

# Yong Sun

## List of Publications by Year in descending order

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94  
papers

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citations

236612

25  
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223531

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all docs

94  
docs citations

94  
times ranked

1873  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Demonstration of a Coherent Perfect Absorber with PT Phase Transition. <i>Physical Review Letters</i> , 2014, 112, 143903.	2.9	401
2	Simultaneous Observation of a Topological Edge State and Exceptional Point in an Open and Non-Hermitian Acoustic System. <i>Physical Review Letters</i> , 2018, 121, 124501.	2.9	168
3	Giant Enhancement of the Goos-Hänchen Shift Assisted by Quasibound States in the Continuum. <i>Physical Review Applied</i> , 2019, 12, .	1.5	139
4	Plasmonic analog of electromagnetically induced transparency in nanostructure graphene. <i>Optics Express</i> , 2013, 21, 28438.	1.7	135
5	Subwavelength Substrate-Integrated Fabry-Pérot Cavity Antennas Using Artificial Magnetic Conductor. <i>IEEE Transactions on Antennas and Propagation</i> , 2012, 60, 30-35.	3.1	84
6	Topological LC-circuits based on microstrips and observation of electromagnetic modes with orbital angular momentum. <i>Nature Communications</i> , 2018, 9, 4598.	5.8	76
7	Photonic simulation of topological excitations in metamaterials. <i>Scientific Reports</i> , 2014, 4, 3842.	1.6	71
8	Experimental investigation of interface states in photonic crystal heterostructures. <i>Physical Review E</i> , 2008, 78, 026607.	0.8	64
9	Electromagnetic diode based on nonlinear electromagnetically induced transparency in metamaterials. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	58
10	Manipulating electromagnetic responses of metal wires at the deep subwavelength scale via both near- and far-field couplings. <i>Applied Physics Letters</i> , 2014, 104, 091107.	1.5	52
11	Electromagnetically induced transparency in metamaterials: Influence of intrinsic loss and dynamic evolution. <i>Physical Review B</i> , 2011, 83, .	1.1	51
12	Dual quasibound states in the continuum in compound grating waveguide structures for large positive and negative Goos-Hänchen shifts with perfect reflection. <i>Physical Review A</i> , 2021, 104, .	1.0	51
13	Electromagnetic tunneling in a sandwich structure containing single negative media. <i>Physical Review E</i> , 2009, 79, 026601.	0.8	42
14	Enhanced sensitivity at high-order exceptional points in a passive wireless sensing system. <i>Optics Express</i> , 2019, 27, 27562.	1.7	40
15	Wireless Power Transfer via Topological Modes in Dimer Chains. <i>Physical Review Applied</i> , 2021, 15, .	1.5	39
16	Significant enhancement of magneto-optical effect in one-dimensional photonic crystals with a magnetized epsilon-near-zero defect. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	38
17	Observation of valley-dependent beams in photonic graphene. <i>Optics Express</i> , 2014, 22, 23605.	1.7	35
18	Zak phase and band inversion in dimerized one-dimensional locally resonant metamaterials. <i>Physical Review B</i> , 2018, 97, .	1.1	35

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19	Valley-dependent beams controlled by pseudomagnetic field in distorted photonic graphene. <i>Optics Letters</i> , 2015, 40, 3380.	1.7	33
20	Experimental demonstration of the robust edge states in a split-ring-resonator chain. <i>Optics Express</i> , 2018, 26, 12891.	1.7	32
21	Observation of Giant Extrinsic Chirality Empowered by Quasi-Bound States in the Continuum. <i>Physical Review Applied</i> , 2021, 16, .	1.5	32
22	Focusing and Super-Resolution with Partial Cloaking Based on Linear-Crossing Metamaterials. <i>Physical Review Applied</i> , 2018, 10, .	1.5	30
23	Omnidirectional optical filtering based on two kinds of photonic band gaps with different angle-dependent properties. <i>Europhysics Letters</i> , 2020, 129, 34004.	0.7	28
24	Designing All-Electric Subwavelength Metasources for Near-Field Photonic Routings. <i>Physical Review Letters</i> , 2020, 125, 157401.	2.9	27
25	Asymmetric topological edge states in a quasiperiodic Harper chain composed of split-ring resonators. <i>Optics Letters</i> , 2018, 43, 5142.	1.7	27
26	Observation of Valley Landau-Zener-Bloch Oscillations and Pseudospin Imbalance in Photonic Graphene. <i>Physical Review Letters</i> , 2018, 121, 033904.	2.9	26
27	Giant Goos-Hänchen shift with a high reflectance assisted by interface states in photonic heterostructures. <i>Physical Review A</i> , 2020, 101, .	1.0	26
28	Wide-angle ultrasensitive biosensors based on edge states in heterostructures containing hyperbolic metamaterials. <i>Optics Express</i> , 2019, 27, 24835.	1.7	26
29	Actively Controlling the Topological Transition of Dispersion Based on Electrically Controllable Metamaterials. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 596.	1.3	24
30	Experimental verification of loss-induced field enhancement and collimation in anisotropic $\sqrt{\epsilon}$ -near-zero metamaterials. <i>Physical Review B</i> , 2015, 91, .	1.1	21
31	Realizing Tunable Inverse and Normal Doppler Shifts in Reconfigurable RF Metamaterials. <i>Scientific Reports</i> , 2015, 5, 11659.	1.6	21
32	Unidirectional zero reflection as gauged parity-time symmetry. <i>New Journal of Physics</i> , 2017, 19, 123041.	1.2	21
33	High-Order Parity-Time Symmetric Model for Stable Three-Coil Wireless Power Transfer. <i>Physical Review Applied</i> , 2020, 13, .	1.5	21
34	Tailoring electromagnetic responses in a coupled-grating system with combined modulation of near-field and far-field couplings. <i>Physical Review B</i> , 2022, 105, .	1.1	21
35	Metamaterial analog of quantum interference: From electromagnetically induced transparency to absorption. <i>Europhysics Letters</i> , 2012, 98, 64007.	0.7	18
36	Actively controlled asymmetric edge states for directional wireless power transfer. <i>Optics Express</i> , 2021, 29, 7844.	1.7	16

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37	Transmission properties near Dirac-like point in two-dimensional dielectric photonic crystals. Europhysics Letters, 2014, 108, 14002.	0.7	15
38	Ultra-sensitive passive wireless sensor exploiting high-order exceptional point for weakly coupling detection. New Journal of Physics, 2021, 23, 063008.	1.2	15
39	Electromagnetically-induced-transparency-like phenomenon with resonant meta-atoms in a cavity. Physical Review A, 2015, 92, .	1.0	13
40	Anomalous transmission of disordered photonic graphenes at the Dirac point. Europhysics Letters, 2013, 103, 17003.	0.7	12
41	Transparency induced by coupled resonances in disordered metamaterials. Optics Express, 2009, 17, 24371.	1.7	10
42	Efficient and stable wireless power transfer based on the non-Hermitian physics. Chinese Physics B, 2022, 31, 010307.	0.7	10
43	Broadband Polarization Manipulation Based on W-Shaped Metasurface. Frontiers in Materials, 2022, 9, .	1.2	10
44	Highly Efficient Broadband Wave Plates Using Dispersion-Engineered High-Index-Contrast Subwavelength Gratings. Physical Review Applied, 2019, 11, .	1.5	9
45	Optical Tamm States in Dielectric Photonic Crystal Heterostructure. Chinese Physics Letters, 2008, 25, 2093-2096.	1.3	8
46	Simulation of Zitterbewegung by modelling the Dirac equation in metamaterials. New Journal of Physics, 2015, 17, 113021.	1.2	8
47	Dephasing-Induced Control of Interference Nature in Three-Level Electromagnetically Induced Transparency Systems. Scientific Reports, 2015, 5, 16370.	1.6	8
48	Controllable lasing behavior enabled by compound dielectric waveguide grating structures. Optics Express, 2016, 24, 19458.	1.7	8
49	Enhancement of (nearly) homogeneous fields in a (effective) zero-index cavity. Journal of Applied Physics, 2011, 109, 073113.	1.1	7
50	Light tunneling effect tuned by a meta-interface with electromagnetically-induced-transparency-like properties. Applied Physics Letters, 2013, 102, .	1.5	7
51	Transport properties of disordered photonic crystals around a Dirac-like point. Optics Express, 2015, 23, 5126.	1.7	7
52	Nonlinear properties of photonic crystal cavity with embedded electromagnetic-induced-transparency-like meta-atoms. Optical Materials Express, 2017, 7, 3034.	1.6	7
53	Effective optical nihility media realized by one-dimensional photonic crystals containing hyperbolic metamaterials. Optics Express, 2020, 28, 33198.	1.7	7
54	Subwavelength electromagnetic switch: Bistable wave transmission of side-coupling nonlinear meta-atom. Optics Express, 2012, 20, 24813.	1.7	6

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55	VOLTAGE CONTROL OF ELECTROMAGNETICALLY-INDUCED-TRANSPARENCY-LIKE EFFECT IN METAMATERIALS BASED ON MICROSTRIP SYSTEM. Progress in Electromagnetics Research Letters, 2014, 44, 113-118.	0.4	6
56	Metasurface-enhanced optical Tamm states and related lasing effect. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1624.	0.9	6
57	Sharp optical magnetic resonances in dielectric waveguide grating structures. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1899.	0.9	6
58	Large area subwavelength cavity antenna with planar metamaterials. AIP Advances, 2019, 9, 025032.	0.6	6
59	Broadband electromagnetically induced transparency in metamaterials based on hybridization bandgap. AIP Advances, 2020, 10, .	0.6	6
60	Nonlinear properties of light-tunneling heterostructures embedded with a highly dispersive meta-molecule. Optical Materials Express, 2018, 8, 3583.	1.6	6
61	Lasing effect enhanced by optical Tamm state with in-plane lattice plasmon. Journal of Optics (United Kingdom), 2017, 16, 1707001.	0.784314	6
62	Valley-dependent beam manipulators based on photonic graphene. Journal of Applied Physics, 2017, 121, 074501.	1.1	5
63	Prediction of interface states in liquid surface waves with one-dimensional modulation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2106-2109.	0.9	5
64	Ultra-deep stopband induced by spontaneous-emission-cancellation-like interference between two side-coupled zero-index-metamaterial-based resonators. Europhysics Letters, 2012, 100, 34003.	0.7	4
65	Investigation of the Velocities of Coals of Diverse Rank under Water- or Gas-Saturated Conditions for Application in Coalbed Methane Recovery. Geofluids, 2019, 2019, 1-14.	0.3	4
66	Significant enhancement of magnetic shielding effect by using the composite metamaterial composed of mu-near-zero media and ferrite. EPJ Applied Metamaterials, 2021, 8, 13.	0.8	4
67	Photonic topological transition in dimerized chains with the joint modulation of near-field and far-field couplings. Photonics Research, 2022, 10, 41.	3.4	4
68	Propagation of photons in metallic chain through side-branch resonators. Journal Physics D: Applied Physics, 2011, 44, 335101.	1.3	3
69	Reconfigurable magnetic near-field distributions based on the coding metasurfaces in MHz band. Optics Express, 2021, 29, 13908.	1.7	3
70	Electromagnetic diode action in an asymmetric side-coupled cavity-resonator system. Optical Materials Express, 2021, 11, 3275.	1.6	3
71	Loss revives bistable state near the exceptional point in a non-Hermitian microwave photonic meta-molecule. New Journal of Physics, 2017, 19, 063043.	1.2	2
72	Enhanced wireless power transfer using magnetostatic volume modes in anisotropic magnetic metamaterials. , 2018, , .		2

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73	Using artificial magnetic conductors to improve the efficiency of wireless power transfer. AIP Advances, 2019, 9, 045308.	0.6	2
74	Effect of longitudinal mode on the transmission properties near the Dirac-like point of the photonic crystals. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 174206.	0.2	2
75	Metamaterials-based high-gain planar antennas (invited paper). , 2012, , .		1
76	Collective coupling of randomly dispersed oscillators with cavities filled with zero-index metamaterials. European Physical Journal B, 2014, 87, 1.	0.6	1
77	Unidirectional second harmonic generation based on electromagnetic induced transparency-like phenomenon derived from standing waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1818-1822.	0.9	1
78	Meta-interface enhanced light tunneling effect and related electromagnetic diode action. Journal of Applied Physics, 2019, 126, .	1.1	1
79	Rogue waves in red blood cell suspensions. , 2017, , .		1
80	Chirality-locked valley polarization in photonic graphene. , 2018, , .		1
81	On-chip multiple beam splitting assisted by bound states in the continuum. Optics Letters, 0, , .	1.7	1
82	Photonic Bandgaps of One-Dimensional Photonic Crystals Containing Anisotropic Chiral Metamaterials. Photonics, 2022, 9, 411.	0.9	1
83	Effects of Proportion of Anhydrous CaCl <sub>2</sub> on the Expansion Properties of Soundless Cracking Agents. Energy & Fuels, 0, , .	2.5	1
84	Experimental study of the left-handed metamaterials containing distributed elements. , 2008, , .		0
85	Compact Wavelength Division Multiplexer Based on Microstrip Resonator Containing Effective Zero-Index Media. Chinese Physics Letters, 2010, 27, 034208.	1.3	0
86	High-gain Fabry-Pérot resonator antenna. , 2013, , .		0
87	Photonic simulation of the Dirac equation in metamaterials. , 2014, , .		0
88	Observation of PT-symmetric exceptional point from magnetoelectric bianisotropy. , 2016, , .		0
89	Designment of wireless power transmitting system with magnetic megahertz metamaterials. , 2019, , .		0
90	Wireless Power Transfer System Using Sub-Wavelength Toroidal Magnetic Metamaterials. , 2019, , .		0

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91	Loss-induced localized field enhancement and optical bistable state in heterostructure containing single-negative materials. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 114207.	0.2	0
92	Valley Hall effect induced by pseudomagnetic field in distorted photonic graphene. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 144204.	0.2	0
93	Landau-Zener-Bloch oscillations and valley-dependent vortex generation in photonic graphene. , 2018, , .		0
94	Electromagnetic diode based on asymmetric microwave photonic crystal. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 034701.	0.2	0