

Ying Wu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

149
papers

6,953
citations

40
h-index

81
g-index

164
ext. papers

8,119
ext. citations

4.6
avg, IF

6.55
L-index

#	Paper	IF	Citations
149	Topological Wannier cycles induced by sub-unit-cell artificial gauge flux in a sonic crystal.. <i>Nature Materials</i> , 2022 ,	27	4
148	Non-Hermitian electromagnetic double-near-zero index medium in a two-dimensional photonic crystal. <i>Applied Physics Letters</i> , 2021 , 119, 224102	3.4	1
147	Controllable phase-dependent Wigner-function negativity at steady state via parametric driving and feedback. <i>Journal of Applied Physics</i> , 2021 , 129, 124301	2.5	
146	Enhanced acoustic pressure sensors based on coherent perfect absorber-laser effect. <i>Journal of Applied Physics</i> , 2021 , 129, 104902	2.5	0
145	Self-dual singularity through lasing and antilasing in thin elastic plates. <i>Physical Review B</i> , 2021 , 103,	3.3	3
144	Observation of a phononic higher-order Weyl semimetal. <i>Nature Materials</i> , 2021 , 20, 794-799	27	20
143	Abnormal topological refraction into free medium at subwavelength scale in valley phononic crystal plates. <i>Physical Review B</i> , 2021 , 103,	3.3	1
142	Magnetically induced optical transparency in a plasmon-exciton system. <i>Physical Review A</i> , 2021 , 103,	2.6	1
141	Inverse-design of non-Hermitian potentials for on-demand asymmetric reflectivity. <i>Optics Express</i> , 2021 , 29, 17001-17010	3.3	0
140	Deterministic and probabilistic deep learning models for inverse design of broadband acoustic cloak. <i>Physical Review Research</i> , 2021 , 3,	3.9	17
139	Parity-Symmetry-Protected Multiphoton Bundle Emission. <i>Physical Review Letters</i> , 2021 , 127, 073602	7.4	5
138	Nonreciprocal chaos in a spinning optomechanical resonator. <i>Physical Review A</i> , 2021 , 104,	2.6	3
137	Three-Dimensional Electromagnetic Void Space. <i>Physical Review Letters</i> , 2021 , 127, 123902	7.4	5
136	Multi-dimensional wave steering with higher-order topological phononic crystal. <i>Science Bulletin</i> , 2021 , 66, 1740-1745	10.6	7
135	Pseudomagnetic Fields Enabled Manipulation of On-Chip Elastic Waves. <i>Physical Review Letters</i> , 2021 , 127, 136401	7.4	2
134	Scattering cancellation technique for acoustic spinning objects. <i>Physical Review B</i> , 2020 , 101,	3.3	7
133	N-Phonon Bundle Emission via the Stokes Process. <i>Physical Review Letters</i> , 2020 , 124, 053601	7.4	32

132	Three-Dimensional Acoustic Double-Zero-Index Medium with a Fourfold Degenerate Dirac-like Point. <i>Physical Review Letters</i> , 2020 , 124, 074501	7.4	25
131	Interplay of quantum phase transition and flat band in hybrid lattices. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
130	Highly nonclassical phonon emission statistics through two-phonon loss of van der Pol oscillator. <i>Journal of Applied Physics</i> , 2020 , 128, 234302	2.5	1
129	Acoustic graphene network loaded with Helmholtz resonators: a first-principle modeling, Dirac cones, edge and interface waves. <i>New Journal of Physics</i> , 2020 , 22, 013029	2.9	12
128	Observation of corner states in second-order topological electric circuits. <i>Physical Review B</i> , 2020 , 102,	3.3	11
127	Strongly correlated photons with quantum feedback in a cascaded nanoscale double-cavity system. <i>Physical Review A</i> , 2020 , 102,	2.6	1
126	Parity-Time Symmetry and Exceptional Points for Flexural-Gravity Waves in Buoyant Thin-Plates. <i>Crystals</i> , 2020 , 10, 1039	2.3	0
125	Restricted Hilbert Transform for Non-Hermitian Management of Fields. <i>Physical Review Applied</i> , 2020 , 14,	4.3	1
124	Entanglement and excited-state quantum phase transition in an extended Dicke model. <i>Frontiers of Physics</i> , 2019 , 14, 1	3.7	4
123	Subwavelength acoustic monopole source emission enhancement through dual gratings. <i>Scientific Reports</i> , 2019 , 9, 11659	4.9	3
122	Enhanced photon antibunching via interference effects in a κ -configuration. <i>Physical Review A</i> , 2019 , 100,	2.6	10
121	Twist-projected two-dimensional acoustic topological insulators. <i>Physical Review B</i> , 2019 , 99,	3.3	5
120	Room-Temperature Slow Light in a Coupled Cavity Magnon-Photon System. <i>IEEE Access</i> , 2019 , 7, 57047-57053	3.9	14
119	Collective radiance effects in the ultrastrong-coupling regime. <i>Physical Review A</i> , 2019 , 99,	2.6	22
118	Corner states in a second-order acoustic topological insulator as bound states in the continuum. <i>Physical Review B</i> , 2019 , 100,	3.3	38
117	Single-photon-triggered quantum chaos. <i>Physical Review A</i> , 2019 , 100,	2.6	6
116	Magnetically tunable multiband near-field radiative heat transfer between two graphene sheets. <i>Physical Review B</i> , 2019 , 100,	3.3	26
115	Quantitative Analysis of Magnon Induced Second-Order Sideband Generation. <i>IEEE Access</i> , 2019 , 7, 115534-115582	3.3	34

114	Regularization of vertical-cavity surface-emitting laser emission by periodic non-Hermitian potentials. <i>Optics Letters</i> , 2019 , 44, 3948-3951	3	1
113	Dynamic modeling and experimental analyses of Stewart platform with flexible hinges. <i>JVC/Journal of Vibration and Control</i> , 2019 , 25, 151-171	2	9
112	Highly Sensitive Optical Detector for Precision Measurement of Coulomb Coupling Strength Based on a Double-Oscillator Optomechanical System. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-11	1.8	6
111	Generation and control of optical frequency combs using cavity electromagnetically induced transparency. <i>Physical Review A</i> , 2018 , 97,	2.6	11
110	Directional sound beam emission from a configurable compact multi-source system. <i>Scientific Reports</i> , 2018 , 8, 1018	4.9	12
109	Two-color second-order sideband generation in an optomechanical system with a two-level system. <i>Scientific Reports</i> , 2018 , 8, 1060	4.9	11
108	Ultrathin metasurface with high absorptance for waterborne sound. <i>Journal of Applied Physics</i> , 2018 , 123, 091710	2.5	15
107	Dial-in Topological Metamaterials Based on Bistable Stewart Platform. <i>Scientific Reports</i> , 2018 , 8, 112	4.9	28
106	Phonon laser in the coupled vector cavity optomechanics. <i>Scientific Reports</i> , 2018 , 8, 282	4.9	1
105	Magnetic-field-dependent slow light in strontium atom-cavity system. <i>Applied Physics Letters</i> , 2018 , 112, 111109	3.4	25
104	Acoustic Purcell Effect for Enhanced Emission. <i>Physical Review Letters</i> , 2018 , 120, 114301	7.4	41
103	Chaos-related Localization in Modulated Lattice Array. <i>Annalen Der Physik</i> , 2018 , 530, 1700218	2.6	2
102	Generalized thermoelastic band structures of Rayleigh wave in one-dimensional phononic crystals. <i>Meccanica</i> , 2018 , 53, 923-935	2.1	6
101	Generating orthogonally polarized dual frequency combs with slow megahertz repetition rates by a low-nanowatt-level pump. <i>Physical Review A</i> , 2018 , 98,	2.6	6
100	Fundamentals and applications of optomechanically induced transparency. <i>Applied Physics Reviews</i> , 2018 , 5, 031305	17.3	95
99	Topological helical edge states in water waves over a topographical bottom. <i>New Journal of Physics</i> , 2018 , 20, 023051	2.9	10
98	Perspective: Acoustic metamaterials in transition. <i>Journal of Applied Physics</i> , 2018 , 123, 090901	2.5	55
97	Coupled Resonators for Sound Trapping and Absorption. <i>Scientific Reports</i> , 2018 , 8, 13855	4.9	14

96	Highly Sensitive Mass Sensing by Means of the Optomechanical Nonlinearity. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-8	1.8	3
95	Acoustic metasurfaces. <i>Nature Reviews Materials</i> , 2018 , 3, 460-472	73.3	290
94	Polarization-based control of phonon laser action in a Parity Time-symmetric optomechanical system. <i>Communications Physics</i> , 2018 , 1,	5.4	15
93	Switchable dynamics in the deep-strong-coupling regime. <i>Physical Review A</i> , 2018 , 98,	2.6	4
92	Optomechanical Akhmediev Breathers. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1700305	8.3	25
91	Topological spin-Hall edge states of flexural wave in perforated metamaterial plates. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 325302	3	17
90	Optical multistability and Fano line-shape control via mode coupling in whispering-gallery-mode microresonator optomechanics. <i>Scientific Reports</i> , 2017 , 7, 39781	4.9	22
89	Optomechanically induced opacity and amplification in a quadratically coupled optomechanical system. <i>Physical Review A</i> , 2017 , 95,	2.6	47
88	A proposed method to measure weak magnetic field based on a hybrid optomechanical system. <i>Scientific Reports</i> , 2017 , 7, 12521	4.9	28
87	Kuznetsov-Ma Soliton Dynamics Based on the Mechanical Effect of Light. <i>Physical Review Letters</i> , 2017 , 119, 153901	7.4	55
86	Multiple topological phase transitions in a gyromagnetic photonic crystal. <i>Physical Review A</i> , 2017 , 95,	2.6	16
85	Acoustic frequency filter based on anisotropic topological phononic crystals. <i>Scientific Reports</i> , 2017 , 7, 15005	4.9	15
84	Superfluid-Mott-insulator transition in superconducting circuits with weak anharmonicity. <i>Physical Review A</i> , 2017 , 96,	2.6	2
83	Second-harmonic generation with ultralow-power pump thresholds in a dimer of two active-passive cavities. <i>Physical Review A</i> , 2017 , 96,	2.6	6
82	Enhancing monochromatic multipole emission by a subwavelength enclosure of degenerate Mie resonances. <i>Journal of the Acoustical Society of America</i> , 2017 , 142, EL24	2.2	17
81	A numerical study of super-resolution through fast 3D wideband algorithm for scattering in highly-heterogeneous media. <i>Wave Motion</i> , 2017 , 70, 113-134	1.8	3
80	Hybrid Interference Induced Flat Band Localization in Bipartite Optomechanical Lattices. <i>Scientific Reports</i> , 2017 , 7, 15188	4.9	3
79	Scheme for achieving coherent perfect absorption by anisotropic metamaterials. <i>Optics Express</i> , 2017 , 25, 4860-4874	3.3	7

78	Multi-channel coherent perfect absorbers. <i>Europhysics Letters</i> , 2016 , 114, 28003	1.6	14
77	PT-symmetry-induced evolution of sharp asymmetric line shapes and high-sensitivity refractive index sensors in a three-cavity array. <i>Physical Review A</i> , 2016 , 93,	2.6	48
76	Fano line-shape control and superluminal light using cavity quantum electrodynamics with a partially transmitting element. <i>Physical Review A</i> , 2016 , 93,	2.6	9
75	Circuit quantum electrodynamics simulator of flat band physics in a Lieb lattice. <i>Physical Review A</i> , 2016 , 93,	2.6	24
74	Giant enhancement of optical high-order sideband generation and their control in a dimer of two cavities with gain and loss. <i>Physical Review A</i> , 2016 , 93,	2.6	21
73	Tunable Topological Phononic Crystals. <i>Physical Review Applied</i> , 2016 , 5,	4.3	140
72	Pseudo-time-reversal symmetry and topological edge states in two-dimensional acoustic crystals. <i>Scientific Reports</i> , 2016 , 6, 32752	4.9	90
71	Macroscopic quantum entanglement in modulated optomechanics. <i>Physical Review A</i> , 2016 , 94,	2.6	57
70	Tunable waveguide bends with graphene-based anisotropic metamaterials. <i>Applied Physics Express</i> , 2016 , 9, 025101	2.4	3
69	High transmission acoustic focusing by impedance-matched acoustic meta-surfaces. <i>Applied Physics Letters</i> , 2016 , 108, 031902	3.4	104
68	Detecting topological phases of microwave photons in a circuit quantum electrodynamics lattice. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	23
67	Controllable chaos in hybrid electro-optomechanical systems. <i>Scientific Reports</i> , 2016 , 6, 22705	4.9	13
66	Simultaneous realization of a coherent perfect absorber and laser by zero-index media with both gain and loss. <i>Physical Review A</i> , 2016 , 94,	2.6	38
65	Actively tunable double-Fano and Ramsey-Fano resonances in photonic molecules and improved sensing performance. <i>Physical Review A</i> , 2016 , 94,	2.6	7
64	Realizing and characterizing chiral photon flow in a circuit quantum electrodynamics necklace. <i>Scientific Reports</i> , 2015 , 5, 8352	4.9	24
63	Squeezed optomechanics with phase-matched amplification and dissipation. <i>Physical Review Letters</i> , 2015 , 114, 093602	7.4	182
62	Optomechanically induced transparency in the presence of an external time-harmonic-driving force. <i>Scientific Reports</i> , 2015 , 5, 11278	4.9	52
61	Coherent destruction of tunneling in a lattice array with a controllable boundary. <i>Physical Review A</i> , 2015 , 91,	2.6	8

60	PT-Symmetry-Breaking Chaos in Optomechanics. <i>Physical Review Letters</i> , 2015 , 114, 253601	7.4	205
59	Asymmetric optical transmission in an optomechanical array. <i>Applied Physics Letters</i> , 2015 , 107, 091116	3.4	46
58	All-optical control of optical frequency combs via quantum interference effects in a single-emitter-microcavity system. <i>Physical Review A</i> , 2015 , 91,	2.6	10
57	Enhanced harmonic generation and carrier-envelope phase-dependent effects in cavity quantum electrodynamics. <i>Physical Review A</i> , 2015 , 92,	2.6	4
56	Enhanced nonlinear optics in coupled optical microcavities with an unbroken and broken parity-time symmetry. <i>Physical Review A</i> , 2015 , 92,	2.6	22
55	Proposal for enhanced photon blockade in parity-time-symmetric coupled microcavities. <i>Physical Review A</i> , 2015 , 92,	2.6	34
54	Analytic descriptions of cylindrical electromagnetic waves in a nonlinear medium. <i>Scientific Reports</i> , 2015 , 5, 11071	4.9	5
53	Review of cavity optomechanics in the weak-coupling regime: from linearization to intrinsic nonlinear interactions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015 , 58, 1-13	3.6	75
52	Effective medium theory for anisotropic metamaterials. <i>Scientific Reports</i> , 2015 , 5, 7892	4.9	66
51	Generation of a multi-qubit W entangled state through spatially separated semiconductor quantum-dot-molecules in cavity-quantum electrodynamics arrays. <i>Journal of Applied Physics</i> , 2014 , 115, 134312	2.5	11
50	Controlling elastic waves with small phononic crystals containing rigid inclusions. <i>Europhysics Letters</i> , 2014 , 106, 46003	1.6	5
49	Tunable higher-order sideband spectra in a waveguide-coupled photonic crystal molecule beyond the weak-excitation approximation. <i>Physical Review A</i> , 2014 , 89,	2.6	12
48	Matched infrared soliton pairs in graphene under Landau quantization via four-wave mixing. <i>Physical Review A</i> , 2014 , 90,	2.6	40
47	Acoustic cloaking by a near-zero-index phononic crystal. <i>Applied Physics Letters</i> , 2014 , 104, 161904	3.4	71
46	Flat acoustic lens by acoustic grating with curled slits. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 3389-3392	2.3	38
45	Double Dirac cones in phononic crystals. <i>Applied Physics Letters</i> , 2014 , 105, 014107	3.4	77
44	Enhanced extraordinary optical transmission (EOT) through arrays of bridged nanohole pairs and their sensing applications. <i>Nanoscale</i> , 2014 , 6, 7917-23	7.7	26
43	Accidental degeneracy of double Dirac cones in a phononic crystal. <i>Scientific Reports</i> , 2014 , 4, 4613	4.9	76

42	Acoustic rainbow trapping by coiling up space. <i>Scientific Reports</i> , 2014 , 4, 7038	4.9	60
41	Controllable transmission and total reflection through an impedance-matched acoustic metasurface. <i>New Journal of Physics</i> , 2014 , 16, 123007	2.9	152
40	A semi-Dirac point and an electromagnetic topological transition in a dielectric photonic crystal. <i>Optics Express</i> , 2014 , 22, 1906-17	3.3	54
39	Formation and manipulation of optomechanical chaos via a bichromatic driving. <i>Physical Review A</i> , 2014 , 90,	2.6	32
38	Optical-frequency-comb generation and entanglement with low-power optical input in a photonic molecule. <i>Physical Review A</i> , 2014 , 90,	2.6	14
37	Formation and ultraslow propagation of infrared solitons in graphene under an external magnetic field. <i>Journal of Applied Physics</i> , 2014 , 115, 234301	2.5	40
36	Enhanced optical nonlinearity and fiber-optical frequency comb controlled by a single atom in a whispering-gallery-mode microtoroid resonator. <i>Physical Review A</i> , 2014 , 90,	2.6	20
35	Homogenization scheme for acoustic metamaterials. <i>Physical Review B</i> , 2014 , 89,	3.3	90
34	Dipole-induced high-order sideband comb employing a quantum dot strongly coupled to a photonic crystal cavity via a waveguide. <i>Physical Review B</i> , 2014 , 89,	3.3	12
33	Generation of long-time maximum entanglement between two dipole emitters via a hybrid photonic-plasmonic resonator. <i>Physical Review A</i> , 2013 , 87,	2.6	19
32	Achieving three-dimensional entanglement between two spatially separated atoms by using the quantum Zeno effect. <i>Physical Review A</i> , 2013 , 87,	2.6	17
31	Total reflection and cloaking by zero index metamaterials loaded with rectangular dielectric defects. <i>Applied Physics Letters</i> , 2013 , 102, 183105	3.4	54
30	Selection rule for Dirac-like points in two-dimensional dielectric photonic crystals. <i>Optics Express</i> , 2013 , 21, 7699-711	3.3	34
29	A lumped model for rotational modes in periodic solid composites. <i>Europhysics Letters</i> , 2013 , 104, 26001.6	1.6	2
28	Bio-assembled nanocomposites in conch shells exhibit giant electret hysteresis. <i>Advanced Materials</i> , 2013 , 25, 7111-8	2.4	14
27	Creation of quantum entanglement with two separate diamond nitrogen vacancy centers coupled to a photonic molecule. <i>Journal of Applied Physics</i> , 2013 , 114, 244306	2.5	11
26	A new type of artificial structure to achieve broadband omnidirectional acoustic absorption. <i>AIP Advances</i> , 2013 , 3, 102122	1.5	10
25	Anisotropic dynamic mass density for fluid-solid composites. <i>Physica B: Condensed Matter</i> , 2012 , 407, 4093-4096	2.8	6

24	First-principles study of Dirac and Dirac-like cones in phononic and photonic crystals. <i>Physical Review B</i> , 2012 , 86,	3.3	191
23	Effective medium of periodic fluid-solid composites. <i>Europhysics Letters</i> , 2012 , 98, 54001	1.6	12
22	Lumped model for rotational modes in phononic crystals. <i>Physical Review B</i> , 2012 , 86,	3.3	20
21	Higher-order sidebands in optomechanically induced transparency. <i>Physical Review A</i> , 2012 , 86,	2.6	186
20	Matched slow optical soliton pairs via biexciton coherence in quantum dots. <i>Physical Review A</i> , 2011 , 84,	2.6	122
19	Elastic metamaterials with simultaneously negative effective shear modulus and mass density. <i>Physical Review Letters</i> , 2011 , 107, 105506	7.4	222
18	Hybrid elastic solids. <i>Nature Materials</i> , 2011 , 10, 620-4	27	319
17	Steady state and time-dependent energy equilibration in two-dimensional random elastic slabs. <i>Journal of the Acoustical Society of America</i> , 2009 , 126, 1807-16	2.2	1
16	Dispersion relations and their symmetry properties of electromagnetic and elastic metamaterials in two dimensions. <i>Physical Review B</i> , 2009 , 79,	3.3	30
15	Wave propagation in strongly scattered random elastic media: Energy equilibration and crossover from ballistic to diffusive behavior. <i>Physical Review B</i> , 2008 , 77,	3.3	5
14	Effective medium theory for elastic metamaterials in two dimensions. <i>Physical Review B</i> , 2007 , 76,	3.3	139
13	Effective medium theory for magnetodielectric composites: Beyond the long-wavelength limit. <i>Physical Review B</i> , 2006 , 74,	3.3	158
12	Magic numbers and erratic level crossings of double-well Bose-Einstein condensates. <i>Optics Letters</i> , 2006 , 31, 519-21	3	23
11	Electromagnetically induced transparency in V-, Λ and cascade-type schemes beyond steady-state analysis. <i>Physical Review A</i> , 2005 , 71,	2.6	467
10	Fully quantized theory of four-wave mixing with bosonic matter waves. <i>Optics Letters</i> , 2005 , 30, 311-3	3	21
9	Preparation of multiparty entangled states using pairwise perfectly efficient single-probe photon four-wave mixing. <i>Physical Review A</i> , 2004 , 69,	2.6	146
8	Highly efficient four-wave mixing in double-system in ultraslow propagation regime. <i>Physical Review A</i> , 2004 , 70,	2.6	390
7	Eigenstates and eigenenergies of four-wave-mixing models. <i>Optics Letters</i> , 2004 , 29, 839-41	3	30

6	Achieving multifrequency mode entanglement with ultraslow multiwave mixing. <i>Optics Letters</i> , 2004 , 29, 1144-6	3	105
5	Ultraslow bright and dark optical solitons in a cold three-state medium. <i>Optics Letters</i> , 2004 , 29, 2064-6	3	214
4	Large enhancement of four-wave mixing by suppression of photon absorption from electromagnetically induced transparency. <i>Physical Review A</i> , 2003 , 67,	2.6	363
3	Efficient hyper-Raman scattering in resonant coherent media. <i>Optics Letters</i> , 2003 , 28, 631-3	3	154
2	Quadrature-dependent Bogoliubov transformations and multiphoton squeezed states. <i>Physical Review A</i> , 2002 , 66,	2.6	20
1	Unified and standardized procedure to solve various nonlinear Jaynes-Cummings models. <i>Physical Review A</i> , 1997 , 55, 4545-4551	2.6	77