

# Chin-Chun Tsai

## List of Publications by Year in descending order

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70  
papers

1,042  
citations

516710

16  
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434195

31  
g-index

71  
all docs

71  
docs citations

71  
times ranked

504  
citing authors

#	ARTICLE	IF	CITATIONS
1	Four-wave mixing involving $\hat{\lambda}^{\wedge}V$ type system: In view of dressed state picture. Chinese Journal of Physics, 2022, 77, 319-326.	3.9	1
2	Spectroscopic Study of the B $1\hat{1}$ State of NaH. ACS Omega, 2021, 6, 20629-20636.	3.5	1
3	Mid-infrared saturated absorption spectroscopy inside a hollow glass waveguide. Optics Communications, 2020, 467, 125695.	2.1	2
4	Polarization dependence of $^{133}\text{Cs } 6S_{1/2} - 6P_{3/2} - 11S_{1/2}$ electromagnetically induced transparency at room temperature. Optics Express, 2020, 28, 26313.	3.4	2
5	The spectral mode evolution in a blue InGaN laser diode. Optik, 2019, 186, 41-45.	2.9	4
6	Single longitudinal mode external cavity blue InGaN diode laser. Optics and Laser Technology, 2019, 116, 68-71.	4.6	15
7	Observation of the shallow $2\hat{1}$ state of NaH. Journal of Chemical Physics, 2019, 150, 024303.	3.0	2
8	Observation of double-well potential of NaH C $1\hat{1}\Sigma^+$ state: Deriving the dissociation energy of its ground state. Journal of Chemical Physics, 2018, 148, 114301.	3.0	7
9	Spectroscopic determination of the ground-state dissociation energy and isotopic shift of NaD. Journal of Chemical Physics, 2017, 147, 024301.	3.0	5
10	Optical switching using controlled two-photon transition. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1347.	2.1	2
11	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
12	Ladder-type electromagnetically induced transparency with optical pumping effect. Physical Review A, 2013, 87, .	2.5	13
13	Hyperfine and vibrational structure of weakly bound levels of the lowest $^1\Sigma^+$ state of molecular hydrogen. $^{133}\text{Cs } 6S_{1/2} - 6P_{3/2} - 11S_{1/2}$ electromagnetically induced transparency at room temperature. Optics Express, 2020, 28, 26313.	2.5	3
14	All-optical switching using cesium two-photon transition. , 2013, , .		0
15	Determination of the Cesium $11S_{1/2}$ Hyperfine Magnetic Coupling Constant Using Electromagnetically Induced Transparency. Journal of the Physical Society of Japan, 2012, 81, 124302.	1.6	8
16	Inhibition and enhancement of cesium two-photon transition under control field. Optics Express, 2012, 20, 14419.	3.4	2
17	Hyperfine coupling constants of cesium 7D states using two-photon spectroscopy. Applied Physics B: Lasers and Optics, 2011, 105, 391-397.	2.2	20
18	Determining hyperfine transitions with electromagnetically induced transparency and optical pumping. Chinese Physics B, 2011, 20, 073101.	1.4	1

#	ARTICLE	IF	CITATIONS
19	Effects of light on cesium $6S \rightarrow 8S$ two-photon transition. Optics Communications, 2010, 283, 1788-1791.	2.1	12
20	Characterization of the outer well of NaH $C1 \Sigma^+ +$ state by fluorescence depletion spectroscopy. Chemical Physics Letters, 2010, 493, 53-56.	2.6	9
21	Dissociation energy of the ground state of NaH. Journal of Chemical Physics, 2010, 133, 044301.	3.0	16
22	Polarization and pressure effects in caesium $6S \rightarrow 8S$ two-photon spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 235003.	1.5	9
23	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
24	Adiabatic Interaction Leading to the Avoided Crossing between the Twin $31 \Sigma^+g$ and $41 \Sigma^+g$ Rydberg States in Na <sub>2</sub> . Journal of Physical Chemistry A, 2009, 113, 4954-4962.	2.5	0
25	Doppler-free two-photon transitions of $6S_{1/2} - 7D_{3/2}$ , $5/2$ in cesium. , 2009, , .		0
26	Suppression of two-photon transition by quantum interference effect in atomic system. , 2009, , .		0
27	Optical properties of cesium $6S-8S$ two-photon transitions. , 2009, , .		0
28	Observation of Doubly Dressed States in Ladder-Type Electromagnetically Induced Transparency System. , 2009, , .		0
29	A narrow Rabi frequency window for competition between coherent population trapping and Raman absorption. , 2009, , .		0
30	Observation of the $nd \Sigma^+g$ ( $n=6, 7, \text{ and } 8$ ) Rydberg states of Na <sub>2</sub> by optical-optical double resonance spectroscopy: L uncoupling and perturbations. Journal of Chemical Physics, 2008, 129, 024303.	3.0	2
31	Using electromagnetically induced transparency to assign the hyperfine transitions. , 2008, , .		0
32	Observation of the $71 \Sigma^+g$ State of Na <sub>2</sub> by Optical-Optical Double Resonance Spectroscopy. Journal of Physical Chemistry A, 2007, 111, 9764-9768.	2.5	0
33	Doubly dressed states in a ladder-type system with electromagnetically induced transparency. Physical Review A, 2007, 76, .	2.5	16
34	The third and fourth $1 \Sigma^+g$ states of Na <sub>2</sub> : A pair of twins. Chemical Physics Letters, 2007, 439, 29-34.	2.6	3
35	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
36	Experimental study of the Na <sub>2</sub> $31 \Sigma^+g$ state. Journal of Molecular Spectroscopy, 2005, 232, 66-72.	1.2	2

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37	$\hat{l}$ -Doubling investigation of the $51\hat{g}$ Rydberg state of Na <sub>2</sub> using optical $\hat{a}$ “optical double resonance spectroscopy. Journal of Molecular Spectroscopy, 2005, 234, 264-269.	1.2	4
38	Magnetization of carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 30, 86-92.	2.7	15
39	Observation of L uncoupling in the $51^ng1$ Rydberg state of Na <sub>2</sub> . Journal of Chemical Physics, 2005, 123, 224303.	3.0	19
40	Doubly excited $2\hat{s}\hat{1}^ng$ state of Na <sub>2</sub> . Journal of Chemical Physics, 2004, 121, 10513-10518.	3.0	14
41	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
42	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
43	Two-Color Photoassociation Spectroscopy of Ground State Rb <sub>2</sub> . Physical Review Letters, 1997, 79, 1245-1248.	7.8	111
44	Observation of a shape resonance in the collision of two cold Rb <sup>87</sup> atoms. Physical Review A, 1997, 55, 636-640.	2.5	104
45	Prediction of Feshbach resonances in collisions of ultracold rubidium atoms. Physical Review A, 1997, 56, R1067-R1070.	2.5	111
46	Laser Frequency-Modulated Spectroscopy of a Laser-Guided Plasma in Sodium Vapor: Line Positions for NaH ( $A1\hat{l}\hat{s}+\hat{a}$ “ $X1\hat{l}\hat{s}+$ ), Na ( $9\hat{a}$ “ $13d$ and $11\hat{a}$ “ $14s$ ), and Ar ( $5p\hat{a}$ “ $4s$ ). Journal of Molecular Spectroscopy, 1997, 186, 222-229.		6
47	The $7\hat{a}$ “ $91\hat{l}\hat{s}+g$ and $41\hat{g}$ States of K <sub>2</sub> by Optical $\hat{a}$ “Optical Double Resonance Spectroscopy. Journal of Molecular Spectroscopy, 1996, 177, 194-202.	1.2	6
48	Observation of a Shape Resonance in Cold-Atom Scattering by Pulsed Photoassociation. Physical Review Letters, 1996, 77, 5194-5197.	7.8	89
49	The $51\hat{l}\hat{s}+g$ and $61\hat{l}\hat{s}+g$ States of <sup>39</sup> K <sub>2</sub> Studied by Optical-Optical Double Resonance Spectroscopy. Journal of Molecular Spectroscopy, 1995, 171, 200-209.	1.2	9
50	The $nd1\hat{l}^ng$ ( $n=11-15$ ) Rydberg States of K <sub>2</sub> 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
51	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
52	Observation of Na <sub>2</sub> Rydberg states and autoionization resonances by high resolution all-optical triple resonance spectroscopy. Chemical Physics Letters, 1995, 236, 553-557.	2.6	17
53	Determination of the long $\hat{a}$ “range potential and dissociation energy of the $1\hat{a}$ “ $3\hat{l}^ng$ state of Na <sub>2</sub> . Journal of Chemical Physics, 1995, 103, 7240-7254.	3.0	30
54	Observation of the $4\hat{a}$ “ $3\hat{l}\hat{s}+g$ , $3\hat{a}$ “ $3\hat{l}\hat{s}g$ , $2\hat{a}$ “ $3\hat{l}^ng$ , and $b\hat{a}$ “ $3\hat{l}u$ states of <sup>39</sup> K <sub>2</sub> by perturbation facilitated optical $\hat{a}$ “optical double resonance spectroscopy. Journal of Chemical Physics, 1995, 102, 6646-6652.	3.0	33

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55	Optical-optical double resonance spectroscopy of the $5^1\Sigma^+g$ shelf state of $\text{Na}_2$ using an ultrasensitive ionization detector. Journal of Chemical Physics, 1994, 100, 768-774.	3.0	24
56	Analysis of long range dispersion and exchange interactions between two K atoms. Journal of Chemical Physics, 1994, 101, 10382-10387.	3.0	23
57	Optical-Optical Double Resonance Spectroscopy of the $6^1\Sigma^+g$ Shelf State of $\text{Na}_2$ Using an Ultrasensitive Ionization Detector. Journal of Molecular Spectroscopy, 1994, 167, 429-436.	1.2	15
58	Optical-Optical Double Resonance Spectroscopy of the $2^1\Sigma^+g$ State of $\text{Na}_2$ Using an Ultrasensitive Ionization Detector. Journal of Molecular Spectroscopy, 1994, 167, 437-449.	1.2	5
59	Spectroscopic Study of the $\text{Na}_2$ $2^3\Sigma^+g$ State by cw Perturbation-Facilitated Optical-Optical Double-Resonance Spectroscopy. Journal of Molecular Spectroscopy, 1993, 160, 411-421.	1.2	22
60	The $3^1\Sigma^+g$ shelf state of $\text{Na}_2$ . Journal of Chemical Physics, 1993, 99, 8480-8488.	3.0	17
61	First observation of the quasibound levels and tunneling line broadening in the $3^1\Sigma^+g$ state of $\text{Na}_2$ using an ultrasensitive ionization detector. Journal of Chemical Physics, 1993, 99, 7417-7423.	3.0	15
62	Optical-optical double resonance spectroscopy of the $1^1\Sigma^+g+1^1\Sigma^+g$ shelf states and $1^1\Sigma^+g$ states of $\text{Na}_2$ using an ultrasensitive ionization detector. Physical Review Letters, 1993, 71, 1152-1155.	7.8	29
63	Shielded cylindrical space-charge-limited diode ionization detector. Review of Scientific Instruments, 1992, 63, 5576-5581.	1.3	28
64	The study of the $39\text{K}_2$ Rydberg $1^1\Sigma^+g$ states by CW optical-optical double-resonance spectroscopy. Journal of Molecular Spectroscopy, 1992, 154, 324-344.	1.2	14
65	$\text{CO}_2$ laser frequency stabilization using the radio-frequency optogalvanic Lamb dip. Applied Optics, 1991, 30, 3842.	2.1	6
66	Spectroscopy studies of the $B^1\Sigma^+g$ state of $\text{Cs}_2$ , 0, , .		0
67	First experimental observation of the doubly-excited $2^1\Sigma^+g$ state of $\text{Na}_2$ , 0, , .		0
68	Spectroscopy studies of the $B^1\Sigma^+g$ state of $\text{Cs}_2$ , 0, , .		0
69	Tellurium-stabilized blue laser diode. Microwave and Optical Technology Letters, 0, , .	1.4	0
70	An injection-locked green InGaN diode laser. Microwave and Optical Technology Letters, 0, , .	1.4	1