

# Filippo Levi

## List of Publications by Year in descending order

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83  
papers

2,570  
citations

185998

28  
h-index

197535

49  
g-index

84  
all docs

84  
docs citations

84  
times ranked

1679  
citing authors

#	ARTICLE	IF	CITATIONS
1	Geodesy and metrology with a transportable optical clock. <i>Nature Physics</i> , 2018, 14, 437-441.	6.5	316
2	Ultrastable laser interferometry for earthquake detection with terrestrial and submarine cables. <i>Science</i> , 2018, 361, 486-490.	6.0	196
3	Coherent population trapping in cesium: Dark lines and coherent microwave emission. <i>Physical Review A</i> , 1998, 58, 2345-2358.	1.0	185
4	First accuracy evaluation of NIST-F2. <i>Metrologia</i> , 2014, 51, 174-182.	0.6	153
5	Accuracy evaluation of ITCsF2: a nitrogen cooled caesium fountain. <i>Metrologia</i> , 2014, 51, 270-284.	0.6	113
6	Yellow laser performance of Dy <sup>3+</sup> in co-doped Dy,Tb:LiLuF <sub>4</sub> . <i>Optics Letters</i> , 2014, 39, 6628.	1.7	91
7	A VLBI experiment using a remote atomic clock via a coherent fibre link. <i>Scientific Reports</i> , 2017, 7, 40992.	1.6	91
8	RF spectrum of a carrier with a random phase modulation of arbitrary slope. <i>Metrologia</i> , 2008, 45, 313-324.	0.6	65
9	Physics characterization and frequency stability of the pulsed rubidium maser. <i>Physical Review A</i> , 2006, 74, .	1.0	53
10	Pulsed optically pumped frequency standard. <i>Physical Review A</i> , 2004, 70, .	1.0	51
11	Pulsed optically pumped $\text{Rb}$ vapor cell frequency standard: A multilevel approach. <i>Physical Review A</i> , 2009, 79, .	1.0	47
12	Absolute frequency measurement of the $1S_{0} \rightarrow 3P_{0}$ transition of $^{171}\text{Yb}$ with a link to international atomic time. <i>Metrologia</i> , 2020, 57, 035007.	0.6	46
13	Common-clock very long baseline interferometry using a coherent optical fiber link. <i>Optica</i> , 2020, 7, 1031.	4.8	46
14	Absolute frequency measurement of the $1S_{0} \rightarrow 3P_{0}$ transition of $^{171}\text{Yb}$ . <i>Metrologia</i> , 2017, 54, 102-112.	0.6	44
15	Coherent phase transfer for real-world twin-field quantum key distribution. <i>Nature Communications</i> , 2022, 13, 157.	5.8	44
16	Planar-waveguide external cavity laser stabilization for an optical link with $10^{-19}$ frequency stability. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 2582-2587.	1.7	43
17	Coherent microwave emission in cesium under coherent population trapping. <i>Physical Review A</i> , 1999, 59, R12-R15.	1.0	35
18	Spin-exchange frequency shift in alkali-metal-vapor cell frequency standards. <i>Physical Review A</i> , 2006, 73, .	1.0	35

#	ARTICLE	IF	CITATIONS
19	Enhanced temperature sensitivity in vapor-cell frequency standards. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2646-2654.	1.7	35
20	Optical frequency transfer over submarine fiber links. Optica, 2018, 5, 893.	4.8	34
21	Coherent-population-trapping maser: Noise spectrum and frequency stability. Physical Review A, 2004, 70, .	1.0	32
22	Microwave leakage-induced frequency shifts in the primary frequency Standards NIST-F1 and IEN-CSF1. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2376-2385.	1.7	32
23	Electronics for the Pulsed Rubidium Clock: Design and Characterization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 1731-1740.	1.7	32
24	Microwave cavities for vapor cell frequency standards. Review of Scientific Instruments, 2011, 82, 074703.	0.6	32
25	Intercontinental comparison of optical atomic clocks through very long baseline interferometry. Nature Physics, 2021, 17, 223-227.	6.5	31
26	Rabi resonances in the $\hat{\nu}$ excitation scheme. Physical Review A, 2002, 66, .	1.0	30
27	Blackbody radiation shift of the Cs133 hyperfine transition frequency. Physical Review A, 2004, 69, .	1.0	30
28	Measuring absolute frequencies beyond the GPS limit via long-haul optical frequency dissemination. Optics Express, 2016, 24, 11865.	1.7	30
29	Measurement of the blackbody radiation shift of the Cs133 hyperfine transition in an atomic fountain. Physical Review A, 2004, 70, .	1.0	29
30	Realization of an ultrastable 578-nm laser for an Yb lattice clock. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 426-431.	1.7	29
31	Efficient frequency doubling at 399 nm. Applied Optics, 2014, 53, 3388.	0.9	28
32	A coherent fiber link for very long baseline interferometry. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1907-1912.	1.7	27
33	Medium-long term frequency stability of pulsed vapor cell clocks. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1524-1534.	1.7	26
34	IEN-CsF1 accuracy evaluation and two-way frequency comparison. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1216-1224.	1.7	25
35	Power dependence of the frequency bias caused by spurious components in the microwave spectrum in atomic fountains. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1584-1589.	1.7	25
36	The pulsed rubidium clock. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 525-529.	1.7	24

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37	Pulsed optically pumped rubidium clock with high frequency-stability performance. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 457-462.	1.7	24
38	Theory of the coherent population trapping maser: A strong-field self-consistent approach. Physical Review A, 2000, 62, .	1.0	23
39	Stark-shift measurement of the $S_{1/2}, F=3 \rightarrow F=4$ hyperfine transition of Cs133. Physical Review A, 2005, 71, .	1.0	23
40	Comb-assisted cavity ring-down spectroscopy of a buffer-gas-cooled molecular beam. Physical Chemistry Chemical Physics, 2016, 18, 16715-16720.	1.3	23
41	Sideband-Enhanced Cold Atomic Source for Optical Clocks. Physical Review Applied, 2020, 13, .	1.5	23
42	Propagation and density effects in the coherent-population-trapping maser. Physical Review A, 2002, 65, .	1.0	22
43	Cryogenic fountain development at NIST and INRIM: preliminary characterization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 600-605.	1.7	20
44	Distributed Raman Optical Amplification in Phase Coherent Transfer of Optical Frequencies. IEEE Photonics Technology Letters, 2013, 25, 1711-1714.	1.3	20
45	Multiple wavelength stabilization on a single optical cavity using the offset sideband locking technique. Optics Letters, 2017, 42, 1970.	1.7	20
46	Slow light and superluminality in the coherent population trapping maser. Physical Review A, 2002, 66, .	1.0	19
47	Active disturbance rejection control of temperature for ultrastable optical cavities. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 273-280.	1.7	17
48	Frequency-Stability Performances of the Pulsed Optically Pumped Rubidium Clock: Recent Results and Future Perspectives. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 378-382.	2.4	15
49	Multistep preparation into a single Zeeman sublevel in a $\text{Rb}$ vapor cell: Theory and experiment. Physical Review A, 2009, 80, .	1.0	14
50	Subcollisional linewidth observation in the coherent-population-trapping Rb maser. Physical Review A, 2002, 65, .	1.0	12
51	Spectral purity transfer with $5 \times 10^{-17}$ instability at 1 s using a multibranch Er: fiber frequency comb. Metrologia, 2019, 56, 045008.	0.6	12
52	Intensity Detection Noise in Pulsed Vapor-Cell Frequency Standards. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1074-1079.	1.7	12
53	Ramsey-fringe shape in an alkali-metal vapor cell with buffer gas. Physical Review A, 2013, 88, .	1.0	11
54	Optically Loaded Strontium Lattice Clock With a Single Multi-Wavelength Reference Cavity. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	9

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55	Low-noise electronic design for the $^{87}\text{Rb}$ coherent population trapping maser. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1923-1930.	1.7	7
56	Kr-Based Buffer Gas for Rb Vapor-Cell Clocks. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1442-1447.	1.7	7
57	Tunable UV spectrometer for Doppler broadening thermometry of mercury. Optics Letters, 2020, 45, 3693.	1.7	6
58	Effect of a timebase mismatch in two-way optical frequency transfer. Metrologia, 2017, 54, 805-809.	0.6	5
59	Pulsed optically pumped Rb clock with optical detection: First results. , 2010, , .		4
60	CLONETS - clock network services: Strategy and innovation for clock services over optical-fibre networks. , 2017, , .		4
61	A strontium optical lattice clock apparatus for precise frequency metrology and beyond. , 2017, , .		4
62	Loaded Microwave Cavity for Compact Vapor-Cell Clocks. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 872-879.	1.7	4
63	The cryogenic fountain ITCsF2. , 2009, , .		3
64	Industrialisation approach of the pop atomic clock for application to GNSS. , 2014, , .		3
65	The Italian optical link for time and frequency. , 2017, , .		3
66	CLONETS “ Clock network services strategy and innovation for clock services over optical-fibre networks. , 2017, , .		3
67	Improved set-up for the ytterbium optical clock at INRIM. , 2013, , .		2
68	Optical frequency link between Torino and Firenze for remote comparison between Yb and Sr optical clocks. , 2012, , .		1
69	Active Disturbance Rejection Control: Application to the temperature stabilization of ultra-stable cavities. , 2012, , .		1
70	Ytterbium optical lattice clock at INRIM. , 2015, , .		1
71	Laser intensity noise transfer for pulsed vapor-cell clocks with optical detection. , 2017, , .		1
72	Time and Frequency Distribution over fibre for Geodesy, Seismology and Industry. , 2018, , .		1

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73	Coherent Interferometry over Telecom Networks for Time-Frequency Distribution and Geophysical Sensing. , 2020, , .		1
74	Optical Frequency Transfer over Submarine Fibers. , 2020, , .		1
75	INRIM Sr Optical Clock: An Optically Loaded Apparatus for High-Stability Metrology. , 2021, , .		1
76	A high sensitivity fiber optic gyroscope on multiplexed telecommunication network. , 2013, , .		0
77	Metrological characterization of INRIM's Yb lattice clock. , 2016, , .		0
78	Multiple lasers stabilization on a single three color optical cavity. , 2017, , .		0
79	Absolute frequency measurement of the <sup>171</sup> Yb optical lattice clock at INRIM. , 2017, , .		0
80	A Coherent Fibre Link for Space Geodesy. , 2019, , .		0
81	Metrological-grade tunable coherent source in the mid-infrared for molecular precision spectroscopy. , 2018, , .		0
82	Optical Atomic Clocks: From International Timekeeping to Gravity Potential Measurement. , 2019, , .		0
83	A Coherent Optical Fiber Link for Very Long Baseline Interferometry. , 2020, , .		0