

Ying-Cheng Chen

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,587
citations

331259

21
h-index

288905

40
g-index

51
all docs

51
docs citations

51
times ranked

1059
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Efficient quantum memory for photonic polarization qubits generated by cavity-enhanced spontaneous parametric downconversion. <i>Optics Express</i> , 2022, 30, 19944. | 1.7 | 2 |
| 2 | Room-temperature biphoton source with a spectral brightness near the ultimate limit. <i>Physical Review Research</i> , 2022, 4, . | 1.3 | 10 |
| 3 | Efficient frequency conversion based on resonant four-wave mixing. <i>Optics Letters</i> , 2021, 46, 681. | 1.7 | 5 |
| 4 | A weakly-interacting many-body system of Rydberg polaritons based on electromagnetically induced transparency. <i>Communications Physics</i> , 2021, 4, . | 2.0 | 6 |
| 5 | Generation of sub-MHz and spectrally-bright biphotons from hot atomic vapors with a phase mismatch-free scheme. <i>Optics Express</i> , 2021, 29, 4632. | 1.7 | 14 |
| 6 | Low-loss high-fidelity frequency beam splitter with tunable split ratio based on electromagnetically induced transparency. <i>Physical Review Research</i> , 2021, 3, . | 1.3 | 12 |
| 7 | Memory-based optical polarization conversion in a double- Λ atomic system with degenerate Zeeman states. <i>Scientific Reports</i> , 2020, 10, 13990. | 1.6 | 5 |
| 8 | Subradiance dynamics in a singly excited chirally coupled atomic chain. <i>Physical Review A</i> , 2020, 101, . | 1.0 | 17 |
| 9 | Broadband coherent optical memory based on electromagnetically induced transparency. <i>Physical Review A</i> , 2020, 102, . | 1.0 | 16 |
| 10 | Quantum storage and manipulation of heralded single photons in atomic memories based on electromagnetically induced transparency. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 10 |
| 11 | Theoretical study of a memory-based optical converter with degenerate Zeeman states. <i>Physical Review A</i> , 2019, 100, . | 1.0 | 3 |
| 12 | Towards highly-efficient single-photon storage based on electromagnetically induced transparency. , 2019, , . | | 0 |
| 13 | Ultrabright, narrow-band photon-pair source for atomic quantum memories. <i>Quantum Science and Technology</i> , 2018, 3, 034005. | 2.6 | 22 |
| 14 | Highly Efficient Coherent Optical Memory Based on Electromagnetically Induced Transparency. <i>Physical Review Letters</i> , 2018, 120, 183602. | 2.9 | 175 |
| 15 | $\hat{\rho}$ -enhanced gray-molasses cooling of cesium atoms on the D_2 line. <i>Physical Review A</i> , 2018, 98, . | 1.0 | 17 |
| 16 | Absolute frequency of cesium $6S_{1/2} \rightarrow 6D_{3/2}$ hyperfine transition with a precision to nuclear magnetic octupole interaction. <i>Optics Letters</i> , 2018, 43, 1954. | 1.7 | 8 |
| 17 | Cooperative light scattering from helical-phase-imprinted atomic rings. <i>Scientific Reports</i> , 2018, 8, 9570. | 1.6 | 11 |
| 18 | Spectral shaping of cascade emissions from multiplexed cold atomic ensembles. <i>Physical Review A</i> , 2016, 93, . | 1.0 | 9 |

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|----|--|-----|-----------|
| 19 | Cooperative single-photon subradiant states. <i>Physical Review A</i> , 2016, 94, . | 1.0 | 31 |
| 20 | Large Cross-Phase Modulations at the Few-Photon Level. <i>Physical Review Letters</i> , 2016, 117, 203601. | 2.9 | 58 |
| 21 | High conversion efficiency in resonant four-wave mixing processes. <i>Optics Express</i> , 2016, 24, 1008. | 1.7 | 28 |
| 22 | Interaction between two stopped light pulses. , 2014, , . | | 0 |
| 23 | Coherence properties of amplified slow light by four-wave mixing. <i>Optics Letters</i> , 2014, 39, 3394. | 1.7 | 12 |
| 24 | Low-light-level four-wave mixing by quantum interference. <i>Physical Review A</i> , 2014, 89, . | 1.0 | 29 |
| 25 | Cold atomic media with ultrahigh optical depths. <i>Physical Review A</i> , 2014, 90, . | 1.0 | 36 |
| 26 | High-storage efficiency EIT-based optical memory. , 2014, , . | | 2 |
| 27 | Coherent Optical Memory with High Storage Efficiency and Large Fractional Delay. <i>Physical Review Letters</i> , 2013, 110, 083601. | 2.9 | 164 |
| 28 | Enhanced all-optical switching with double slow light pulses. <i>Physical Review A</i> , 2012, 86, . | 1.0 | 8 |
| 29 | Demonstration of the Interaction between Two Stopped Light Pulses. <i>Physical Review Letters</i> , 2012, 108, 173603. | 2.9 | 63 |
| 30 | Field-induced long-lived supermolecules. <i>Physical Review A</i> , 2012, 85, . | 1.0 | 6 |
| 31 | Electromagnetically-induced-transparency-based cross-phase-modulation at attojoule levels. <i>Physical Review A</i> , 2011, 83, . | 1.0 | 58 |
| 32 | Low-Light-Level Cross-Phase Modulation with Double Slow Light Pulses. <i>Physical Review Letters</i> , 2011, 106, 193006. | 2.9 | 78 |
| 33 | Creation of arbitrary spectra with an acousto-optic modulator and an injection-locked diode laser. <i>Review of Scientific Instruments</i> , 2011, 82, 083108. | 0.6 | 2 |
| 34 | Intense SrF radical beam for molecular cooling experiments. <i>Review of Scientific Instruments</i> , 2009, 80, 113111. | 0.6 | 5 |
| 35 | Using a pair of rectangular coils in the MOT for the production of cold atom clouds with large optical density. <i>Optics Express</i> , 2008, 16, 3753. | 1.7 | 52 |
| 36 | Kinetic energy oscillations in annular regions of ultracold neutral plasmas. <i>European Physical Journal D</i> , 2006, 40, 51-56. | 0.6 | 11 |

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|----|--|-----|-----------|
| 37 | Absorption imaging and spectroscopy of ultracold neutral plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S351-S362. | 0.6 | 15 |
| 38 | Spectroscopic Determination of the s-Wave Scattering Lengths of Sr86 and Sr88. Physical Review Letters, 2005, 95, 223002. | 2.9 | 52 |
| 39 | Absorption imaging of ultracold neutral plasmas. IEEE Transactions on Plasma Science, 2005, 33, 540-541. | 0.6 | 0 |
| 40 | Ultracold neutral plasmas. Plasma Physics and Controlled Fusion, 2005, 47, A297-A306. | 0.9 | 3 |
| 41 | Photoassociative Spectroscopy at Long Range in Ultracold Strontium. Physical Review Letters, 2005, 94, 083004. | 2.9 | 57 |
| 42 | Electron Screening and Kinetic-Energy Oscillations in a Strongly Coupled Plasma. Physical Review Letters, 2004, 93, 265003. | 2.9 | 99 |
| 43 | Using Absorption Imaging to Study Ion Dynamics in an Ultracold Neutral Plasma. Physical Review Letters, 2004, 92, 143001. | 2.9 | 127 |
| 44 | Quantization axes in coherent two-field spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1917. | 0.9 | 4 |
| 45 | QUANTUM INTERFERENCE IN ULTRACOLD ATOMS. , 2002, , . | | 0 |
| 46 | Pump-probe spectroscopy of cold ⁸⁷ Rb atoms in various polarization configurations. Physical Review A, 2001, 63, . | 1.0 | 28 |
| 47 | Observation of the quantum interference phenomenon induced by interacting dark resonances. Physical Review A, 2001, 64, . | 1.0 | 80 |
| 48 | Simple technique for directly and accurately measuring the number of atoms in a magneto-optical trap. Physical Review A, 2001, 64, . | 1.0 | 23 |
| 49 | Roles of degenerate Zeeman levels in electromagnetically induced transparency. Physical Review A, 2000, 61, . | 1.0 | 40 |
| 50 | Ion-size effect on T_N in $(R_{1-x}Pr_x)Ba_2Cu_3O_{7-\delta}$ systems ($R=Lu, Yb, Tm, Er, Y, Ho, Dy, Gd, Eu, Sm, \text{ and } Nd$) r. Physical Review B, 1994, 49, 15993-15999. | 1.1 | 48 |
| 51 | Ion-size effect on T_m and T_c in $(R_{1-x}Pr_x)Ba_2Cu_3O_7$ systems ($R = Yb, Tm, Er, Ho, Dy, Gd, Eu, Sm, Nd \text{ and } Y$). Physica C: Superconductivity and Its Applications, 1993, 209, 19-22. | 0.6 | 26 |