

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	Highly Efficient Coherent Optical Memory Based on Electromagnetically Induced Transparency. Physical Review Letters, 2018, 120, 183602.	2.9	175
2	Coherent Optical Memory with High Storage Efficiency and Large Fractional Delay. Physical Review Letters, 2013, 110, 083601.	2.9	164
3	Using Absorption Imaging to Study Ion Dynamics in an Ultracold Neutral Plasma. Physical Review Letters, 2004, 92, 143001.	2.9	127
4	Electron Screening and Kinetic-Energy Oscillations in a Strongly Coupled Plasma. Physical Review Letters, 2004, 93, 265003.	2.9	99
5	Observation of the quantum interference phenomenon induced by interacting dark resonances. Physical Review A, 2001, 64, .	1.0	80
6	Low-Light-Level Cross-Phase Modulation with Double Slow Light Pulses. Physical Review Letters, 2011, 106, 193006.	2.9	78
7	Demonstration of the Interaction between Two Stopped Light Pulses. Physical Review Letters, 2012, 108, 173603.	2.9	63
8	Electromagnetically-induced-transparency-based cross-phase-modulation at attojoule levels. Physical Review A, 2011, 83, .	1.0	58
9	Large Cross-Phase Modulations at the Few-Photon Level. Physical Review Letters, 2016, 117, 203601.	2.9	58
10	Photoassociative Spectroscopy at Long Range in Ultracold Strontium. Physical Review Letters, 2005, 94, 083004.	2.9	57
11	Spectroscopic Determination of the s-Wave Scattering Lengths of Sr86 and Sr88. Physical Review Letters, 2005, 95, 223002.	2.9	52
12	Using a pair of rectangular coils in the MOT for the production of cold atom clouds with large optical density. Optics Express, 2008, 16, 3753.	1.7	52
13	Ion-size effect on TN in $(R_1 \text{Pr}_x) \text{Ba}_2 \text{Cu}_3 \text{O}_{7-y}$ systems (R=Lu, Yb, Tm, Er, Y, Ho, Dy, Gd, Eu, Sm, and Nd). Physical Review B, 1994, 49, 15993-15999.	1.1	48
14	Roles of degenerate Zeeman levels in electromagnetically induced transparency. Physical Review A, 2000, 61, .	1.0	40
15	Cold atomic media with ultrahigh optical depths. Physical Review A, 2014, 90, .	1.0	36
16	Cooperative single-photon subradiant states. Physical Review A, 2016, 94, .	1.0	31
17	Low-light-level four-wave mixing by quantum interference. Physical Review A, 2014, 89, .	1.0	29
18	Pump-probe spectroscopy of cold ^{87}Rb atoms in various polarization configurations. Physical Review A, 2001, 63, .	1.0	28

#	ARTICLE	IF	CITATIONS
19	High conversion efficiency in resonant four-wave mixing processes. <i>Optics Express</i> , 2016, 24, 1008.	1.7	28
20	Ion-size effect on T_m and T_c in $(R1\hat{\alpha}^xPrx)Ba2Cu3O7$ systems ($R = Yb, Tm, Er, Ho, Dy, Gd, Eu, Sm, Nd$ and Y). <i>Physica C: Superconductivity and Its Applications</i> , 1993, 209, 19-22.	0.6	26
21	Simple technique for directly and accurately measuring the number of atoms in a magneto-optical trap. <i>Physical Review A</i> , 2001, 64, .	1.0	23
22	Ultrabright, narrow-band photon-pair source for atomic quantum memories. <i>Quantum Science and Technology</i> , 2018, 3, 034005.	2.6	22
23	$\hat{\Gamma}$ -enhanced gray-molasses cooling of cesium atoms on the D_2 line. <i>Physical Review A</i> , 2018, 96, .	1.0	17
24	Subradiance dynamics in a singly excited chirally coupled atomic chain. <i>Physical Review A</i> , 2020, 101, .	1.0	17
25	Broadband coherent optical memory based on electromagnetically induced transparency. <i>Physical Review A</i> , 2020, 102, .	1.0	16
26	Absorption imaging and spectroscopy of ultracold neutral plasmas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, S351-S362.	0.6	15
27	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
28	Coherence properties of amplified slow light by four-wave mixing. <i>Optics Letters</i> , 2014, 39, 3394.	1.7	12
29	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
30	Kinetic energy oscillations in annular regions of ultracold neutral plasmas. <i>European Physical Journal D</i> , 2006, 40, 51-56.	0.6	11
31	Cooperative light scattering from helical-phase-imprinted atomic rings. <i>Scientific Reports</i> , 2018, 8, 9570.	1.6	11
32	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
33	Room-temperature biphoton source with a spectral brightness near the ultimate limit. <i>Physical Review Research</i> , 2022, 4, .	1.3	10
34	Spectral shaping of cascade emissions from multiplexed cold atomic ensembles. <i>Physical Review A</i> , 2016, 93, .	1.0	9
35	Enhanced all-optical switching with double slow light pulses. <i>Physical Review A</i> , 2012, 86, .	1.0	8
36	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

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37	Field-induced long-lived supermolecules. <i>Physical Review A</i> , 2012, 85, .	1.0	6
38	A weakly-interacting many-body system of Rydberg polaritons based on electromagnetically induced transparency. <i>Communications Physics</i> , 2021, 4, .	2.0	6
39	Intense SrF radical beam for molecular cooling experiments. <i>Review of Scientific Instruments</i> , 2009, 80, 113111.	0.6	5
40	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
41	Efficient frequency conversion based on resonant four-wave mixing. <i>Optics Letters</i> , 2021, 46, 681.	1.7	5
42	Quantization axes in coherent two-field spectroscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 1917.	0.9	4
43	Ultracold neutral plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, A297-A306.	0.9	3
44	Theoretical study of a memory-based optical converter with degenerate Zeeman states. <i>Physical Review A</i> , 2019, 100, .	1.0	3
45	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
46	High-storage efficiency EIT-based optical memory. , 2014, , .		2
47	Efficient quantum memory for photonic polarization qubits generated by cavity-enhanced spontaneous parametric downconversion. <i>Optics Express</i> , 2022, 30, 19944.	1.7	2
48	Absorption imaging of ultracold neutral plasmas. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 540-541.	0.6	0
49	Interaction between two stopped light pulses. , 2014, , .		0
50	QUANTUM INTERFERENCE IN ULTRACOLD ATOMS. , 2002, , .		0
51	Towards highly-efficient single-photon storage based on electromagnetically induced transparency. , 2019, , .		0