

Johan Christensen

List of Publications by Year in descending order

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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	Controlling sound with acoustic metamaterials. Nature Reviews Materials, 2016, 1, .	48.7	1,328
2	Flexible mechanical metamaterials. Nature Reviews Materials, 2017, 2, .	48.7	1,006
3	Graphene Plasmon Waveguiding and Hybridization in Individual and Paired Nanoribbons. ACS Nano, 2012, 6, 431-440.	14.6	646
4	A holey-structured metamaterial for acoustic deep-subwavelength imaging. Nature Physics, 2011, 7, 52-55.	16.7	533
5	Collimation of sound assisted by acoustic surface waves. Nature Physics, 2007, 3, 851-852.	16.7	249
6	Topological sound. Communications Physics, 2018, 1, .	5.3	238
7	Vibrant times for mechanical metamaterials. MRS Communications, 2015, 5, 453-462.	1.8	234
8	Anisotropic Metamaterials for Full Control of Acoustic Waves. Physical Review Letters, 2012, 108, 124301.	7.8	230
9	Theory of Resonant Acoustic Transmission through Subwavelength Apertures. Physical Review Letters, 2008, 101, 014301.	7.8	224
10	Directional Acoustic Antennas Based on Valleyâ€Hall Topological Insulators. Advanced Materials, 2018, 30, e1803229.	21.0	182
11	Non-Hermitian Sonic Second-Order Topological Insulator. Physical Review Letters, 2019, 122, 195501.	7.8	166
12	Topological Acoustic Delay Line. Physical Review Applied, 2018, 9, .	3.8	152
13	Negative Refraction and Energy Funneling by Hyperbolic Materials: An Experimental Demonstration in Acoustics. Physical Review Letters, 2014, 112, 144301.	7.8	145
14	Parity-Time Synthetic Phononic Media. Physical Review Letters, 2016, 116, 207601.	7.8	108
15	Deepâ€Subwavelength Holey Acoustic Secondâ€Order Topological Insulators. Advanced Materials, 2019, 31, e1904682.	21.0	99
16	Polarization bandgaps and fluid-like elasticity in fully solid elastic metamaterials. Nature Communications, 2016, 7, 13536.	12.8	96
17	Non-Hermitian topological whispering gallery. Nature, 2021, 597, 655-659.	27.8	87
18	Experimental verification of acoustic pseudospin multipoles in a symmetry-broken snowflakelike topological insulator. Physical Review B, 2017, 96, .	3.2	83

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19	Valley Physics in Non-Hermitian Artificial Acoustic Boron Nitride. <i>Physical Review Letters</i> , 2018, 120, 246601.	7.8	79
20	Enhanced acoustical transmission and beaming effect through a single aperture. <i>Physical Review B</i> , 2010, 81, .	3.2	66
21	Unidirectional zero sonic reflection in passive $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \text{mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric Willis media. <i>Physical Review B</i> , 2018, 98, .	3.2	56
22	Majorana-like Zero Modes in Kekulé Distorted Sonic Lattices. <i>Physical Review Letters</i> , 2019, 123, 196601.	7.8	55
23	Extraordinary absorption of sound in porous lamella-crystals. <i>Scientific Reports</i> , 2015, 4, 4674.	3.3	50
24	Subwavelength multiple topological interface states in one-dimensional labyrinthine acoustic metamaterials. <i>Physical Review B</i> , 2019, 99, .	3.2	45
25	Anomalous Topological Edge States in Non-Hermitian Piezophononic Media. <i>Physical Review Letters</i> , 2020, 125, 206402.	7.8	45
26	Corner states in a second-order mechanical topological insulator. <i>Communications Materials</i> , 2021, 2, .	6.9	45
27	Three-Dimensional Soundproof Acoustic Metacage. <i>Physical Review Letters</i> , 2021, 127, 084301.	7.8	41
28	Acoustic gain in piezoelectric semiconductors at $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \acute{E} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -near-zero response. <i>Physical Review B</i> , 2014, 89, .	3.2	40
29	Perfect imaging, epsilon-near zero phenomena and waveguiding in the scope of nonlocal effects. <i>Scientific Reports</i> , 2013, 3, 2526.	3.3	38
30	Ultrathin Acoustic Parity-Time Symmetric Metasurface Cloak. <i>Research</i> , 2019, 2019, 8345683.	5.7	37
31	All-angle blockage of sound by an acoustic double-fishnet metamaterial. <i>Applied Physics Letters</i> , 2010, 97, 134106.	3.3	36
32	Confining and slowing airborne sound with a corrugated metawire. <i>Applied Physics Letters</i> , 2008, 93, 083502.	3.3	35
33	Tunable acoustic double negativity metamaterial. <i>Scientific Reports</i> , 2012, 2, 859.	3.3	35
34	Mechanical Analogue of a Majorana Bound State. <i>Advanced Materials</i> , 2019, 31, e1904386.	21.0	35
35	Valley Hall phases in kagome lattices. <i>Physical Review B</i> , 2019, 99, .	3.2	31
36	Flat Bands in Magic-Angle Vibrating Plates. <i>Physical Review Letters</i> , 2020, 125, 214301.	7.8	31

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37	Optical Pulling and Pushing Forces in Bilayer $P < T >$ -Symmetric Structures. Physical Review Applied, 2018, 9, .	3.8	28
38	Dynamic Nonreciprocity in Loss-Compensated Piezophononic Media. Physical Review Applied, 2018, 9, .	3.8	28
39	Tailoring the thermal conductivity in nanophononic metamaterials. Physical Review B, 2017, 95, .	3.2	27
40	Dirac Hierarchy in Acoustic Topological Insulators. Physical Review Letters, 2021, 127, 156401.	7.8	27
41	Sonic valley-Chern insulators. Physical Review B, 2020, 101, .	3.2	25
42	Pseudospin induced topological corner state at intersecting sonic lattices. Physical Review B, 2020, 101, .	3.2	24
43	Subwavelength Acoustic Valley-Hall Topological Insulators Using Soda Cans Honeycomb Lattices. Research, 2019, 2019, 5385763.	5.7	24
44	Spatial dispersion in two-dimensional plasmonic crystals: Large blueshifts promoted by diffraction anomalies. Physical Review B, 2016, 94, .	3.2	23
45	Multiple scattering theory of non-Hermitian sonic second-order topological insulators. Communications Physics, 2019, 2, .	5.3	21
46	Acoustic field enhancement and subwavelength imaging by coupling to slab waveguide modes. Applied Physics Letters, 2010, 97, 164103.	3.3	20
47	Remote whispering metamaterial for non-radiative transceiving of ultra-weak sound. Nature Communications, 2021, 12, 3670.	12.8	19
48	Metadevices for the confinement of sound and broadband double-negativity behavior. Physical Review B, 2013, 88, .	3.2	18
49	Negative refraction and backward waves in layered acoustic metamaterials. Physical Review B, 2012, 86, .	3.2	17
50	Extraordinary optical transmission through nonlocal holey metal films. Applied Physics Letters, 2017, 110, 261110.	3.3	17
51	Dual Dirac cones in elastic Lieb-like lattice metamaterials. Applied Physics Letters, 2019, 114, 081906.	3.3	16
52	Tuning of topological interface modes in an elastic beam array system with inerters. International Journal of Mechanical Sciences, 2021, 205, 106573.	6.7	15
53	Slow Surface Acoustic Waves via Lattice Optimization of a Phononic Crystal on a Chip. Physical Review Applied, 2020, 14, .	3.8	14
54	Topological Sound Pumping of Zero-Dimensional Bound States. Advanced Quantum Technologies, 2020, 3, 2000065.	3.9	13

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55	Localized surface plasmons in vibrating graphene nanodisks. <i>Nanoscale</i> , 2016, 8, 3809-3815.	5.6	12
56	Optical force rectifiers based on PT-symmetric metasurfaces. <i>Physical Review B</i> , 2018, 97, .	3.2	12
57	Ultrasonic nodal chains in topological granular metamaterials. <i>Communications Physics</i> , 2019, 2, .	5.3	12
58	Orbital Angular Momentum Multiplexing in Space-Time Thermoacoustic Metasurfaces. <i>Advanced Materials</i> , 2022, 34, .	21.0	12
59	Zero-phase propagation in realistic plate-type acoustic metamaterials. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	11
60	Slow plasmonic slab waveguide as a superlens for visible light. <i>Physical Review B</i> , 2010, 82, .	3.2	10
61	Acoustic Gain in Solids due to Piezoelectricity, Flexoelectricity, and Electrostriction. <i>Advanced Functional Materials</i> , 2020, 30, 2003503.	14.9	10
62	Topological vortices for sound and light. <i>Nature Nanotechnology</i> , 2021, 16, 487-489.	31.5	10
63	Acoustic wave propagation and stochastic effects in metamaterial absorbers. <i>Applied Physics Letters</i> , 2014, 105, 043508.	3.3	9
64	Knitting topological bands in artificial sonic semimetals. <i>Materials Today Physics</i> , 2021, 16, 100299.	6.0	9
65	Nonreciprocal and even Willis couplings in periodic thermoacoustic amplifiers. <i>Physical Review B</i> , 2021, 104, .	3.2	9
66	Heat conduction tuning by hyperbranched nanophononic metamaterials. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	7
67	Demultiplexing sound in stacked valley-Hall topological insulators. <i>Physical Review B</i> , 2021, 104, .	3.2	7
68	Twisting Linear to Orbital Angular Momentum in an Ultrasonic Motor. <i>Advanced Materials</i> , 2022, 34, e2201575.	21.0	7
69	Coalescence towards exceptional contours in synthetic phononic media. <i>Europhysics Letters</i> , 2016, 114, 47007.	2.0	5
70	SPT symmetric sonic crystals: From asymmetric echoes to supersonic speeds. <i>Europhysics Letters</i> , 2018, 124, 34001.	2.0	5
71	Experimental evidence of a hiding zone in a density-near-zero acoustic metamaterial. <i>Journal of Applied Physics</i> , 2021, 129, 145101.	2.5	5
72	Collimation of horizontally polarized shear waves by means of ridge grating supported Love modes. <i>Applied Physics Letters</i> , 2010, 96, 233505.	3.3	4

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73	Modelling the acoustical response of lossy lamella-crystals. Journal of Applied Physics, 2014, 116, .	2.5	4
74	Topological radiation engineering in hyperbolic sonic semimetals. Physical Review B, 2021, 103, .	3.2	4
75	Flow-induced resonance shift in sonic slit array metamaterials. Physical Review B, 2012, 85, .	3.2	3
76	Minimal model for spoof acoustoelastic surface states. AIP Advances, 2014, 4, 124301.	1.3	3
77	Tunable Broadband Acoustic Gain in Piezoelectric Semiconductors at μ -Near-Zero Response. Acta Acustica United With Acustica, 2015, 101, 986-992.	0.8	3
78	Mechanical Properties of Laminate Materials: From Surface Waves to Bloch Oscillations. Physical Review Applied, 2015, 4, .	3.8	2
79	Topological Insulators: Deep-Subwavelength Holey Acoustic Second-Order Topological Insulators (Adv. Mater. 49/2019). Advanced Materials, 2019, 31, 1970344.	21.0	1