbert linear shift of acoustic vortex beams at a metasurface. <i>Physical Review B</i> , 2021, 104, .	3.2	5

#	ARTICLE	IF	CITATIONS
37	Wave Steering by Relaying Interface States in a Valley-Hall-Derived Photonic Superlattice. Physical Review Applied, 2021, 16, .	3.8	4
38	Measurement of Corner-Mode Coupling in Acoustic Higher-Order Topological Insulators. Frontiers in Physics, 2021, 9, .	2.1	2
39	Negative Transient Flux in the Near Field of a Subwavelength Source. Physical Review Applied, 2021, 16, .	3.8	1
40	Merging of exceptional points in classical waves. , 2016, , .		0
41	Fluid-like elasticity induced by anisotropic effective mass density. , 2016, , .		0