

Zhen Shen

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,222
citations

567281

15
h-index

677142

22
g-index

27
all docs

27
docs citations

27
times ranked

1034
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental realization of optomechanically induced non-reciprocity. <i>Nature Photonics</i> , 2016, 10, 657-661.	31.4	414
2	Brillouin-scattering-induced transparency and non-reciprocal light storage. <i>Nature Communications</i> , 2015, 6, 6193.	12.8	266
3	Reconfigurable optomechanical circulator and directional amplifier. <i>Nature Communications</i> , 2018, 9, 1797.	12.8	147
4	Phononic integrated circuitry and spin-orbit interaction of phonons. <i>Nature Communications</i> , 2019, 10, 2743.	12.8	67
5	Synthetic Gauge Fields in a Single Optomechanical Resonator. <i>Physical Review Letters</i> , 2021, 126, 123603.	7.8	38
6	Tunable Raman laser in a hollow bottle-like microresonator. <i>Optics Express</i> , 2017, 25, 16879.	3.4	34
7	High-Q whispering gallery modes in a polymer microresonator with broad strain tuning. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015, 58, 1.	5.1	33
8	Compensation of the Kerr effect for transient optomechanically induced transparency in a silica microsphere. <i>Optics Letters</i> , 2016, 41, 1249.	3.3	31
9	Broadband tuning of the optical and mechanical modes in hollow bottle-like microresonators. <i>Optics Express</i> , 2017, 25, 4046.	3.4	26
10	Mechanical bound state in the continuum for optomechanical microresonators. <i>New Journal of Physics</i> , 2016, 18, 063031.	2.9	22
11	Phase sensitive imaging of 10 GHz vibrations in an AlN microdisk resonator. <i>Review of Scientific Instruments</i> , 2017, 88, 123709.	1.3	21
12	Single-sideband microwave-to-optical conversion in high-Q ferrimagnetic microspheres. <i>Photonics Research</i> , 2022, 10, 820.	7.0	21
13	High quality factor surface Fabry-Perot cavity of acoustic waves. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	19
14	Observation of high-Q optomechanical modes in the mounted silica microspheres. <i>Photonics Research</i> , 2015, 3, 243.	7.0	17
15	Enhanced optomechanical entanglement and cooling via dissipation engineering. <i>Physical Review A</i> , 2020, 101, .	2.5	16
16	Dissipatively Controlled Optomechanical Interaction via Cascaded Photon-Phonon Coupling. <i>Physical Review Letters</i> , 2021, 126, 163604.	7.8	16
17	High-acoustic-index-contrast phononic circuits: Numerical modeling. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	12
18	Tunable Add-Drop Filter With Hollow Bottlelike Microresonators. <i>IEEE Photonics Journal</i> , 2018, 10, 1-7.	2.0	6

#	ARTICLE	IF	CITATIONS
19	Polarization mode hybridization and conversion in phononic wire waveguides. Applied Physics Letters, 2019, 115, .	3.3	6
20	The Investigation of Forward and Backward Brillouin Scattering in High-Q Chalcogenide Microspheres. IEEE Photonics Journal, 2022, 14, 1-5.	2.0	5
21	Interconversion of photon-phonon in a silica optomechanical microresonator. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1-6.	5.1	4
22	Phonon counting boosts hybrid quantum networks based on optomechanics. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	1
23	Phase Sensitive Imaging of Mechanical Modes. Springer Theses, 2021, , 91-102.	0.1	0
24	Non-reciprocity in Optomechanical Resonators. , 2020, , 125-158.		0
25	”çš,,éžă’æ~“ă...%ăă™”ă»¶. Chinese Science Bulletin, 2022, , .	0.7	0