

Hsiang-Hua Jen

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

651
citations

840776

11
h-index

580821

25
g-index

40
all docs

40
docs citations

40
times ranked

635
citing authors

#	ARTICLE	IF	CITATIONS
1	A quantum memory with telecom-wavelength conversion. <i>Nature Physics</i> , 2010, 6, 894-899.	16.7	273
2	Cooperative single-photon subradiant states. <i>Physical Review A</i> , 2016, 94, .	2.5	31
3	Phase-imprinted multiphoton subradiant states. <i>Physical Review A</i> , 2017, 96, .	2.5	30
4	Positive- $\langle P \rangle$ phase-space-method simulation of superradiant emission from a cascade atomic ensemble. <i>Physical Review A</i> , 2012, 85, .	2.5	22
5	Efficiency of light-frequency conversion in an atomic ensemble. <i>Physical Review A</i> , 2010, 82, .	2.5	21
6	Superradiant cascade emissions in an atomic ensemble via four-wave mixing. <i>Annals of Physics</i> , 2015, 360, 556-570.	2.8	21
7	Theory of electromagnetically induced transparency in strongly correlated quantum gases. <i>Physical Review A</i> , 2013, 87, .	2.5	17
8	Topological superfluid by blockade effects in a Rydberg-dressed Fermi gas. <i>Physical Review A</i> , 2014, 90, .	2.5	17
9	Subradiance dynamics in a singly excited chirally coupled atomic chain. <i>Physical Review A</i> , 2020, 101, .	2.5	17
10	Steady-state phase diagram of a weakly driven chiral-coupled atomic chain. <i>Physical Review Research</i> , 2020, 2, .	3.6	17
11	Bound and subradiant multiatom excitations in an atomic array with nonreciprocal couplings. <i>Physical Review A</i> , 2021, 103, .	2.5	13
12	Spectral analysis for cascade-emission-based quantum communication in atomic ensembles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 165504.	1.5	12
13	Selective transport of atomic excitations in a driven chiral-coupled atomic chain. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 065502.	1.5	12
14	Fragmented many-body states of a spin-2 Bose gas. <i>Physical Review A</i> , 2015, 91, .	2.5	11
15	Cooperative light scattering from helical-phase-imprinted atomic rings. <i>Scientific Reports</i> , 2018, 8, 9570.	3.3	11
16	Disorder-assisted excitation localization in chirally coupled quantum emitters. <i>Physical Review A</i> , 2020, 102, .	2.5	11
17	Angular Momentum of a Magnetically Trapped Atomic Condensate. <i>Physical Review Letters</i> , 2007, 98, 030403.	7.8	10
18	Cascaded cold atomic ensembles in a diamond configuration as a spectrally entangled multiphoton source. <i>Physical Review A</i> , 2017, 95, .	2.5	10

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19	Directional subradiance from helical-phase-imprinted multiphoton states. <i>Scientific Reports</i> , 2018, 8, 7163.	3.3	10
20	Spectral shaping of cascade emissions from multiplexed cold atomic ensembles. <i>Physical Review A</i> , 2016, 93, .	2.5	9
21	Quantum correlations of localized atomic excitations in a disordered atomic chain. <i>Physical Review A</i> , 2022, 105, .	2.5	9
22	Electromagnetically induced transparency and slow light in quantum degenerate atomic gases. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2855.	2.1	7
23	Superradiant laser: Effect of long-range dipole-dipole interaction. <i>Physical Review A</i> , 2016, 94, .	2.5	7
24	Cooperative single-photon subradiant states in a three-dimensional atomic array. <i>Annals of Physics</i> , 2016, 374, 27-34.	2.8	7
25	Spin-incoherent Luttinger liquid of one-dimensional spin-1 Tonks-Girardeau Bose gases: Spin-dependent properties. <i>Physical Review A</i> , 2017, 95, .	2.5	7
26	Spin-incoherent Luttinger liquid of one-dimensional $SU(\hat{N})$ fermions. <i>Physical Review A</i> , 2018, 98, .	2.5	7
27	Spin-incoherent one-dimensional spin-1 Bose Luttinger liquid. <i>Physical Review A</i> , 2016, 94, .	2.5	6
28	Entropy of entanglement in the continuous frequency space of the biphoton state from multiplexed cold atomic ensembles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 035503.	1.5	5
29	Collective single excitation dynamics in a chirally coupled atomic chain. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 205501.	1.5	5
30	Crossover from a delocalized to localized atomic excitation in an atomâ€“waveguide interface. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 105002.	1.5	4
31	Super- and sub-radiance from two-dimensional resonant dipole-dipole interactions. <i>Scientific Reports</i> , 2019, 9, 5804.	3.3	3
32	Spectral compression and entanglement reduction in the cascaded biphoton state with cavities. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 0, , .	1.5	2
33	Extracting dynamical Greenâ€™s function of ultracold quantum gases via electromagnetically induced transparency. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 2931.	2.1	1
34	Spectrally entangled biphoton state of cascade emissions from a Doppler-broadened atomic ensemble. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 135501.	1.5	1
35	Spectral shaping of the biphoton state from multiplexed thermal atomic ensembles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 085403.	1.5	1
36	Resonant dipole-dipole interactions in electromagnetically induced transparency. <i>Physical Review A</i> , 2022, 105, .	2.5	1

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37	Almost indistinguishable single photons via multiplexing cascaded biphotons with cavity modulation and phase compensation. <i>Physical Review A</i> , 2022, 105, .	2.5	1
38	Cold atom quantum memories and the telecom interface. , 2011, , .		0
39	Interpretable machine-learning identification of the crossover from subradiance to superradiance in an atomic array. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 0, , .	1.5	0