Pasquale Maddaloni

List of Publications by Year
in descending order

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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	Josephson Junction Arrays with Bose-Einstein Condensates. Science, 2001, 293, 843-846.	12.6	750
2	Superfluid current disruption in a chain of weakly coupled Boseâ€“Einstein condensates. New Journal of Physics, 2003, 5, 71-71.	2.9	179
3	Expansion of a Coherent Array of Bose-Einstein Condensates. Physical Review Letters, 2001, 87, 220401.	7.8	168
4	Collective Oscillations of Two Colliding Bose-Einstein Condensates. Physical Review Letters, 2000, 85, 2413-2417.	7.8	130
5	Quasi-2D Bose-Einstein condensation in an optical lattice. Europhysics Letters, 2002, 57, 1-6.	2.0	103
6	Frequency comb generation in quadratic nonlinear media. Physical Review A, 2015, 91, .	2.5	84
7	Mid-infrared fibre-based optical comb. New Journal of Physics, 2006, 8, 262-262.	2.9	68
8	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
9	Optical comb generators for laser frequency measurement. Measurement Science and Technology, 2009, 20, 052001.	2.6	60
10	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
11	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
12	Common-clock very long baseline interferometry using a coherent optical fiber link. Optica, 2020, 7, 1031.	9.3	46
13	Direct generation of optical frequency combs in Ï‡⁽²⁾ nonlinear cavities. Nanophotonics, 2016, 5, 316-331.	6.0	44
14	Frequency-comb-referenced singly-resonant OPO for sub-Doppler spectroscopy. Optics Express, 2012, 20, 9178.	3.4	41
15	High-precision molecular spectroscopy in the mid-infrared using quantum cascade lasers. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	38
16	Dynamics of two colliding Bose-Einstein condensates in an elongated magnetostatic trap. Physical Review A, 2000, 62, .	2.5	36
17	Dynamics of a Bose-Einstein condensate at finite temperature in an atom-optical coherence filter. Physical Review A, 2002, 66, .	2.5	35
18	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

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19	Optical Frequency Combs in Quadratically Nonlinear Resonators. Micromachines, 2020, 11, 230.	2.9	31
20	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
21	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
22	Frequency-comb-referenced mid-IR sources for next-generation environmental sensors. Applied Physics B: Lasers and Optics, 2011, 102, 255-269.	2.2	29
23	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
24	Macroscopic oscillations between two weakly coupled Bose-Einstein condensates. European Physical Journal B, 2003, 31, 457-461.	1.5	25
25	Axion dark matter detection by laser induced fluorescence in rare-earth doped materials. Scientific Reports, 2017, 7, 15168.	3.3	25
26	Comb-assisted cavity ring-down spectroscopy of a buffer-gas-cooled molecular beam. Physical Chemistry Chemical Physics, 2016, 18, 16715-16720.	2.8	23
27	Axion dark matter detection by laser spectroscopy of ultracold molecular oxygen: a proposal. New Journal of Physics, 2015, 17, 113025.	2.9	21
28	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
29	Mid-infrared tunable two-dimensional Talbot array illuminator. Applied Physics Letters, 2009, 94, 121105.	3.3	20
30	A narrow-linewidth optical parametric oscillator for mid-infrared high-resolution spectroscopy. Molecular Physics, 2012, 110, 2103-2109.	1.7	19
31	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
32	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
33	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
34	Lamb-dip spectroscopy of buffer-gas-cooled molecules. Optica, 2019, 6, 436.	9.3	15
35	Time-Domain Atom Interferometry across the Threshold for Bose-Einstein Condensation. Physical Review Letters, 2001, 87, 170401.	7.8	14
36	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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37	Absolute frequency measurements of CHF_3 Doppler-free ro-vibrational transitions at 86â€‰â€‰Î¼m. Optics Letters, 2017, 42, 1911.	3.3	12
38	Spatial interference of coherent atomic waves by manipulation of the internal quantum state. Optics Letters, 2001, 26, 1039.	3.3	9
39	Thickness Measurement of Thin Transparent Plates With a Broad-Band Wavelength Scanning Interferometer. IEEE Photonics Technology Letters, 2004, 16, 1349-1351.	2.5	9
40	Frequency-comb-assisted precision laser spectroscopy of CHF3 around 8.6 Î¼m. Journal of Chemical Physics, 2015, 143, 234202.	3.0	9
41	LOW-TEMPERATURE SPECTROSCOPY OF THE¹²C₂H₂(Ï...₁+) Tj ETQq1 1 0.7843	4.5	9
42	Lamb-dip saturated-absorption cavity ring-down rovibrational molecular spectroscopy in the near-infrared. Photonics Research, 2022, 10, 1803.	7.0	9
43	Laser-Based Measurements for Time and Frequency Domain Applications. , 0, , .		8
44	Non-collinear quasi phase matching and annular profiles in difference frequency generation with focused Gaussian beams. Optics Express, 2008, 16, 8056.	3.4	6
45	Time-domain Ramsey interferometry with Boseâ€“Einstein condensates. Comptes Rendus Physique, 2001, 2, 605-612.	0.1	5
46	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
47	Absolute frequency stabilization of a QCL at 8.6â€‰â€‰Âµm by modulation transfer spectroscopy. Optics Letters, 2020, 45, 4948.	3.3	4
48	Simulation of Dicke-narrowed molecular spectra recorded by off-axis high-finesse optical cavities. Molecular Physics, 2010, 108, 749-755.	1.7	3
49	A narrow-linewidth, frequency-stabilized OPO for sub-Doppler molecular spectroscopy around 3 Î¼m. , 2012, , .		3
50	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
51	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
52	Damping and frequency shift in the oscillations of two colliding Bose-Einstein condensates. European Physical Journal D, 2001, 17, 345-349.	1.3	1
53	Ultra-high sensitivity frequency-comb-referenced multi-parametric sensors based on 1-D photonic components. , 2008, , .		1
54	Laser performance of Cr2+:CdSe crystal with anti-reflection coating. , 2017, , .		1

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55	Thickness measurement of thin transparent plates with a broadband wavelength-scanning interferometer. , 2004, 5458, 64.		0
56	High-sensitivity and high-resolution trace gas detection by means of a mW-power DFG spectrometer around 3.2 Î¼m. , 2004, , .		0
57	Probing sensitivity limits by comb-based spectroscopic techniques. , 2011, , .		0
58	Atomic and molecular spectroscopy with optical-frequency-comb-referenced IR coherent sources. EPJ Web of Conferences, 2013, 57, 02003.	0.3	0
59	Experimental Observation of Optical Frequency Combs in Doubly Resonant Second Harmonic Generation. , 2019, , .		0
60	A Coherent Fibre Link for Space Geodesy. , 2019, , .		0
61	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> level. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 248, 106963.	2.3	0
62	Domain-Engineered Ferroelectric Crystals for Nonlinear and Quantum Optics. Springer Series in Materials Science, 2014, , 285-311.	0.6	0
63	Frequency comb generation in a continuously pumped optical parametric oscillator. , 2018, , .		0
64	A Coherent Optical Fiber Link for Very Long Baseline Interferometry. , 2020, , .		0
65	A 1800-km optical fiber link for metrology, geodesy, and clock comparison. , 2020, , .		0