Johan Christensen

List of Publications by Year
in descending order

79 papers	7,158 citations	117625 34 h-index	64796 79 g-index
79 all docs	79 docs citations	79 times ranked	4980 citing authors

#	Article	IF	Citations
1	Twisting Linear to Orbital Angular Momentum in an Ultrasonic Motor. Advanced Materials, 2022, 34, e2201575.	21.0	7
2	Orbital Angular Momentum Multiplexing in Spaceâ€"Time Thermoacoustic Metasurfaces. Advanced Materials, 2022, 34, .	21.0	12
3	Knitting topological bands in artificial sonic semimetals. Materials Today Physics, 2021, 16, 100299.	6.0	9
4	Topological radiation engineering in hyperbolic sonic semimetals. Physical Review B, 2021, 103, .	3.2	4
5	Experimental evidence of a hiding zone in a density-near-zero acoustic metamaterial. Journal of Applied Physics, 2021, 129, 145101.	2.5	5
6	Topological vortices for sound and light. Nature Nanotechnology, 2021, 16, 487-489.	31.5	10
7	Remote whispering metamaterial for non-radiative transceiving of ultra-weak sound. Nature Communications, 2021, 12, 3670.	12.8	19
8	Corner states in a second-order mechanical topological insulator. Communications Materials, 2021, 2, .	6.9	45
9	Three-Dimensional Soundproof Acoustic Metacage. Physical Review Letters, 2021, 127, 084301.	7.8	41
10	Tuning of topological interface modes in an elastic beam array system with inerters. International Journal of Mechanical Sciences, 2021, 205, 106573.	6.7	15
11	Non-Hermitian topological whispering gallery. Nature, 2021, 597, 655-659.	27.8	87
12	Dirac Hierarchy in Acoustic Topological Insulators. Physical Review Letters, 2021, 127, 156401.	7.8	27
13	Nonreciprocal and even Willis couplings in periodic thermoacoustic amplifiers. Physical Review B, 2021, 104, .	3.2	9
14	Demultiplexing sound in stacked valley-Hall topological insulators. Physical Review B, 2021, 104, .	3.2	7
15	Sonic valley-Chern insulators. Physical Review B, 2020, 101, .	3.2	25
16	Acoustic Gain in Solids due to Piezoelectricity, Flexoelectricity, and Electrostriction. Advanced Functional Materials, 2020, 30, 2003503.	14.9	10
17	Topological Sound Pumping of Zeroâ€Dimensional Bound States. Advanced Quantum Technologies, 2020, 3, 2000065.	3.9	13
18	Flat Bands in Magic-Angle Vibrating Plates. Physical Review Letters, 2020, 125, 214301.	7.8	31

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19	Slow Surface Acoustic Waves via Lattice Optimization of a Phononic Crystal on a Chip. Physical Review Applied, 2020, 14, .	3.8	14
20	Anomalous Topological Edge States in Non-Hermitian Piezophononic Media. Physical Review Letters, 2020, 125, 206402.	7.8	45
21	Pseudospin induced topological corner state at intersecting sonic lattices. Physical Review B, 2020, 101, .	3.2	24
22	Multiple scattering theory of non-Hermitian sonic second-order topological insulators. Communications Physics, 2019, 2, .	5.3	21
23	Mechanical Analogue of a Majorana Bound State. Advanced Materials, 2019, 31, e1904386.	21.0	35
24	Majorana-like Zero Modes in KekulÃ© Distorted Sonic Lattices. Physical Review Letters, 2019, 123, 196601.	7.8	55
25	Deepâ€Subwavelength Holey Acoustic Secondâ€Order Topological Insulators. Advanced Materials, 2019, 31, e1904682.	21.0	99
26	Zero-phase propagation in realistic plate-type acoustic metamaterials. Applied Physics Letters, 2019, 115, .	3.3	11
27	Subwavelength multiple topological interface states in one-dimensional labyrinthine acoustic metamaterials. Physical Review B, 2019, 99, .	3.2	45
28	Non-Hermitian Sonic Second-Order Topological Insulator. Physical Review Letters, 2019, 122, 195501.	7.8	166
29	Valley Hall phases in kagome lattices. Physical Review B, 2019, 99, .	3.2	31
30	Dual Dirac cones in elastic Lieb-like lattice metamaterials. Applied Physics Letters, 2019, 114, 081906.	3.3	16
31	Topological Insulators: Deepâ€Subwavelength Holey Acoustic Secondâ€Order Topological Insulators (Adv. Mater. 49/2019). Advanced Materials, 2019, 31, 1970344.	21.0	1
32	Ultrasonic nodal chains in topological granular metamaterials. Communications Physics, 2019, 2, .	5.3	12
33	Subwavelength Acoustic Valley-Hall Topological Insulators Using Soda Cans Honeycomb Lattices. Research, 2019, 2019, 5385763.	5.7	24
34	Ultrathin Acoustic Parity-Time Symmetric Metasurface Cloak. Research, 2019, 2019, 8345683.	5.7	37
35	Optical Pulling and Pushing Forces in Bilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="script">P</mml:mi><mml:mi mathvariant="script">T</mml:mi></mml:mrow></mml:math> -Symmetric Structures. Physical Review Applied, 2018, 9, .	3.8	28
36	Dynamic Nonreciprocity in Loss-Compensated Piezophononic Media. Physical Review Applied, 2018, 9, .	3.8	28

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37	Topological Acoustic Delay Line. Physical Review Applied, 2018, 9, .	3.8	152
38	PT symmetric sonic crystals: From asymmetric echoes to supersonic speeds. Europhysics Letters, 2018, 124, 34001.	2.0	5
39	Unidirectional zero sonic reflection in passive <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> -symmetric Willis media. Physical Review B, 2018, 98, .	3.2	56
40	Topological sound. Communications Physics, 2018, 1, .	5.3	238
41	Heat conduction tuning by hyperbranched nanophononic metamaterials. Journal of Applied Physics, 2018, 123, .	2.5	7
42	Optical force rectifiers based on PT-symmetric metasurfaces. Physical Review B, 2018, 97, .	3.2	12
43	Directional Acoustic Antennas Based on Valleyâ€Hall Topological Insulators. Advanced Materials, 2018, 30, e1803229.	21.0	182
44	Valley Physics in Non-Hermitian Artificial Acoustic Boron Nitride. Physical Review Letters, 2018, 120, 246601.	7.8	79
45	Flexible mechanical metamaterials. Nature Reviews Materials, 2017, 2, .	48.7	1,006
46	Extraordinary optical transmission through nonlocal holey metal films. Applied Physics Letters, 2017, 110, 261110.	3.3	17
47	Tailoring the thermal conductivity in nanophononic metamaterials. Physical Review B, 2017, 95, .	3.2	27
48	Experimental verification of acoustic pseudospin multipoles in a symmetry-broken snowflakelike topological insulator. Physical Review B, 2017, 96, .	3.2	83
49	Polarization bandgaps and fluid-like elasticity in fully solid elastic metamaterials. Nature Communications, 2016, 7, 13536.	12.8	96
50	Coalescence towards exceptional contours in synthetic phononic media. Europhysics Letters, 2016, 114, 47007.	2.0	5
51	Parity-Time Synthetic Phononic Media. Physical Review Letters, 2016, 116, 207601.	7.8	108
52	Spatial dispersion in two-dimensional plasmonic crystals: Large blueshifts promoted by diffraction anomalies. Physical Review B, 2016, 94, .	3.2	23
53	Controlling sound with acoustic metamaterials. Nature Reviews Materials, 2016, 1, .	48.7	1,328
54	Localized surface plasmons in vibrating graphene nanodisks. Nanoscale, 2016, 8, 3809-3815.	5.6	12

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55	Mechanical Properties of Laminate Materials: From Surface Waves to Bloch Oscillations. Physical Review Applied, 2015, 4, .	3.8	2
56	Vibrant times for mechanical metamaterials. MRS Communications, 2015, 5, 453-462.	1.8	234
57	Tunable Broadband Acoustic Gain in Piezoelectric Semiconductors at <I>Îµ</I>-Near-Zero Response. Acta Acustica United With Acustica, 2015, 101, 986-992.	0.8	3
58	Extraordinary absorption of sound in porous lamella-crystals. Scientific Reports, 2015, 4, 4674.	3.3	50
59	Acoustic wave propagation and stochastic effects in metamaterial absorbers. Applied Physics Letters, 2014, 105, 043508.	3.3	9
60	Modelling the acoustical response of lossy lamella-crystals. Journal of Applied Physics, 2014, 116, .	2.5	4
61	Minimal model for spoof acoustoelastic surface states. AIP Advances, 2014, 4, 124301.	1.3	3
62	Acoustic gain in piezoelectric semiconductors at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>É</mml:mi></mml:math>-near-zero response. Physical Review B, 2014, 89, .	3.2	40
63	Negative Refraction and Energy Funneling by Hyperbolic Materials: An Experimental Demonstration in Acoustics. Physical Review Letters, 2014, 112, 144301.	7.8	145
64	Perfect imaging, epsilon-near zero phenomena and waveguiding in the scope of nonlocal effects. Scientific Reports, 2013, 3, 2526.	3.3	38
65	Metadevices for the confinement of sound and broadband double-negativity behavior. Physical Review B, 2013, 88, .	3.2	18
66	Flow-induced resonance shift in sonic slit array metamaterials. Physical Review B, 2012, 85, .	3.2	3
67	Tunable acoustic double negativity metamaterial. Scientific Reports, 2012, 2, 859.	3.3	35
68	Negative refraction and backward waves in layered acoustic metamaterials. Physical Review B, 2012, 86, .	3.2	17
69	Graphene Plasmon Waveguiding and Hybridization in Individual and Paired Nanoribbons. ACS Nano, 2012, 6, 431-440.	14.6	646
70	Anisotropic Metamaterials for Full Control of Acoustic Waves. Physical Review Letters, 2012, 108, 124301.	7.8	230
71	A holey-structured metamaterial for acoustic deep-subwavelength imaging. Nature Physics, 2011, 7, 52-55.	16.7	533
72	Acoustic field enhancement and subwavelength imaging by coupling to slab waveguide modes. Applied Physics Letters, 2010, 97, 164103.	3.3	20

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73	Enhanced acoustical transmission and beaming effect through a single aperture. Physical Review B, 2010, 81, .	3.2	66
74	All-angle blockage of sound by an acoustic double-fishnet metamaterial. Applied Physics Letters, 2010, 97, 134106.	3.3	36
75	Collimation of horizontally polarized shear waves by means of ridge grating supported Love modes. Applied Physics Letters, 2010, 96, 233505.	3.3	4
76	Slow plasmonic slab waveguide as a superlens for visible light. Physical Review B, 2010, 82, .	3.2	10
77	Theory of Resonant Acoustic Transmission through Subwavelength Apertures. Physical Review Letters, 2008, 101, 014301.	7.8	224
78	Confining and slowing airborne sound with a corrugated metawire. Applied Physics Letters, 2008, 93, 083502.	3.3	35
79	Collimation of sound assisted by acoustic surface waves. Nature Physics, 2007, 3, 851-852.	16.7	249