

Yi-wei Liu

List of Publications by Year in descending order

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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	The size of the proton. Nature, 2010, 466, 213-216.	27.8	1,113
2	Proton Structure from the Measurement of 2S-2P Transition Frequencies of Muonic Hydrogen. Science, 2013, 339, 417-420.	12.6	676
3	Laser spectroscopy of muonic deuterium. Science, 2016, 353, 669-673.	12.6	225
4	Measurement of the $1s^2 2s$ Energy Interval in Muonium. Physical Review Letters, 2000, 84, 1136-1139.	7.8	107
5	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
6	Measuring the $\hat{1}\pm$ -particle charge radius with muonic helium-4 ions. Nature, 2021, 589, 527-531.	27.8	62
7	Absolute frequency measurement of rubidium $5S_{1/2} \leftarrow 7S$ two-photon transitions with a femtosecond laser comb. Optics Letters, 2005, 30, 842.	3.3	43
8	Large Enhancements in Optoelectronic Efficiencies of Nano-plastically Stressed Conjugated Polymer Strands. ACS Nano, 2011, 5, 7296-7302.	14.6	18
9	Observation of rubidium $5S_{1/2} \hat{1} 7S_{1/2}$ two-photon transitions with a diode laser. Optics Letters, 2004, 29, 1799.	3.3	15
10	The size of the proton and the deuteron. Journal of Physics: Conference Series, 2011, 264, 012008.	0.4	14
11	Absolute frequency measurement of the $6^1P_1 \leftarrow 5^1S_0$ transition in thallium. Physical Review A, 2012, 86, 012501.	2.5	13
12	Absolute frequencies of the $2^1S_0 \leftarrow 1^3S_1$ transition in muonic lithium. Physical Review A, 2017, 96, 012501.	2.5	12
13	Laser Spectroscopy of Muonic Atoms and Ions. , 2017, , .		12
14	Frequency-stabilized 1520-nm diode laser with rubidium $5S_{1/2} \hat{1} 7S_{1/2}$ two-photon absorption. Applied Optics, 2004, 43, 6348.	2.1	11
15	Interferometric measurements of $^{127}I_2$ reference frequencies for $1S \leftarrow 2S$ spectroscopy in muonium, hydrogen, and deuterium. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 6.	2.1	10
16	Prospects of laser cooling in atomic thallium. Physical Review A, 2011, 84, .	2.5	10
17	Lifetime and population of the 2^1S_0 state in muonic hydrogen and deuterium. Physical Review A, 2013, 88, .	2.5	9
18	Multipass laser cavity for efficient transverse illumination of an elongated volume. Optics Express, 2014, 22, 13050.	3.4	9

#	ARTICLE	IF	CITATIONS
19	Refined determination of the muonium-deuterium $1S-2S$ isotope shift through improved frequency calibration of iodine lines. <i>Physical Review A</i> , 2014, 89, .	2.5	9
20	Measuring the second order correlation function and the coherence time using random phase modulation. <i>Optics Express</i> , 2016, 24, 4278.	3.4	9
21	Iodine stabilization of a diode laser in the optical communication band. <i>Optics Letters</i> , 2005, 30, 646.	3.3	8
22	Improved x-ray detection and particle identification with avalanche photodiodes. <i>Review of Scientific Instruments</i> , 2015, 86, 053102.	1.3	8
23	Sub-Doppler resolution near-infrared spectroscopy at $128\hat{\mu}\text{m}$ with the noise-immune cavity-enhanced optical heterodyne molecular spectroscopy method. <i>Optics Letters</i> , 2017, 42, 2447.	3.3	8
24	Watt-level single-frequency tapered amplifier laser using a narrowband interference filter. <i>Applied Optics</i> , 2018, 57, 7038.	1.8	6
25	Two-photon spectroscopy in potassium. <i>Measurement Science and Technology</i> , 2001, 12, 740-743.	2.6	5
26	The Lamb shift in muonic hydrogen This paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at <i>École de Physique, les Houches, France</i> , 30 May – 4 June, 2010.. <i>Canadian Journal of Physics</i> , 2011, 89, 37-45.		5
27	Tunable frequency-stabilization of an ultraviolet laser using a hollow-cathode lamp of atomic thallium. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2966.	2.1	5
28	Frequency measurement of the $6P_{3/2} \rightarrow 7S_{1/2}$ transition of thallium. <i>Physical Review A</i> , 2013, 88, .	2.5	5
29	Noise-immune cavity-enhanced optical heterodyne molecular spectrometry on N_2O $1283\hat{\mu}\text{m}$ transition based on a quantum-dot external-cavity diode laser. <i>Optics Letters</i> , 2015, 40, 4352.	3.3	5
30	Pulsed laser spectroscopy in muonium and deuterium. , 2000, 127, 197-200.		4
31	Laser spectroscopy of muonic hydrogen. <i>Annalen Der Physik</i> , 2013, 525, 647-651.	2.4	4
32	Sideband amplitude modulation absorption spectroscopy of CH_4 at 1170 nm. <i>Optics Express</i> , 2019, 27, 21264.	3.4	4
33	Frequency stabilization of a frequency-doubled 197.2THz distributed feedback diode laser on rubidium $5S_{1/2} \rightarrow 7S_{1/2}$ two-photon transitions. <i>Optics and Lasers in Engineering</i> , 2006, 44, 479-485.	3.8	3
34	Inverted-ladder-type optical excitation of potassium Rydberg states with hot and cold ensembles. <i>Physical Review A</i> , 2020, 101, .	2.5	3
35	Macroscopic matter wave quantum tunnelling. <i>Communications Physics</i> , 2020, 3, .	5.3	3
36	Detecting high-density ultracold molecules using atom-molecule collision. <i>New Journal of Physics</i> , 2013, 15, 043035.	2.9	2

#	ARTICLE	IF	CITATIONS
37	Optical pumping in thallium: spectroscopy, coherence and linewidths. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 4241-4256.	1.5	0
38	Frequency-stabilized 1520 nm diode laser to rubidium two photon absorption. , 0, , .		0
39	Absolute frequency measurement of rubidium 5S-7S two-photon transitions using a femtosecond laser comb. , 2005, , .		0
40	Muonic hydrogen spectroscopy: the proton radius puzzle. Proceedings of SPIE, 2010, , .	0.8	0
41	High stability multiple-frequency cavity locking based on Doppler-free optogalvanic Calcium ion spectroscopy. Optics Express, 2022, 30, 28170.	3.4	0