Pasquale Maddaloni

List of Publications by Year
in descending order

65 papers	2,472 citations	257450 24 h-index	189892 50 g-index
65 all docs	65 docs citations	65 times ranked	1892 citing authors

#	Article	IF	Citations
1	Lamb-dip saturated-absorption cavity ring-down rovibrational molecular spectroscopy in the near-infrared. Photonics Research, 2022, 10, 1803.	7.0	9
2	Infrared Comb Spectroscopy of Buffer-Gas-Cooled Molecules: Toward Absolute Frequency Metrology of Cold Acetylene. International Journal of Molecular Sciences, 2021, 22, 250.	4.1	4
3	Absolute frequency metrology of the CHF3 8.6-Âµm ro-vibrational spectrum at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg"><mml:msup><mml:mn>10</mml:mn><mml:mrow><mml:mo>â^’</mml:mo><mml:mn>11</mml:mn></mml:mrow></mml:msup></mml:math> level. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 248, 106963.	2.3	0
4	Optical Frequency Combs in Quadratically Nonlinear Resonators. Micromachines, 2020, 11, 230.	2.9	31
5	Common-clock very long baseline interferometry using a coherent optical fiber link. Optica, 2020, 7, 1031.	9.3	46
6	A Coherent Optical Fiber Link for Very Long Baseline Interferometry. , 2020, , .		0
7	A 1800-km optical fiber link for metrology, geodesy, and clock comparison. , 2020, , .		0
8	Absolute frequency stabilization of a QCL at 8.6â€‰â€‰Âµm by modulation transfer spectroscopy. Optics Letters, 2020, 45, 4948.	3.3	4
9	Experimental Observation of Optical Frequency Combs in Doubly Resonant Second Harmonic Generation. , 2019, , .		0
10	A Coherent Fibre Link for Space Geodesy. , 2019, , .		0
11	High-precision molecular spectroscopy in the mid-infrared using quantum cascade lasers. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	38
12	Lamb-dip spectroscopy of buffer-gas-cooled molecules. Optica, 2019, 6, 436.	9.3	15
13	Frequency-comb-assisted absolute calibration and linestrength of H12C13CH ro-vibrational transitions in the 2Î½3 band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 31-35.	2.3	2
14	Rovibrational fine structure and transition dipole moment of CF3H by frequency-comb-assisted saturated spectroscopy at 8.6ÂÂµm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 373-379.	2.3	2
15	Frequency comb generation in a continuously pumped optical parametric oscillator. , 2018, , .		0
16	Laser performance of Cr2+:CdSe crystal with anti-reflection coating. , 2017, , .		1
17	Axion dark matter detection by laser induced fluorescence in rare-earth doped materials. Scientific Reports, 2017, 7, 15168.	3.3	25
18	Thermo-optical and lasing characteristics of Cr^2+-doped CdSe single crystal as tunable coherent source in the mid-infrared. Optical Materials Express, 2017, 7, 3815.	3.0	29

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19	Absolute frequency measurements of CHF_3 Doppler-free ro-vibrational transitions at 86â€‰â€‰Î¼m. Optics Letters, 2017, 42, 1911.	3.3	12
20	Direct generation of optical frequency combs in Ï‡⁽²⁾ nonlinear cavities. Nanophotonics, 2016, 5, 316-331.	6.0	44
21	Comb-assisted cavity ring-down spectroscopy of a buffer-gas-cooled molecular beam. Physical Chemistry Chemical Physics, 2016, 18, 16715-16720.	2.8	23
22	Frequency comb generation in quadratic nonlinear media. Physical Review A, 2015, 91, .	2.5	84
23	Frequency-comb-assisted precision laser spectroscopy of CHF3 around 8.6 Î¼m. Journal of Chemical Physics, 2015, 143, 234202.	3.0	9
24	Axion dark matter detection by laser spectroscopy of ultracold molecular oxygen: a proposal. New Journal of Physics, 2015, 17, 113025.	2.9	21
25	Sub-kilohertz linewidth narrowing of a mid-infrared optical parametric oscillator idler frequency by direct cavity stabilization. Optics Letters, 2015, 40, 4743.	3.3	17
26	LOW-TEMPERATURE SPECTROSCOPY OF THE¹²C₂H₂(Ï...₁+) Tj ETQq0 0 0 rgBT /Ov	4.5	9
27	Assessing the time constancy of the proton-to-electron mass ratio by precision ro-vibrational spectroscopy of a cold molecular beam. Journal of Molecular Spectroscopy, 2014, 300, 116-123.	1.2	15
28	Domain-Engineered Ferroelectric Crystals for Nonlinear and Quantum Optics. Springer Series in Materials Science, 2014, , 285-311.	0.6	0
29	Phase noise analysis of a 10 Watt Yb-doped fibre amplifier seeded by a 1-Hz-linewidth laser. Optics Express, 2013, 21, 14618.	3.4	18
30	Atomic and molecular spectroscopy with optical-frequency-comb-referenced IR coherent sources. EPJ Web of Conferences, 2013, 57, 02003.	0.3	0
31	A narrow-linewidth optical parametric oscillator for mid-infrared high-resolution spectroscopy. Molecular Physics, 2012, 110, 2103-2109.	1.7	19
32	A narrow-linewidth, frequency-stabilized OPO for sub-Doppler molecular spectroscopy around 3 Î¼m. , 2012, , .		3
33	Frequency-comb-referenced singly-resonant OPO for sub-Doppler spectroscopy. Optics Express, 2012, 20, 9178.	3.4	41
34	Probing sensitivity limits by comb-based spectroscopic techniques. , 2011, , .		0
35	Frequency-comb-referenced mid-IR sources for next-generation environmental sensors. Applied Physics B: Lasers and Optics, 2011, 102, 255-269.	2.2	29
36	Absolute measurement of the S(0) and S(1) lines in the electric quadrupole fundamental band of D2 around 3â€‚Î¼m. Journal of Chemical Physics, 2010, 133, 154317.	3.0	30

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37	Simulation of Dicke-narrowed molecular spectra recorded by off-axis high-finesse optical cavities. Molecular Physics, 2010, 108, 749-755.	1.7	3
38	Mid-infrared tunable two-dimensional Talbot array illuminator. Applied Physics Letters, 2009, 94, 121105.	3.3	20
39	Optical comb generators for laser frequency measurement. Measurement Science and Technology, 2009, 20, 052001.	2.6	60
40	Non-collinear quasi phase matching and annular profiles in difference frequency generation with focused Gaussian beams. Optics Express, 2008, 16, 8056.	3.4	6
41	Absolute frequency measurement of molecular transitions by a direct link to a comb generated around 3-Âµm. Optics Express, 2008, 16, 8242.	3.4	52
42	Ultra-high sensitivity frequency-comb-referenced multi-parametric sensors based on 1-D photonic components. , 2008, , .		1
43	Off-axis integrated-cavity-output spectroscopy for trace-gas concentration measurements: modeling and performance. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1938.	2.1	20
44	Combining a difference-frequency source with an off-axis high-finesse cavity for trace-gas monitoring around 3 Âµm. Optics Express, 2006, 14, 1304.	3.4	34
45	Two-tone frequency modulation spectroscopy for ambient-air trace gas detection using a portable difference-frequency source around 3ÂÎ¼m. Applied Physics B: Lasers and Optics, 2006, 85, 219-222.	2.2	30
46	Mid-infrared fibre-based optical comb. New Journal of Physics, 2006, 8, 262-262.	2.9	68
47	A 3.5-mW continuous-wave difference-frequency source around 3ÂÎ¼m for sub-Doppler molecular spectroscopy. Applied Physics B: Lasers and Optics, 2005, 80, 141-145.	2.2	63
48	Thickness measurement of thin transparent plates with a broadband wavelength-scanning interferometer. , 2004, 5458, 64.		0
49	Thickness Measurement of Thin Transparent Plates With a Broad-Band Wavelength Scanning Interferometer. IEEE Photonics Technology Letters, 2004, 16, 1349-1351.	2.5	9
50	High-sensitivity and high-resolution trace gas detection by means of a mW-power DFG spectrometer around 3.2 Î¼m. , 2004, , .		0
51	Macroscopic oscillations between two weakly coupled Bose-Einstein condensates. European Physical Journal B, 2003, 31, 457-461.	1.5	25
52	Collective Excitations of a Trapped Bose-Einstein Condensate in the Presence of a 1D Optical Lattice. Physical Review Letters, 2003, 90, 140405.	7.8	51
53	Superfluid current disruption in a chain of weakly coupled Boseâ€“Einstein condensates. New Journal of Physics, 2003, 5, 71-71.	2.9	179
54	Dynamics of a trapped BoseÂEinstein condensate in the presence of a one-dimensional optical lattice. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S17-S22.	1.4	12

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55	Dynamics of a Bose-Einstein condensate at finite temperature in an atom-optical coherence filter. Physical Review A, 2002, 66, .	2.5	35
56	Quasi-2D Bose-Einstein condensation in an optical lattice. Europhysics Letters, 2002, 57, 1-6.	2.0	103
57	Spatial interference of coherent atomic waves by manipulation of the internal quantum state. Optics Letters, 2001, 26, 1039.	3.3	9
58	Time-Domain Atom Interferometry across the Threshold for Bose-Einstein Condensation. Physical Review Letters, 2001, 87, 170401.	7.8	14
59	Josephson Junction Arrays with Bose-Einstein Condensates. Science, 2001, 293, 843-846.	12.6	750
60	Damping and frequency shift in the oscillations of two colliding Bose-Einstein condensates. European Physical Journal D, 2001, 17, 345-349.	1.3	1
61	Time-domain Ramsey interferometry with Boseâ€“Einstein condensates. Comptes Rendus Physique, 2001, 2, 605-612.	0.1	5
62	Expansion of a Coherent Array of Bose-Einstein Condensates. Physical Review Letters, 2001, 87, 220401.	7.8	168
63	Dynamics of two colliding Bose-Einstein condensates in an elongated magnetostatic trap. Physical Review A, 2000, 62, .	2.5	36
64	Collective Oscillations of Two Colliding Bose-Einstein Condensates. Physical Review Letters, 2000, 85, 2413-2417.	7.8	130
65	Laser-Based Measurements for Time and Frequency Domain Applications. , 0, , .		8