Hebin Li

List of Publications by Year
in descending order

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72	1,640	279798	302126
papers	citations	23 h-index	39 g-index

72	72	72	1444
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Resonance lineshapes in two-dimensionalâ€Fourier transform spectroscopy. Optics Express, 2010, 18, 17699.	3.4	128
2	Electromagnetically induced transparency controlled by a microwave field. Physical Review A, 2009, 80, .	2.5	126
3	Quantum droplets of electrons and holes. Nature, 2014, 506, 471-475.	27.8	101
4	Two-Dimensional Double-Quantum Spectra Reveal Collective Resonances in an Atomic Vapor. Physical Review Letters, 2012, 108, 193201.	7.8	97
5	Unraveling quantum pathways using optical 3D Fourier-transform spectroscopy. Nature Communications, 2013, 4, 1390.	12.8	88
6	Optical imaging beyond the diffraction limit via dark states. Physical Review A, 2008, 78, .	2.5	71
7	Coherent Excitonic Coupling in an Asymmetric Double InGaAs Quantum Well Arises from Many-Body Effects. Physical Review Letters, 2014, 112, 046402.	7.8	58
8	Straining effects in MoS₂ monolayer on nanostructured substrates: temperature-dependent photoluminescence and exciton dynamics. Nanoscale, 2018, 10, 5717-5724.	5.6	54
9	Influence of confinement on biexciton binding in semiconductor quantum dot ensembles measured with two-dimensional spectroscopy. Physical Review B, 2013, 87, .	3.2	50
10	Excitation of atomic coherence using off-resonant strong laser pulses. Physical Review A, 2009, 79, .	2.5	45
11	Observation of picosecond superfluorescent pulses in rubidium atomic vapor pumped by 100-fs laser pulses. Physical Review A, 2010, 82, .	2.5	44
12	Persistent exciton-type many-body interactions in GaAs quantum wells measured using two-dimensional optical spectroscopy. Physical Review B, 2012, 85, .	3.2	44
13	Coherent Coupling of Excitons and Trions in a Photoexcited CdTe/CdMgTe Quantum Well. Physical Review Letters, 2014, 112, 097401.	7.8	44
14	Fifth-order nonlinear optical response of excitonic states in an InAs quantum dot ensemble measured with two-dimensional spectroscopy. Physical Review B, 2013, 87, .	3.2	43
15	Valley trion dynamics in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoSe</mml:mi><mml:mn>2</mml:mn></mml:msub><m Physical Review B, 2016, 94, .	3.2	43
16	Ultradispersive adaptive prism based on a coherently prepared atomic medium. Physical Review A, 2010, 81, .	2.5	42
17	Optical 2-D Fourier Transform Spectroscopy of Excitons in Semiconductor Nanostructures. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 318-328.	2.9	40
18	Probing dipoleâ€“dipole interaction in a rubidium gas via double-quantum 2D spectroscopy. Optics Letters, 2016, 41, 2954.	3.3	37

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19	Carrier-Envelope Phase Effect on Atomic Excitation by Few-Cycle rf Pulses. Physical Review Letters, 2010, 104, 103001.	7.8	34
20	Observation of scalable and deterministic multi-atom Dicke states in an atomic vapor. Optics Letters, 2019, 44, 2795.	3.3	32
21	Correlation and dephasing effects on the non-radiative coherence between bright excitons in an InAs QD ensemble measured with 2D spectroscopy. Solid State Communications, 2013, 163, 65-69.	1.9	25
22	Experimental observation of carrier-envelope-phase effects by multicycle pulses. Physical Review A, 2011, 83, .	2.5	23
23	Pulse Propagation Effects in Optical 2D Fourier-Transform Spectroscopy: Experiment. Journal of Physical Chemistry A, 2013, 117, 6279-6287.	2.5	23
24	Anisotropic homogeneous linewidth of the heavy-hole exciton in (110)-oriented GaAs quantum wells. Physical Review B, 2013, 88, .	3.2	23
25	Long range dipole-dipole interaction in low-density atomic vapors probed by double-quantum two-dimensional coherent spectroscopy. Optics Express, 2019, 27, 28891.	3.4	21
26	Pulse Propagation Effects in Optical 2D Fourier-Transform Spectroscopy: Theory. Journal of Physical Chemistry A, 2015, 119, 3936-3960.	2.5	19
27	Multi-dimensional coherent optical spectroscopy of semiconductor nanostructures: Collinear and non-collinear approaches. Journal of Applied Physics, 2015, 117, 112804.	2.5	18
28	Improvement of spectral resolution by using the excitation dependence of dipoleâ€“dipole interaction in a dense atomic gas. Applied Physics B: Lasers and Optics, 2008, 91, 229-231.	2.2	17
29	Intrinsic coherence time of trions in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoSe</mml:mi><mml:mn>2</mml:mn></mml:msub><m measured via two-dimensional coherent spectroscopy. Physical Review Materials, 2018, 2, .	2.4	17
30	Quantifying spectral diffusion by the direct measurement of the correlation function for excitons in semiconductor quantum wells. Journal of the Optical Society of America B: Optical Physics, 2016, 33, C137.	2.1	15
31	Observation of electromagnetically induced transparency in cesium molecules. Laser Physics, 2010, 20, 1725-1728.	1.2	14
32	Excitation dependence of resonance line self-broadening at different atomic densities. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 065203.	1.5	13
33	Selective reflection of a laser beam from a dilute rubidium vapor. Journal of Russian Laser Research, 2010, 31, 270-275.	0.6	13
34	Reflection optical two-dimensional Fourier-transform spectroscopy. Optics Express, 2013, 21, 1687.	3.4	13
35	Optical two-dimensional coherent spectroscopy of many-body dipoleâ€“dipole interactions and correlations in atomic vapors. Journal of Chemical Physics, 2021, 154, 214301.	3.0	11
36	Atomic noise spectra in nonlinear magneto-optical rotation in a rubidium vapor. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1702.	2.1	10

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37	Using phase dynamics in EIT to probe ground state relaxation in rubidium vapor. Journal of Modern Optics, 2009, 56, 975-979.	1.3	10
38	Localization dynamics of excitons in disordered semiconductor quantum wells. Physical Review B, 2017, 95, .	3.2	10
39	Dynamic control of EIT by changing optical phase. Journal of Modern Optics, 2008, 55, 3093-3099.	1.3	9
40	Observation of picosecond UV pulses produced by coherent scattering of IR femtosecond pulses in atomic rubidium vapor. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 515.	2.1	9
41	Ultrafast Carrier Dynamics of Dual Emissions from the Orthorhombic Phase in Methylammonium Lead Iodide Perovskites Revealed by Two-Dimensional Coherent Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 4625-4631.	4.6	9
42	Power spectra and correlations of intensity fluctuations in electromagnetically induced transparency. Journal of Modern Optics, 2007, 54, 2451-2457.	1.3	8
43	Biexcitons in semiconductor quantum dot ensembles. Physica Status Solidi (B): Basic Research, 2013, 250, 1753-1759.	1.5	8
44	Intensity correlations in a coherently prepared Rb vapor in a magnetic field. Optics Communications, 2009, 282, 39-44.	2.1	7
45	Interpretation of optical three-dimensional coherent spectroscopy. Physical Review A, 2017, 96, .	2.5	7
46	Near-infrared saturation spectroscopy of cesium molecules using a diode laser. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 723.	2.1	6
47	Variable spectral filter based on optically saturated selective reflection. Laser Physics, 2011, 21, 153-157.	1.2	6
48	Phase dependent interference effects on atomic excitation. Optics Communications, 2011, 284, 2538-2541.	2.1	6
49	2D Coherent Spectroscopy of Electronic Transitions. Advances in Atomic, Molecular and Optical Physics, 2017, 66, 1-48.	2.3	6
50	Frequency-domain model of optical frequency-comb generation in optical resonators with second- and third-order nonlinearities. Physical Review A, 2020, 102, .	2.5	6
51	Machine learning enabled lineshape analysis in optical two-dimensional coherent spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1587.	2.1	6
52	Double-quantumâ€“zero-quantum 2D coherent spectroscopy reveals quantum coherence between collective states in an atomic vapor. Optics Letters, 2022, 47, 997.	3.3	6
53	Observations of ultrafast superfluorescent beatings in a cesium atomic vapor excited by femtosecond laser pulses. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 428, 127945.	2.1	6
54	Collective Resonance of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>D</mml:mi></mml:math> States in Rubidium Atoms Probed by Optical Two-Dimensional Coherent Spectroscopy. Physical Review Letters, 2022, 128, 103601.	7.8	5

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55	Collapse of superradiant phase and Dicke phase transition at finite temperature in a hybrid optical-mechanical system. Physica Scripta, 2021, 96, 095801.	2.5	3
56	Fast phase cycling in non-collinear optical two-dimensional coherent spectroscopy. Optics Letters, 2020, 45, 5852.	3.3	3
57	A model experiment for stand-off sensing. Journal of Modern Optics, 2008, 55, 3273-3281.	1.3	2
58	Optical three-dimensional coherent spectroscopy. Proceedings of SPIE, 2014, , .	0.8	2
59	Broadband optical two-dimensional coherent spectroscopy of a rubidium atomic vapor. Physical Review A, 2022, 105, .	2.5	2
60	Optical Multidimensional Spectroscopy of Atomic Vapor. EPJ Web of Conferences, 2013, 41, 02010.	0.3	1
61	Coupling in InGaAs Double QuantumWells Studied with 2D Fourier Transform Spectroscopy. , 2013, , .		1
62	Electromagnetically induced transparency in Cs<inf>2</inf> molecules. , 2006, , .		0
63	An ultra-dispersive optically controlled atomic prism. , 2007, , .		0
64	Linewidth Anisotropy of the Heavy Hole Exciton in (110)-Oriented GaAs Quantum Wells. , 2013, , .		0
65	Determining the System Hamiltonian with Optical 3-D Spectroscopy. Optics and Photonics News, 2013, 24, 50.	0.5	0
66	Optical two-dimensional coherent spectroscopy of semiconductor nanostructures. Proceedings of SPIE, 2014, , .	0.8	0
67	Many-body interactions in GaAs quantum wells studied by pre-pulse 2DFT spectroscopy. , 2013, , .		0
68	Optical 2D coherent spectroscopy of valley dynamics in monolayer transition metal dichalcogenide. , 2018, , .		0
69	Experimental observation of multi-atom Dicke states in an atomic vapor using optical 2D coherent spectroscopy. , 2019, , .		0
70	Machine Learning Enabled Lineshape Analysis in Optical Two-Dimensional Coherent Spectroscopy. , 2020, , .		0
71	Finite-temperature Dicke phase transition and the collapse of superradiant phase in an optomechanical-atomic cavity. Results in Physics, 2021, 31, 104939.	4.1	0
72	Optical 2D Coherent Spectroscopy of Many-body Interaction and Correlation in Atoms. , 2020, , .		0