

# Wen-Xing Yang

## List of Publications by Year in descending order

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105  
papers

2,161  
citations

218381

26  
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253896

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106  
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106  
docs citations

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times ranked

654  
citing authors

#	ARTICLE	IF	CITATIONS
1	Small-diameter p-type SnS nanowire photodetectors and phototransistors with low-noise and high-performance. <i>Nanotechnology</i> , 2022, 33, 135707.	1.3	12
2	Phase-modulated single-photon nonreciprocal transport and directional router in a waveguide-cavity-emitter system beyond the chiral coupling. <i>Quantum Science and Technology</i> , 2022, 7, 015025.	2.6	16
3	Optical nonreciprocity and nonreciprocal photonic devices with directional four-wave mixing effect. <i>Optics Express</i> , 2022, 30, 6284.	1.7	11
4	Two-color second-order sideband generation via magnon Kerr nonlinearity in a cavity magnonical system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 1042.	0.9	4
5	Gain-type optomechanically induced absorption and precise mass sensor in a hybrid optomechanical system. <i>Journal of Applied Physics</i> , 2021, 129, 084504.	1.1	4
6	Controllable Goos-Hänchen shift and optical switching in an Er <sup>3+</sup> -doped yttrium aluminum garnet crystal. <i>Laser Physics Letters</i> , 2021, 18, 045205.	0.6	5
7	Enhancement of Upper Second-Order Sidebands Based on Optomechanically Induced Absorption in a Double-Cavity Optomechanical System. <i>IEEE Photonics Journal</i> , 2021, 13, 1-11.	1.0	1
8	Control of an electromagnetically induced grating by Er <sup>3+</sup> ion concentration in an Er <sup>3+</sup> -doped YAG crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 2036.	0.9	5
9	Optical soliton in a one-dimensional array of a metal nanoparticle-microcavity complex. <i>Communications in Theoretical Physics</i> , 2021, 73, 115105.	1.1	0
10	High-detectivity tin disulfide nanowire photodetectors with manipulation of localized ferroelectric polarization field. <i>Nanophotonics</i> , 2021, 10, 4637-4644.	2.9	4
11	Tunable magnon antibunching in a hybrid ferromagnet-superconductor system with two qubits. <i>Physical Review B</i> , 2021, 104, .	1.1	25
12	Phase control of the transmission in cavity magnomechanical system with magnon driving. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	20
13	Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity. <i>IEEE Photonics Journal</i> , 2020, 12, 1-8.	1.0	14
14	One- and two-dimensional electromagnetically induced gratings in an Er <sup>3+</sup> -doped yttrium aluminum garnet crystal. <i>Scientific Reports</i> , 2020, 10, 4019.	1.6	23
15	Force measurement in squeezed dissipative optomechanics in the presence of laser phase noise. <i>Optics Express</i> , 2020, 28, 12460.	1.7	5
16	High-precision three dimensional atom localization via multiphoton quantum destructive interference. <i>Optics Express</i> , 2020, 28, 25308.	1.7	2
17	Highly-precision sizing a single metal nanoparticle using a microcavity. <i>Laser Physics Letters</i> , 2020, 17, 126202.	0.6	0
18	Enhanced Kerr nonlinearity with a single quantum dot coupled to a gain cavity under weak-excitation limitation. <i>Laser Physics Letters</i> , 2019, 16, 025204.	0.6	1

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19	Realization of a highly sensitive mass sensor in a quadratically coupled optomechanical system. Physical Review A, 2019, 99, .	1.0	36
20	Squeezing-induced giant Goos-Hänchen shift and hypersensitized displacement sensor in a two-level atomic system. Physical Review A, 2019, 99, .	1.0	20
21	Highly sensitive mass detection based on nonlinear sum-sideband in a dispersive optomechanical system. Optics Express, 2019, 27, 3909.	1.7	13
22	Perfectly asymmetric Raman-Nath diffraction in disordered atomic gratings. Optics Express, 2019, 27, 24693.	1.7	6
23	Lop-sided Raman-Nath diffraction in PT-antisymmetric atomic lattices. Optics Letters, 2019, 44, 2089.	1.7	33
24	High-precision two-dimensional atom localization from four-wave mixing in a double- $\lambda$ four-level atomic system. Laser Physics, 2018, 28, 035201.	0.6	8
25	Asymmetric diffraction by atomic gratings with optical $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ symmetry in the Raman-Nath regime. Physical Review A, 2018, 97, .	1.0	54
26	Enhanced generation of charge-dependent second-order sideband and high-sensitivity charge sensors in a gain-cavity-assisted optomechanical system. Physical Review A, 2018, 98, .	1.0	31
27	Quadrature squeezing of a higher-order sideband spectrum in cavity optomechanics. Optics Letters, 2018, 43, 9.	1.7	43
28	Enhanced generation of higher-order sidebands in a single-quantum-dot cavity system coupled to a $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric double cavity. Physical Review A, 2017, 96, .	1.0	34
29	Dynamic control of coherent pulses via destructive interference in graphene under Landau quantization. Scientific Reports, 2017, 7, 2513.	1.6	6
30	Tunable two-phonon higher-order sideband amplification in a quadratically coupled optomechanical system. Scientific Reports, 2017, 7, 17637.	1.6	21
31	Coherent control of the Goos-Hänchen shift via Fano interference. Journal of Applied Physics, 2016, 119, 143101.	1.1	11
32	High-precision three-dimensional atom localization via three-wave mixing in V-type three-level atoms. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 3956-3961.	0.9	18
33	Effective hyper-Raman scattering via inhibiting electromagnetically induced transparency in monolayer graphene under an external magnetic field. Optics Letters, 2016, 41, 2891.	1.7	6
34	Coherent control of high-order-harmonic generation via tunable plasmonic bichromatic near fields in a metal nanoparticle. Physical Review A, 2016, 93, .	1.0	9
35	Three-dimensional atom localization from spatial interference in a double two-level atomic system. Physical Review A, 2016, 94, .	1.0	37
36	Dressed-state analysis of efficient three-dimensional atom localization in a ladder-type three-level atomic system. Laser Physics, 2016, 26, 075203.	0.6	5

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37	High-efficiency infrared four-wave mixing signal in monolayer graphene. <i>Laser Physics</i> , 2016, 26, 035401.	0.6	9
38	Effective terahertz signal detection via electromagnetically induced transparency in graphene. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 279.	0.9	11
39	High-order harmonics in a quantum dot and metallic nanorod complex. <i>Optics Letters</i> , 2015, 40, 4903.	1.7	20
40	Two-dimensional atom localization via phase-sensitive absorption-gain spectra in five-level hyper inverted-Y atomic systems. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1070.	0.9	22
41	Phase control of optical steady-state behaviors from Fano-type interference in triple-semiconductor quantum wells. <i>Optik</i> , 2015, 126, 2003-2008.	1.4	0
42	Diagnose human colonic tissues by terahertz near-field imaging. <i>Journal of Biomedical Optics</i> , 2015, 20, 036017.	1.4	22
43	Tunneling-induced giant Goos-Hänchen shift in quantum wells. <i>Optics Letters</i> , 2015, 40, 3133.	1.7	51
44	Ultrafast optical switching in quantum dot-metallic nanoparticle hybrid systems. <i>Optics Express</i> , 2015, 23, 13032.	1.7	47
45	Giant enhanced four-wave mixing efficiency via two-photon resonance in asymmetric quantum wells. <i>Laser Physics Letters</i> , 2015, 12, 095202.	0.6	9
46	Generation of ultrashort extreme-ultraviolet pulses by enhanced plasmonic near-fields in metallic nanoparticles. <i>Europhysics Letters</i> , 2015, 111, 24005.	0.7	1
47	Lasing on surface states in vertical-cavity surface-emission lasers. <i>Optics Letters</i> , 2014, 39, 5582.	1.7	0
48	Enhanced four-wave mixing efficiency in four-subband semiconductor quantum wells via Fano-type interference. <i>Optics Express</i> , 2014, 22, 29179.	1.7	27
49	Tunneling-assisted optical information storage with lattice polariton solitons in cavity-QED arrays. <i>Physical Review A</i> , 2014, 89, .	1.0	18
50	Coherent Single-Electron Transfer in Coupled Semiconductor Quantum Dots Driven by a Few-Cycle Pulse. <i>Communications in Theoretical Physics</i> , 2014, 62, 277-282.	1.1	0
51	Carrier-envelope phase control electron transport in an asymmetric double quantum dot irradiated by a few-cycle pulse. <i>Optics Communications</i> , 2014, 328, 96-101.	1.0	6
52	Phase control of group velocity via Fano-type interference in a triple semiconductor quantum well. <i>Optics Communications</i> , 2014, 324, 221-226.	1.0	15
53	Ultrafast single-electron transfer in coupled quantum dots driven by a few-cycle chirped pulse. <i>Journal of Applied Physics</i> , 2014, 115, 143105.	1.1	17
54	Controllable optical steady behavior from nonradiative coherence in GaAs quantum well driven by a single elliptically polarized field. <i>Modern Physics Letters B</i> , 2014, 28, 1450117.	1.0	3

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55	Interference-induced enhancement of field entanglement in a microwave-driven V-type single-atom laser. <i>Open Physics</i> , 2014, 12, .	0.8	0
56	Phase control of light propagation via Fano interference in asymmetric double quantum wells. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	12
57	Phase knob for switching steady-state behaviors from bistability to multistability via spontaneously generated coherence. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 2061.	0.9	22
58	The visibility analysis of correlated imaging based on the coherent mode representation. <i>Optik</i> , 2014, 125, 3825-3828.	1.4	0
59	Carrier-Envelope-Phase Control of Single-Electron Transport in Coupled Quantum Dots. <i>Chinese Physics Letters</i> , 2013, 30, 114205.	1.3	0
60	Impact of Interacting Quantum Coherence via Decays and Incoherent Pumping on Transient and Steady-State Behaviors of Absorption. <i>Communications in Theoretical Physics</i> , 2012, 57, 677-680.	1.1	0
61	Coherent control of optical bistability in an open $\hat{\Lambda}$ -type three-level atomic system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 2891.	0.9	92
62	Noise analysis in ghost imaging from the perspective of coherent-mode representation. <i>Chinese Physics B</i> , 2012, 21, 044206.	0.7	8
63	Giant Kerr nonlinearity induced by interacting quantum coherences from decays and incoherent pumping. <i>Chinese Physics B</i> , 2012, 21, 114208.	0.7	3
64	Matched slow optical soliton pairs via biexciton coherence in quantum dots. <i>Physical Review A</i> , 2011, 84, .	1.0	135
65	Noise analysis in correlated imaging, quantum and classical. <i>Optik</i> , 2011, 122, 1791-1794.	1.4	1
66	Ghost diffraction, lensless system and 2-f system. <i>Optik</i> , 2011, 122, 451-454.	1.4	2
67	Continuous-Variable Entanglement Generation from a Four-State Atom under Raman Excitation. <i>Communications in Theoretical Physics</i> , 2011, 56, 1097-1104.	1.1	1
68	Probe Gain without Probe field in a V-type System with an External Field Coupling Two Upper Levels. <i>Communications in Theoretical Physics</i> , 2011, 55, 667-670.	1.1	0
69	One-Step Generation of Scalable Multiparticle Entanglement for Hot Ions Driven by a Standing-Wave Laser. <i>Communications in Theoretical Physics</i> , 2011, 56, 263-267.	1.1	1
70	Formation and propagation of ultraslow three-wave-vector optical solitons in a cold seven-level triple- $\hat{\Lambda}$ atomic system under Raman excitation. <i>Physical Review A</i> , 2010, 82, .	1.0	73
71	Controllable Kerr nonlinearity with vanishing absorption in a four-level inverted-Y atomic system. <i>Optics Communications</i> , 2010, 283, 5062-5066.	1.0	22
72	Modulated Terahertz Transmission through Sub-Wavelength Cu Grating by Liquid Water. <i>Chinese Physics Letters</i> , 2010, 27, 010701.	1.3	2

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73	Three coupled ultraslow temporal solitons in a five-level tripod atomic system. <i>Physical Review A</i> , 2010, 81, .	1.0	70
74	Noise properties in a two-arm microscope imaging system with classical thermal light. <i>Applied Optics</i> , 2010, 49, 4554.	2.1	5
75	Nonlinear localized modes in bandgap microcavities. <i>Optics Letters</i> , 2010, 35, 3207.	1.7	10
76	Highly efficient four-wave mixing via intersubband transitions in InGaAs/AlAs coupled double quantum well structures. <i>Journal of Modern Optics</i> , 2009, 56, 716-721.	0.6	22
77	TRANSIENT AND STEADY-STATE ABSORPTIONS OF A WEAK PROBE FIELD IN A COUPLED DOUBLE QUANTUM-WELL STRUCTURE. <i>Modern Physics Letters B</i> , 2009, 23, 2215-2227.	1.0	6
78	Next-nearest-neighbor-tunneling-induced symmetry breaking of Hofstadter's butterfly spectrum for ultracold atoms on the honeycomb lattice. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 2774-2777.	0.9	5
79	Giant Kerr nonlinearities and slow optical solitons in coupled double quantum-well nanostructure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 374, 355-359.	0.9	50
80	Slow vector optical solitons in a cold four-level inverted-Y atomic system. <i>European Physical Journal D</i> , 2009, 55, 161-166.	0.6	24
81	Probe absorptions in an asymmetric double quantum well. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 225501.	0.6	6
82	Ultraslow temporal vector optical solitons in a cold four-level tripod atomic system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 478.	0.9	59
83	Slow vector optical solitons in a cold five-level hyper V-type atomic system. <i>Optics Express</i> , 2009, 17, 7771.	1.7	15
84	Carrier-envelope-phase dependent coherence in double quantum wells. <i>Optics Express</i> , 2009, 17, 15402.	1.7	27
85	Entanglement via atomic coherence induced by two strong classical fields. <i>Physical Review A</i> , 2009, 80, .	1.0	34
86	Massless Dirac fermions in a square optical lattice. <i>Physical Review A</i> , 2009, 79, .	1.0	57
87	Detuning management of optical solitons in coupled quantum wells. <i>Physical Review A</i> , 2009, 79, .	1.0	103
88	Efficient Scheme for One-Way Quantum Computing in Thermal Cavities. <i>International Journal of Theoretical Physics</i> , 2008, 47, 2997-3004.	0.5	1
89	Polarization qubit phase gate in a coupled quantum-well nanostructure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 7081-7085.	0.9	28
90	Controllable entanglement and polarization phase gate in coupled double quantum-well structures. <i>Optics Express</i> , 2008, 16, 17161.	1.7	27

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91	Slow optical solitons via intersubband transitions in a semiconductor quantum well. Europhysics Letters, 2008, 83, 14002.	0.7	37
92	ENCRYPTION AND DECRYPTION FOR QUANTUM SECRET SHARING PROTOCOL WITH HOT TRAPPED IONS. Modern Physics Letters B, 2008, 22, 1243-1249.	1.0	9
93	Ultraslow bright and dark solitons in semiconductor quantum wells. Physical Review A, 2008, 77, .	1.0	174
94	Practical scheme for quantum dense coding between three parties using microwave radiation in trapped ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 1245-1252.	0.6	17
95	Simple scheme for implementing the Deutsch-Jozsa algorithm in a thermal cavity. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 155-161.	0.7	22
96	Transverse acoustic wave in molecular magnets via electromagnetically induced transparency. Physical Review B, 2007, 75, .	1.1	39
97	Avoided level-crossing, correlation and entanglement of two-component Bose-Einstein condensates in a double well. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 3097-3109.	0.6	5
98	Slow bistable solitons in a cold three-state medium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 401-407.	0.6	11
99	PREPARATION AND STORAGE OF ENTANGLED STATES FOR MULTIPLE TRAPPED IONS IN THERMAL MOTION. Modern Physics Letters B, 2006, 20, 1507-1516.	1.0	3
100	SCHEME FOR DIRECT MEASURING QUASIPROBABILITY DISTRIBUTIONS OF N TRAPPED IONS IN THE DISPERSIVE REGIME. Modern Physics Letters B, 2006, 20, 1567-1573.	1.0	0
101	MULTI-COMPONENT SQUEEZED COHERENT STATE FOR N TRAPPED IONS IN ANY POSITION OF A STANDING WAVE. Modern Physics Letters B, 2005, 19, 729-735.	1.0	1
102	Efficient scheme for multipartite entanglement and quantum information processing with trapped ions. Physical Review A, 2005, 72, .	1.0	71
103	Efficient scheme for mesoscopic superpositions of motional coherent and squeezed coherent states of N trapped ions. Physical Review A, 2004, 70, .	1.0	22
104	Exact eigenstates for a class of models describing multiphoton processes in the presence of seven bosonic modes. Science in China Series G: Physics, Mechanics and Astronomy, 2004, 47, 649.	0.2	0
105	Topological Charge Measurement of the Mid-Infrared Vortex Beam via Spatially Dependent Four-Wave Mixing in an Asymmetric Semiconductor Double Quantum Well. Frontiers in Physics, 0, 10, .	1.0	3