Chin-Chun Tsai

List of Publications by Year
in descending order

70	1,042	516710 16	434195 31
papers	citations	h-index	g-index

71	71	71	504
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two-Color Photoassociation Spectroscopy of Ground StateRb2. Physical Review Letters, 1997, 79, 1245-1248.	7.8	111
2	Prediction of Feshbach resonances in collisions of ultracold rubidium atoms. Physical Review A, 1997, 56, R1067-R1070.	2.5	111
3	Observation of a shape resonance in the collision of two coldRb87atoms. Physical Review A, 1997, 55, 636-640.	2.5	104
4	Observation of a Shape Resonance in Cold-Atom Scattering by Pulsed Photoassociation. Physical Review Letters, 1996, 77, 5194-5197.	7.8	89
5	Proposed modification of the criterion for the region of validity of the inverse-power expansion in diatomic long-range potentials. Chemical Physics Letters, 1995, 236, 242-246.	2.6	57
6	Observation of the 4â€‰3Î£+g, 3â€‰3Îg, 2â€‰3Î”g, and bâ€‰3Îu states of 39K2 by perturbation facilitated opticalâ€“optical double resonance spectroscopy. Journal of Chemical Physics, 1995, 102, 6646-6652.	3.0	33
7	Determination of the longâ€range potential and dissociation energy of the 1â€‰3Î”gstate of Na2. Journal of Chemical Physics, 1995, 103, 7240-7254.	3.0	30
8	Optical-optical double resonance spectroscopy of theÎ£g+1â€˜â€˜shelfâ€™â€™ states andÎg1states ofNa2using an ultrasensitive ionization detector. Physical Review Letters, 1993, 71, 1152-1155.	7.8	29
9	Shielded cylindrical spaceâ€chargeâ€limited diode ionization detector. Review of Scientific Instruments, 1992, 63, 5576-5581.	1.3	28
10	Opticalâ€“optical double resonance spectroscopy of the 5â€‰1Î£+g â€˜â€˜shelfâ€™â€™ state of Na2 using an ultrasensitive ionization detector. Journal of Chemical Physics, 1994, 100, 768-774.	3.0	24
11	Analysis of long range dispersion and exchange interactions between two K atoms. Journal of Chemical Physics, 1994, 101, 10382-10387.	3.0	23
12	Spectroscopic Study of the Na2 23Î£+g State by cw Perturbation-Facilitated Optical-Optical Double-Resonance Spectroscopy. Journal of Molecular Spectroscopy, 1993, 160, 411-421.	1.2	22
13	Hyperfine coupling constants of cesium 7D states using two-photon spectroscopy. Applied Physics B: Lasers and Optics, 2011, 105, 391-397.	2.2	20
14	Time-independent and time-dependent photoassociation of spin-polarized rubidium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 287-308.	1.5	19
15	Observation of L uncoupling in the 5Î”g1 Rydberg state of Na2. Journal of Chemical Physics, 2005, 123, 224303.	3.0	19
16	The 3â€‰1Î£+g â€˜â€˜shelfâ€™â€™ state of Na2. Journal of Chemical Physics, 1993, 99, 8480-8488.	3.0	17
17	Observation of Na2 Rydberg states and autoionization resonances by high resolution all-optical triple resonance spectroscopy. Chemical Physics Letters, 1995, 236, 553-557.	2.6	17
18	Doubly dressed states in a ladder-type system with electromagnetically induced transparency. Physical Review A, 2007, 76, .	2.5	16

#	Article	IF	Citations
19	Dissociation energy of the ground state of NaH. Journal of Chemical Physics, 2010, 133, 044301.	3.0	16
20	First observation of the quasibound levels and tunneling line broadening in the 3â€‰1Îg state of Na2 using an ultrasensitive ionization detector. Journal of Chemical Physics, 1993, 99, 7417-7423.	3.0	15
21	Optical-Optical Double Resonance Spectroscopy of the 61Î£+g Shelf State of Na2 Using an Ultrasensitive Ionization Detector. Journal of Molecular Spectroscopy, 1994, 167, 429-436.	1.2	15
22	Magnetization of carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 30, 86-92.	2.7	15
23	Single longitudinal mode external cavity blue InGaN diode laser. Optics and Laser Technology, 2019, 116, 68-71.	4.6	15
24	The study of the 39K2 Rydberg 1Î"g states by CW optical-optical double-resonance spectroscopy. Journal of Molecular Spectroscopy, 1992, 154, 324-344.	1.2	14
25	Doubly excited 2â€Š1Î"g state of Na2. Journal of Chemical Physics, 2004, 121, 10513-10518.	3.0	14
26	Ladder-type electromagnetically induced transparency with optical pumping effect. Physical Review A, 2013, 87, .	2.5	13
27	Effects of light on cesium 6Sâ€"8S two-photon transition. Optics Communications, 2010, 283, 1788-1791.	2.1	12
28	Theory and analysis of sodium dimer Rydberg states observed by all-optical triple resonance spectroscopy. Journal of Chemical Physics, 1999, 111, 6247-6252.	3.0	10
29	A narrow window of Rabi frequency for competition between electromagnetically induced transparency and Raman absorption. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 85.	2.1	10
30	The 5 1Î£+g and 6 1Î£+g States of 39K2 Studied by Optical-Optical Double Resonance Spectroscopy. Journal of Molecular Spectroscopy, 1995, 171, 200-209.	1.2	9
31	Characterization of the outer well of NaH C1Î£+ state by fluorescence depletion spectroscopy. Chemical Physics Letters, 2010, 493, 53-56.	2.6	9
32	Polarization and pressure effects in caesium 6Sâ€"8S two-photon spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 235003.	1.5	9
33	Determination of the Cesium 11s²S_{1/2}Hyperfine Magnetic Coupling Constant Using Electromagnetically Induced Transparency. Journal of the Physical Society of Japan, 2012, 81, 124302.	1.6	8
34	Observation of double-well potential of NaH C 1Î£+ state: Deriving the dissociation energy of its ground state. Journal of Chemical Physics, 2018, 148, 114301.	3.0	7
35	CO_2 laser frequency stabilization using the radio-frequency optogalvanic Lamb dip. Applied Optics, 1991, 30, 3842.	2.1	6
36	The 7â€"91Î£+gand 41ÎgStates of K2by Opticalâ€"Optical Double Resonance Spectroscopy. Journal of Molecular Spectroscopy, 1996, 177, 194-202.	1.2	6

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37	Laser Frequency-Modulated Spectroscopy of a Laser-Guided Plasma in Sodium Vapor: Line Positions for NaH (A1Î£+â€“X1Î£+), Na (9â€“13dand 11â€“14s), and Ar (5pâ€“4s). Journal of Molecular Spectroscopy, 1997, 186, 222-229.	1.2	6
38	Optical-Optical Double Resonance Spectroscopy of the 21Îg State of Na2 Using an Ultrasensitive Ionization Detector. Journal of Molecular Spectroscopy, 1994, 167, 437-449.	1.2	5
39	Low-energy electronic properties of multilayer graphite in an electric field. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 585-588.	2.7	5
40	Spectroscopic determination of the ground-state dissociation energy and isotopic shift of NaD. Journal of Chemical Physics, 2017, 147, 024301.	3.0	5
41	Î›-Doubling investigation of the 51Îg Rydberg state of Na2 using opticalâ€“optical double resonance spectroscopy. Journal of Molecular Spectroscopy, 2005, 234, 264-269.	1.2	4
42	The spectral mode evolution in a blue InGaN laser diode. Optik, 2019, 186, 41-45.	2.9	4
43	The nd1Î”g (n=11-15) Rydberg States of K2 Studied by Optical-Optical Double Resonance Spectroscopy and Space Charge Limited Diode Ionization Detector. Journal of Molecular Spectroscopy, 1995, 172, 183-193.	1.2	3
44	The third and fourth 1Î”g states of Na2: A pair of twins. Chemical Physics Letters, 2007, 439, 29-34.	2.6	3
45	Hyperfine and vibrational structure of weakly bound levels of the lowest<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mn>1</mml:mn><mml:mi>g</mml:mi></mml:msub></mml:math>state of molecular<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>87</mml:mn></mml:msup><mml:mi>Rb</mml:math	2.5	3
46	Low-light-level ladder-type electromagnetically induced transparency and two-photon absorption. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2485.	2.1	3
47	Experimental study of the Na2 31Îg state. Journal of Molecular Spectroscopy, 2005, 232, 66-72.	1.2	2
48	Observation of the ndâ€‰Î”1g (n=6, 7, and 8) Rydberg states of Na2 by optical-optical double resonance spectroscopy: L uncoupling and perturbations. Journal of Chemical Physics, 2008, 129, 024303.	3.0	2
49	Inhibition and enhancement of cesium two-photon transition under control field. Optics Express, 2012, 20, 14419.	3.4	2
50	Optical switching using controlled two-photon transition. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1347.	2.1	2
51	Observation of the shallow 2Î1 state of NaH. Journal of Chemical Physics, 2019, 150, 024303.	3.0	2
52	Mid-infrared saturated absorption spectroscopy inside a hollow glass waveguide. Optics Communications, 2020, 467, 125695.	2.1	2
53	Polarization dependence of ¹³³Cs 6S_{1/2}-6P_{3/2}-11S_{1/2} electromagnetically induced transparency at room temperature. Optics Express, 2020, 28, 26313.	3.4	2
54	Determining hyperfine transitions with electromagnetically induced transparency and optical pumping. Chinese Physics B, 2011, 20, 073101.	1.4	1

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55	Spectroscopic Study of the B 1Î State of NaH. ACS Omega, 2021, 6, 20629-20636.	3.5	1
56	An injectionâ€locked green InGaN diode laser. Microwave and Optical Technology Letters, 0, , .	1.4	1
57	Four-wave mixing involving Îžâ^'V type system: In view of dressed state picture. Chinese Journal of Physics, 2022, 77, 319-326.	3.9	1
58	Spectroscopy studies of the B/sup 1/Î/sub u/ state of Cs/sub 2/. , 0, , .		0
59	First experimental observation of the doubly-excited 2/sup 1/Î"/sub g/ state of Na/sub 2/. , 0, , .		0
60	Spectroscopy studies of the B/sup 1/Î/sub u/ state of Cs/sub 2/. , 0, , .		0
61	Observation of the 71ÎgState of Na2by Opticalâ^'Optical Double Resonance Spectroscopy. Journal of Physical Chemistry A, 2007, 111, 9764-9768.	2.5	0
62	Using electromagnetically induced transparency to assign the hyperfine transitions. , 2008, , .		0
63	Adiabatic Interaction Leading to the Avoided Crossing between the Twin 31Î"g and 41Î"g Rydberg States in Na2. Journal of Physical Chemistry A, 2009, 113, 4954-4962.	2.5	0
64	Doppler-free two-photon transitions of 6S<inf>1/2</inf>-7D<inf>3/2</inf>, <inf>5/2</inf> in cesium. , 2009, , .		0
65	Suppression of two-photon transition by quantum interference effect in atomic system. , 2009, , .		0
66	Optical properties of cesium 6S-8S two-photon transitions. , 2009, , .		0
67	All-optical switching using cesium two-photon transition. , 2013, , .		0
68	Observation of Doubly Dressed States in Ladder-Type Electromagnetically Induced Transparency System. , 2009, , .		0
69	A narrow Rabi frequency window for competition between coherent population trapping and Raman absorption. , 2009, , .		0
70	Telluriumâ€stabilized blue laser diode. Microwave and Optical Technology Letters, 0, , .	1.4	0