Yi-wei Liu

List of Publications by Year
in descending order

41 papers	2,547 citations	759233 12 h-index	377865 34 g-index
42 all docs	42 docs citations	42 times ranked	1562 citing authors

#	Article	IF	Citations
1	High stability multiple-frequency cavity locking based on Doppler-free optogalvanic Calcium ion spectroscopy. Optics Express, 2022, 30, 28170.	3.4	0
2	Measuring the Î±-particle charge radius with muonic helium-4 ions. Nature, 2021, 589, 527-531.	27.8	62
3	Inverted-ladder-type optical excitation of potassium Rydberg states with hot and cold ensembles. Physical Review A, 2020, 101, .	2.5	3
4	Macroscopic matter wave quantum tunnelling. Communications Physics, 2020, 3, .	5.3	3
5	Sideband amplitude modulation absorption spectroscopy of $m {CH_4}$CH₄ at 1170 nm. Optics Express, 2019, 27, 21264.	3.4	4
6	Watt-level single-frequency tapered amplifier laser using a narrowband interference filter. Applied Optics, 2018, 57, 7038.	1.8	6
7	Laser Spectroscopy of Muonic Atoms and Ions. , 2017, , .		12
8	Sub-Doppler resolution near-infrared spectroscopy at 128â€‰â€‰Î¼m with the noise-immune cavity-enhanced optical heterodyne molecular spectroscopy method. Optics Letters, 2017, 42, 2447.	3.3	8
9	Laser spectroscopy of muonic deuterium. Science, 2016, 353, 669-673.	12.6	225
10	Measuring the second order correlation function and the coherence time using random phase modulation. Optics Express, 2016, 24, 4278.	3.4	9
11	Improved x-ray detection and particle identification with avalanche photodiodes. Review of Scientific Instruments, 2015, 86, 053102.	1.3	8
12	Noise-immune cavity-enhanced optical heterodyne molecular spectrometry on N_2O 1283â€‰â€‰Î¼m transition based on a quantum-dot external-cavity diode laser. Optics Letters, 2015, 40, 4352.	3.3	5
13	Multipass laser cavity for efficient transverse illumination of an elongated volume. Optics Express, 2014, 22, 13050.	3.4	9
14	Refined determination of the muonium-deuterium 1S-2Sisotope shift through improved frequency calibration of iodine lines. Physical Review A, 2014, 89, .	2.5	9
15	Proton Structure from the Measurement of 2S-2P Transition Frequencies of Muonic Hydrogen. Science, 2013, 339, 417-420.	12.6	676
16	Laser spectroscopy of muonic hydrogen. Annalen Der Physik, 2013, 525, 647-651.	2.4	4
17	Tunable frequency-stabilization of an ultraviolet laser using a hollow-cathode lamp of atomic thallium. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2966.	2.1	5
18	Detecting high-density ultracold molecules using atomâ€“molecule collision. New Journal of Physics, 2013, 15, 043035.	2.9	2

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19	Frequency measurement of the 6P3/2â†'7S1/2transition of thallium. Physical Review A, 2013, 88, .	2.5	5
20	Lifetime and population of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:mi>S</mml:mi></mml:mrow></mml:math>state in muonic hydrogen and deuterium. Physical Review A, 2013, 88, .	2.5	9
21	Absolute frequency measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>6</mml:mn><mml:msub><mml:mi>P</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>in thallium. Physical Review A, 2012, 86, .	2.5	13
22	The Lamb shift in muonic hydrogenThis paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at Ã‰cole de Physique, les Houches, France, 30 Mayâ€‰â€“â€‰4 June, 2010.. Canadian Journal of Physics, 2011, 89, 37-45.	1	5
23	The size of the proton and the deuteron. Journal of Physics: Conference Series, 2011, 264, 012008.	0.4	14
24	Large Enhancements in Optoelectronic Efficiencies of Nano-plastically Stressed Conjugated Polymer Strands. ACS Nano, 2011, 5, 7296-7302.	14.6	18
25	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mn>6</mml:mn><mml:mo>,</mml:mo><mml:mn>7</mml:mn></mml:mrow></mml:msup></mml:math>Li 2<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi></mml:math>Â<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:m	2.5	12
26	Prospects of laser cooling in atomic thallium. Physical Review A, 2011, 84, .	2.5	10
27	Muonic hydrogen spectroscopy: the proton radius puzzle. Proceedings of SPIE, 2010, , .	0.8	0
28	The size of the proton. Nature, 2010, 466, 213-216.	27.8	1,113
29	Thin-Disk Yb:YAG Oscillator-Amplifier Laser, ASE, and Effective Yb:YAG Lifetime. IEEE Journal of Quantum Electronics, 2009, 45, 993-1005.	1.9	92
30	Frequency stabilization of a frequency-doubled 197.2THz distributed feedback diode laser on rubidium 5S1/2â†'7S1/2 two-photon transitions. Optics and Lasers in Engineering, 2006, 44, 479-485.	3.8	3
31	Absolute frequency measurement of rubidium 5S-7S two-photon transitions using a femtosecond laser comb. , 2005, , .		0
32	Iodine stabilization of a diode laser in the optical communication band. Optics Letters, 2005, 30, 646.	3.3	8
33	Absolute frequency measurement of rubidium 5Sâ€“7S two-photon transitions with a femtosecond laser comb. Optics Letters, 2005, 30, 842.	3.3	43
34	Frequency-stabilized 1520-nm diode laser with rubidium 5S_1/2 â†' 7S_1/2 two-photon absorption. Applied Optics, 2004, 43, 6348.	2.1	11
35	Observation of rubidium 5S_1/2â†'7S_1/2 two-photon transitions with a diode laser. Optics Letters, 2004, 29, 1799.	3.3	15
36	Optical pumping in thallium: spectroscopy, coherence and linewidths. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 4241-4256.	1.5	0

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37	Two-photon spectroscopy in potassium. Measurement Science and Technology, 2001, 12, 740-743.	2.6	5
38	Pulsed laser spectroscopy in muonium and deuterium. , 2000, 127, 197-200.		4
39	Interferometric measurements of ^127I_2 reference frequencies for 1Sâ€“2S spectroscopy in muonium, hydrogen, and deuterium. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 6.	2.1	10
40	Measurement of the1sâˆ’2sEnergy Interval in Muonium. Physical Review Letters, 2000, 84, 1136-1139.	7.8	107
41	Frequency-stabilized 1520 nm diode laser to rubidium two photon absorption. , 0, , .		0