# Wen-Xing Yang

List of Publications by Year
in descending order



| 105 | 2,161 | 218677 | 254184 |
|---|---|---|---|
| papers | citations | 26 h-index | 43 g-index |

| 106 | 106 | 106 | 654 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Ultraslow bright and dark solitons in semiconductor quantum wells. Physical Review A, 2008, 77, . | 2.5 | 174 |
| 2 | Matched slow optical soliton pairs via biexciton coherence in quantum dots. Physical Review A, 2011, 84, . | 2.5 | 135 |
| 3 | Detuning management of optical solitons in coupled quantum wells. Physical Review A, 2009, 79, . | 2.5 | 103 |
| 4 | Coherent control of optical bistability in an open Î›-type three-level atomic system. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2891. | 2.1 | 92 |
| 5 | Formation and propagation of ultraslow three-wave-vector optical solitons in a cold seven-level triple-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î›</mml:mi></mml:mrow></mml:math>atomic system under Raman excitation. Physical Review A, 2010, 82, . | 2.5 | 73 |
| 6 | Efficient scheme for multipartite entanglement and quantum information processing with trapped ions. Physical Review A, 2005, 72, . | 2.5 | 71 |
| 7 | Three coupled ultraslow temporal solitons in a five-level tripod atomic system. Physical Review A, 2010, 81, . | 2.5 | 70 |
| 8 | Ultraslow temporal vector optical solitons in a cold four-level tripod atomic system. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 478. | 2.1 | 59 |
| 9 | Massless Dirac fermions in a square optical lattice. Physical Review A, 2009, 79, . | 2.5 | 57 |
| 10 | Asymmetric diffraction by atomic gratings with optical <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> symmetry in the Raman-Nath regime. Physical Review A, 2018, 97, . | 2.5 | 54 |
| 11 | Tunneling-induced giant Goosâ€“HÃnchen shift in quantum wells. Optics Letters, 2015, 40, 3133. | 3.3 | 51 |
| 12 | Giant Kerr nonlinearities and slow optical solitons in coupled double quantum-well nanostructure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 374, 355-359. | 2.1 | 50 |
| 13 | Ultrafast optical switching in quantum dot-metallic nanoparticle hybrid systems. Optics Express, 2015, 23, 13032. | 3.4 | 47 |
| 14 | Quadrature squeezing of a higher-order sideband spectrum in cavity optomechanics. Optics Letters, 2018, 43, 9. | 3.3 | 43 |
| 15 | Transverse acoustic wave in molecular magnets via electromagnetically induced transparency. Physical Review B, 2007, 75, . | 3.2 | 39 |
| 16 | Slow optical solitons via intersubband transitions in a semiconductor quantum well. Europhysics Letters, 2008, 83, 14002. | 2.0 | 37 |
| 17 | Three-dimensional atom localization from spatial interference in a double two-level atomic system. Physical Review A, 2016, 94, . | 2.5 | 37 |
| 18 | Realization of a highly sensitive mass sensor in a quadratically coupled optomechanical system. Physical Review A, 2019, 99, . | 2.5 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Entanglement via atomic coherence induced by two strong classical fields. Physical Review A, 2009, 80, . | 2.5 | 34 |
| 20 | Enhanced generation of higher-order sidebands in a single-quantum-dotâ€“cavity system coupled to a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> -symmetric double cavity. Physical Review A, 2017, 96, . | 2.5 | 34 |
| 21 | Lop-sided Ramanâ€“Nath diffraction in PT-antisymmetric atomic lattices. Optics Letters, 2019, 44, 2089. | 3.3 | 33 |
| 22 | 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, . | 2.5 | 31 |
| 23 | Polarization qubit phase gate in a coupled quantum-well nanostructure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 7081-7085. | 2.1 | 28 |
| 24 | Controllable entanglement and polarization phase gate in coupled double quantum-well structures. Optics Express, 2008, 16, 17161. | 3.4 | 27 |
| 25 | Carrier-envelope-phase dependent coherence in double quantum wells. Optics Express, 2009, 17, 15402. | 3.4 | 27 |
| 26 | Enhanced four-wave mixing efficiency in four-subband semiconductor quantum wells via Fano-type interference. Optics Express, 2014, 22, 29179. | 3.4 | 27 |
| 27 | Tunable magnon antibunching in a hybrid ferromagnet-superconductor system with two qubits. Physical Review B, 2021, 104, . | 3.2 | 25 |
| 28 | Slow vector optical solitons in a cold four-level inverted-Y atomic system. European Physical Journal D, 2009, 55, 161-166. | 1.3 | 24 |
| 29 | One- and two-dimensional electromagnetically induced gratings in an Er3+ - doped yttrium aluminum garnet crystal. Scientific Reports, 2020, 10, 4019. | 3.3 | 23 |
| 30 | Efficient scheme for mesoscopic superpositions of motional coherent and squeezed coherent states ofNtrapped ions. Physical Review A, 2004, 70, . | 2.5 | 22 |
| 31 | Simple scheme for implementing the Deutschâ€“Jozsa algorithm in a thermal cavity. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 155-161. | 2.1 | 22 |
| 32 | Highly efficient four-wave mixing via intersubband transitions in InGaAs/AlAs coupled double quantum well structures. Journal of Modern Optics, 2009, 56, 716-721. | 1.3 | 22 |
| 33 | Controllable Kerr nonlinearity with vanishing absorption in a four-level inverted-Y atomic system. Optics Communications, 2010, 283, 5062-5066. | 2.1 | 22 |
| 34 | Phase knob for switching steady-state behaviors from bistability to multistability via spontaneously generated coherence. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2061. | 2.1 | 22 |
| 35 | Two-dimensional atom localization via phase-sensitive absorption-gain spectra in five-level hyper inverted-Y atomic systems. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1070. | 2.1 | 22 |
| 36 | Diagnose human colonic tissues by terahertz near-field imaging. Journal of Biomedical Optics, 2015, 20, 036017. | 2.6 | 22 |

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| 37 | Tunable two-phonon higher-order sideband amplification in a quadratically coupled optomechanical system. Scientific Reports, 2017, 7, 17637. | 3.3 | 21 |
| 38 | High-order harmonics in a quantum dot and metallic nanorod complex. Optics Letters, 2015, 40, 4903. | 3.3 | 20 |
| 39 | Squeezing-induced giant Goos-HÃnchen shift and hypersensitized displacement sensor in a two-level atomic system. Physical Review A, 2019, 99, . | 2.5 | 20 |
| 40 | Phase control of the transmission in cavity magnomechanical system with magnon driving. Journal of Applied Physics, 2020, 128, . | 2.5 | 20 |
| 41 | Tunneling-assisted optical information storage with lattice polariton solitons in cavity-QED arrays. Physical Review A, 2014, 89, . | 2.5 | 18 |
| 42 | 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. | 2.1 | 18 |
| 43 | 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. | 1.5 | 17 |
| 44 | Ultrafast single-electron transfer in coupled quantum dots driven by a few-cycle chirped pulse. Journal of Applied Physics, 2014, 115, 143105. | 2.5 | 17 |
| 45 | Phase-modulated single-photon nonreciprocal transport and directional router in a waveguideâ€“cavityâ€“emitter system beyond the chiral coupling. Quantum Science and Technology, 2022, 7, 015025. | 5.8 | 16 |
| 46 | Slow vector optical solitons in a cold five-level hyper V-type atomic system. Optics Express, 2009, 17, 7771. | 3.4 | 15 |
| 47 | Phase control of group velocity via Fano-type interference in a triple semiconductor quantum well. Optics Communications, 2014, 324, 221-226. | 2.1 | 15 |
| 48 | Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity. IEEE Photonics Journal, 2020, 12, 1-8. | 2.0 | 14 |
| 49 | Highly sensitive mass detection based on nonlinear sum-sideband in a dispersive optomechanical system. Optics Express, 2019, 27, 3909. | 3.4 | 13 |
| 50 | Phase control of light propagation via Fano interference in asymmetric double quantum wells. Journal of Applied Physics, 2014, 115, . | 2.5 | 12 |
| 51 | Small-diameter p-type SnS nanowire photodetectors and phototransistors with low-noise and high-performance. Nanotechnology, 2022, 33, 135707. | 2.6 | 12 |
| 52 | Slow bistable solitons in a cold three-state medium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 401-407. | 1.5 | 11 |
| 53 | Coherent control of the Goos-HÃnchen shift via Fano interference. Journal of Applied Physics, 2016, 119, 143101. | 2.5 | 11 |
| 54 | Effective terahertz signal detection via electromagnetically induced transparency in graphene. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 279. | 2.1 | 11 |

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|---|---|---|---|
| 55 | Optical nonreciprocity and nonreciprocal photonic devices with directional four-wave mixing effect. Optics Express, 2022, 30, 6284. | 3.4 | 11 |
| 56 | Nonlinear localized modes in bandgap microcavities. Optics Letters, 2010, 35, 3207. | 3.3 | 10 |
| 57 | ENCRYPTION AND DECRYPTION FOR QUANTUM SECRET SHARING PROTOCOL WITH HOT TRAPPED IONS. Modern Physics Letters B, 2008, 22, 1243-1249. | 1.9 | 9 |
| 58 | Giant enhanced four-wave mixing efficiency via two-photon resonance in asymmetric quantum wells. Laser Physics Letters, 2015, 12, 095202. | 1.4 | 9 |
| 59 | Coherent control of high-order-harmonic generation via tunable plasmonic bichromatic near fields in a metal nanoparticle. Physical Review A, 2016, 93, . | 2.5 | 9 |
| 60 | High-efficiency infrared four-wave mixing signal in monolayer graphene. Laser Physics, 2016, 26, 035401. | 1.2 | 9 |
| 61 | Noise analysis in ghost imaging from the perspective of coherent-mode representation. Chinese Physics B, 2012, 21, 044206. | 1.4 | 8 |
| 62 | High-precision two-dimensional atom localization from four-wave mixing in a double-Î› four-level atomic system. Laser Physics, 2018, 28, 035201. | 1.2 | 8 |
| 63 | TRANSIENT AND STEADY-STATE ABSORPTIONS OF A WEAK PROBE FIELD IN A COUPLED DOUBLE QUANTUM-WELL STRUCTURE. Modern Physics Letters B, 2009, 23, 2215-2227. | 1.9 | 6 |
| 64 | Probe absorptions in an asymmetric double quantum well. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 225501. | 1.5 | 6 |
| 65 | Carrier-envelope phase control electron transport in an asymmetric double quantum dot irradiated by a few-cycle pulse. Optics Communications, 2014, 328, 96-101. | 2.1 | 6 |
| 66 | Effective hyper-Raman scattering via inhibiting electromagnetically induced transparency in monolayer graphene under an external magnetic field. Optics Letters, 2016, 41, 2891. | 3.3 | 6 |
| 67 | Dynamic control of coherent pulses via destructive interference in graphene under Landau quantization. Scientific Reports, 2017, 7, 2513. | 3.3 | 6 |
| 68 | Perfectly asymmetric Raman-Nath diffraction in disordered atomic gratings. Optics Express, 2019, 27, 24693. | 3.4 | 6 |
| 69 | Avoided level-crossing, correlation and entanglement of two-component Boseâ€“Einstein condensates in a double well. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 3097-3109. | 1.5 | 5 |
| 70 | Next-nearest-neighbor-tunneling-induced symmetry breaking of Hofstadter's butterfly spectrum for ultracold atoms on the honeycomb lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2774-2777. | 2.1 | 5 |
| 71 | Noise properties in a two-arm microscope imaging system with classical thermal light. Applied Optics, 2010, 49, 4554. | 2.1 | 5 |
| 72 | Dressed-state analysis of efficient three-dimensional atom localization in a ladder-type three-level atomic system. Laser Physics, 2016, 26, 075203. | 1.2 | 5 |

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| 73 | Controllable Goosâ€“HÃnchen shift and optical switching in an Er3â€‰+â€‰-doped yttrium aluminum garnet crystal. Laser Physics Letters, 2021, 18, 045205. | 1.4 | 5 |
| 74 | Control of an electromagnetically induced grating by Er<sup>3+</sup> ion concentration in an Er<sup>3+</sup>-doped YAG crystal. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2036. | 2.1 | 5 |
| 75 | Force measurement in squeezed dissipative optomechanics in the presence of laser phase noise. Optics Express, 2020, 28, 12460. | 3.4 | 5 |
| 76 | Gain-type optomechanically induced absorption and precise mass sensor in a hybrid optomechanical system. Journal of Applied Physics, 2021, 129, 084504. | 2.5 | 4 |
| 77 | High-detectivity tin disulfide nanowire photodetectors with manipulation of localized ferroelectric polarization field. Nanophotonics, 2021, 10, 4637-4644. | 6.0 | 4 |
| 78 | Two-color second-order sideband generation via magnon Kerr nonlinearity in a cavity magnonical system. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1042. | 2.1 | 4 |
| 79 | PREPARATION AND STORAGE OF ENTANGLED STATES FOR MULTIPLE TRAPPED IONS IN THERMAL MOTION. Modern Physics Letters B, 2006, 20, 1507-1516. | 1.9 | 3 |
| 80 | Giant Kerr nonlinearity induced by interacting quantum coherences from decays and incoherent pumping. Chinese Physics B, 2012, 21, 114208. | 1.4 | 3 |
| 81 | Controllable optical steady behavior from nonradiative coherence in <font>GaAs</font> quantum well driven by a single elliptically polarized field. Modern Physics Letters B, 2014, 28, 1450117. | 1.9 | 3 |
| 82 | 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, . | 2.1 | 3 |
| 83 | Modulated Terahertz Transmission through Sub-Wavelength Cu Grating by Liquid Water. Chinese Physics Letters, 2010, 27, 010701. | 3.3 | 2 |
| 84 | Ghost diffraction, lensless system and 2-f system. Optik, 2011, 122, 451-454. | 2.9 | 2 |
| 85 | High-precision three dimensional atom localization via multiphoton quantum destructive interference. Optics Express, 2020, 28, 25308. | 3.4 | 2 |
| 86 | MULTI-COMPONENT SQUEEZED COHERENT STATE FOR N TRAPPED IONS IN ANY POSITION OF A STANDING WAVE. Modern Physics Letters B, 2005, 19, 729-735. | 1.9 | 1 |
| 87 | Efficient Scheme for One-Way Quantum Computing inÂThermal Cavities. International Journal of Theoretical Physics, 2008, 47, 2997-3004. | 1.2 | 1 |
| 88 | Noise analysis in correlated imaging, quantum and classical. Optik, 2011, 122, 1791-1794. | 2.9 | 1 |
| 89 | Continuous-Variable Entanglement Generation from a Four-State Atom under Raman Excitation. Communications in Theoretical Physics, 2011, 56, 1097-1104. | 2.5 | 1 |
| 90 | One-Step Generation of Scalable Multiparticle Entanglement for Hot Ions Driven by a Standing-Wave Laser. Communications in Theoretical Physics, 2011, 56, 263-267. | 2.5 | 1 |

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|---|---|---|---|
| 91 | Generation of ultrashort extreme-ultraviolet pulses by enhanced plasmonic near-fields in metallic nanoparticles. Europhysics Letters, 2015, 111, 24005. | 2.0 | 1 |
| 92 | Enhanced Kerr nonlinearity with a single quantum dot coupled to a gain cavity under weak-excitation limitation. Laser Physics Letters, 2019, 16, 025204. | 1.4 | 1 |
| 93 | Enhancement of Upper Second-Order Sidebands Based on Optomechanically Induced Absorption in a Double-Cavity Optomechanical System. IEEE Photonics Journal, 2021, 13, 1-11. | 2.0 | 1 |
| 94 | SCHEME FOR DIRECT MEASURING QUASIPROBABILITY DISTRIBUTIONS OF N TRAPPED IONS IN THE DISPERSIVE REGIME. Modern Physics Letters B, 2006, 20, 1567-1573. | 1.9 | 0 |
| 95 | Probe Gain without Probe field in a V-type System with an External Field Coupling Two Upper Levels. Communications in Theoretical Physics, 2011, 55, 667-670. | 2.5 | 0 |
| 96 | Impact of Interacting Quantum Coherence via Decays and Incoherent Pumping on Transient and Steady-State Behaviors of Absorption. Communications in Theoretical Physics, 2012, 57, 677-680. | 2.5 | 0 |
| 97 | Carrier-Envelope-Phase Control of Single-Electron Transport in Coupled Quantum Dots. Chinese Physics Letters, 2013, 30, 114205. | 3.3 | 0 |
| 98 | Lasing on surface states in vertical-cavity surface-emission lasers. Optics Letters, 2014, 39, 5582. | 3.3 | 0 |
| 99 | Coherent Single-Electron Transfer in Coupled Semiconductor Quantum Dots Driven by a Few-Cycle Pulse. Communications in Theoretical Physics, 2014, 62, 277-282. | 2.5 | 0 |
| 100 | Interference-induced enhancement of field entanglement in a microwave-driven V-type single-atom laser. Open Physics, 2014, 12, . | 1.7 | 0 |
| 101 | The visibility analysis of correlated imaging based on the coherent mode representation. Optik, 2014, 125, 3825-3828. | 2.9 | 0 |
| 102 | Phase control of optical steady-state behaviors from Fano-type interference in triple-semiconductor quantum wells. Optik, 2015, 126, 2003-2008. | 2.9 | 0 |
| 103 | Optical soliton in a one-dimensional array of a metal nanoparticle-microcavity complex. Communications in Theoretical Physics, 2021, 73, 115105. | 2.5 | 0 |
| 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 | Highly-precision sizing a single metal nanoparticle using a microcavity. Laser Physics Letters, 2020, 17, 126202. | 1.4 | 0 |