

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	Quantum correlations of localized atomic excitations in a disordered atomic chain. <i>Physical Review A</i> , 2022, 105, .	2.5	9
2	Resonant dipole-dipole interactions in electromagnetically induced transparency. <i>Physical Review A</i> , 2022, 105, .	2.5	1
3	Almost indistinguishable single photons via multiplexing cascaded biphotons with cavity modulation and phase compensation. <i>Physical Review A</i> , 2022, 105, .	2.5	1
4	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
5	Bound and subradiant multiatom excitations in an atomic array with nonreciprocal couplings. <i>Physical Review A</i> , 2021, 103, .	2.5	13
6	Disorder-assisted excitation localization in chirally coupled quantum emitters. <i>Physical Review A</i> , 2020, 102, .	2.5	11
7	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
8	Subradiance dynamics in a singly excited chirally coupled atomic chain. <i>Physical Review A</i> , 2020, 101, .	2.5	17
9	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
10	Steady-state phase diagram of a weakly driven chiral-coupled atomic chain. <i>Physical Review Research</i> , 2020, 2, .	3.6	17
11	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
12	Super- and sub-radiance from two-dimensional resonant dipole-dipole interactions. <i>Scientific Reports</i> , 2019, 9, 5804.	3.3	3
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	Spin-incoherent Luttinger liquid of one-dimensional $SU(\hat{1}^c)$ fermions. <i>Physical Review A</i> , 2018, 98, .	2.5	7
15	Cooperative light scattering from helical-phase-imprinted atomic rings. <i>Scientific Reports</i> , 2018, 8, 9570.	3.3	11
16	Directional subradiance from helical-phase-imprinted multiphoton states. <i>Scientific Reports</i> , 2018, 8, 7163.	3.3	10
17	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
18	Phase-imprinted multiphoton subradiant states. <i>Physical Review A</i> , 2017, 96, .	2.5	30

#	ARTICLE	IF	CITATIONS
19	Cascaded cold atomic ensembles in a diamond configuration as a spectrally entangled multiphoton source. <i>Physical Review A</i> , 2017, 95, .	2.5	10
20	Superradiant laser: Effect of long-range dipole-dipole interaction. <i>Physical Review A</i> , 2016, 94, .	2.5	7
21	Spin-incoherent one-dimensional spin-1 Bose Luttinger liquid. <i>Physical Review A</i> , 2016, 94, .	2.5	6
22	Cooperative single-photon subradiant states in a three-dimensional atomic array. <i>Annals of Physics</i> , 2016, 374, 27-34.	2.8	7
23	Spectral shaping of cascade emissions from multiplexed cold atomic ensembles. <i>Physical Review A</i> , 2016, 93, .	2.5	9
24	Cooperative single-photon subradiant states. <i>Physical Review A</i> , 2016, 94, .	2.5	31
25	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
26	Fragmented many-body states of a spin-2 Bose gas. <i>Physical Review A</i> , 2015, 91, .	2.5	11
27	Superradiant cascade emissions in an atomic ensemble via four-wave mixing. <i>Annals of Physics</i> , 2015, 360, 556-570.	2.8	21
28	Extracting dynamical Green'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
29	Topological superfluid by blockade effects in a Rydberg-dressed Fermi gas. <i>Physical Review A</i> , 2014, 90, .	2.5	17
30	Theory of electromagnetically induced transparency in strongly correlated quantum gases. <i>Physical Review A</i> , 2013, 87, .	2.5	17
31	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
32	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
33	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
34	Cold atom quantum memories and the telecom interface. , 2011, , .		0
35	Efficiency of light-frequency conversion in an atomic ensemble. <i>Physical Review A</i> , 2010, 82, .	2.5	21
36	A quantum memory with telecom-wavelength conversion. <i>Nature Physics</i> , 2010, 6, 894-899.	16.7	273

#	ARTICLE	IF	CITATIONS
37	Angular Momentum of a Magnetically Trapped Atomic Condensate. Physical Review Letters, 2007, 98, 030403.	7.8	10
38	Spectral compression and entanglement reduction in the cascaded biphoton state with cavities. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	1.5	2
39	Interpretable machine-learning identification of the crossover from subradiance to superradiance in an atomic array. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	1.5	0