Paolo De Natale

List of Publications by Year
in descending order

368 papers	7,415 citations	50170 46 h-index	91712 69 g-index
379 all docs	379 docs citations	379 times ranked	4550 citing authors

#	Article	IF	Citations
1	Analog FM free-space optical communication based on a mid-infrared quantum cascade laser frequency comb. Optics Express, 2022, 30, 10217.	1.7	11
2	Terahertz Quantum Cascade Lasers as Enabling Quantum Technology. Advanced Quantum Technologies, 2022, 5, 2100082.	1.8	21
3	Precise radiocarbon determination in radioactive waste by a laser-based spectroscopic technique. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	6
4	Silicon-Based Multilayer Waveguides for Integrated Photonic Devices from the Near to Mid Infrared. Applied Sciences (Switzerland), 2021, 11, 1227.	1.3	0
5	Direct Observation of Terahertz Frequency Comb Generation in Difference-Frequency Quantum Cascade Lasers. Applied Sciences (Switzerland), 2021, 11, 1416.	1.3	14
6	Controlling and Phaseâ€Locking a THz Quantum Cascade Laser Frequency Comb by Small Optical Frequency Tuning. Laser and Photonics Reviews, 2021, 15, 2000417.	4.4	11
7	Mid-infrared homodyne balanced detector for quantum light characterization. Optics Express, 2021, 29, 14536.	1.7	17
8	Light pressure in droplet micro-resonators excited by free-space scattering. Optics Letters, 2021, 46, 3111.	1.7	6
9	Quantum Simulating the Electron Transport in Quantum Cascade Laser Structures. Advanced Quantum Technologies, 2021, 4, 2100044.	1.8	4
10	Biogenic Fraction Determination in Fuel Blends by Laserâ€Based ¹⁴CO₂ Detection. Advanced Photonics Research, 2021, 2, 2000069.	1.7	16
11	Infrared Comb Spectroscopy of Buffer-Gas-Cooled Molecules: Toward Absolute Frequency Metrology of Cold Acetylene. International Journal of Molecular Sciences, 2021, 22, 250.	1.8	4
12	Mid-infrared balanced detector for characterization of quantum light. , 2021, , .		0
13	Theoretical study of the Fourier-transform analysis of heterodyne comb-emission measurements. Physical Review A, 2021, 104, .	1.0	3
14	Quantum cascade laser based hybrid dual comb spectrometer. Communications Physics, 2020, 3, .	2.0	40
15	A self-operating broadband spectrometer on a droplet. Nature Communications, 2020, 11, 2263.	5.8	13
16	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></m level. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 248, 106963.	1.1	0
17	Unveiling quantum-limited operation of interband cascade lasers. APL Photonics, 2020, 5, .	3.0	16
18	Optical Frequency Combs in Quadratically Nonlinear Resonators. Micromachines, 2020, 11, 230.	1.4	31

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19	A QCL-based metrological-grade source at 6 Î¼m. Applied Physics B: Lasers and Optics, 2020, 126, 1.	1.1	0
20	Common-clock very long baseline interferometry using a coherent optical fiber link. Optica, 2020, 7, 1031.	4.8	46
21	Toward new frontiers for terahertz quantum cascade laser frequency combs. Nanophotonics, 2020, 10, 187-194.	2.9	19
22	Quantum simulating electron transport in quantum cascade laser structures. , 2020, , .		0
23	Stabilizing chip-scale combs and infrared sources: a metrological view on the molecular world. , 2020, , .		0
24	Frequency noise of Interband Cascade Lasers. , 2020, , .		0
25	A 1800-km optical fiber link for metrology, geodesy, and clock comparison. , 2020, , .		0
26	Absolute frequency stabilization of a QCL at 8.6â€‰â€‰Âµm by modulation transfer spectroscopy. Optics Letters, 2020, 45, 4948.	1.7	4
27	QCL-based frequency metrology from the mid-infrared to the THz range: a review. Nanophotonics, 2019, 8, 181-204.	2.9	49
28	Fully phase-stabilized quantum cascade laser frequency comb. Nature Communications, 2019, 10, 2938.	5.8	69
29	Retrieval of phase relation and emission profile of quantum cascade laser frequency combs. Nature Photonics, 2019, 13, 562-568.	15.6	76
30	Liquid Droplet Microresonators. Sensors, 2019, 19, 473.	2.1	18
31	Bow-Tie Cavity for Terahertz Radiation. Photonics, 2019, 6, 1.	0.9	24
32	Cavity Opto-Mechanics in Liquid Droplets. , 2019, , .		0
33	Experimental Observation of Optical Frequency Combs in Doubly Resonant Second Harmonic Generation. , 2019, , .		0
34	Approaching the transit time limit for high-precision spectroscopy on metastable CO around 6 Î¼m. Physical Chemistry Chemical Physics, 2019, 21, 24506-24511.	1.3	1
35	High Dynamic Range, Heterogeneous, Terahertz Quantum Cascade Lasers Featuring Thermally Tunable Frequency Comb Operation over a Broad Current Range. ACS Photonics, 2019, 6, 73-78.	3.2	41
36	High-precision molecular spectroscopy in the mid-infrared using quantum cascade lasers. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	38

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37	Lamb-dip spectroscopy of buffer-gas-cooled molecules. Optica, 2019, 6, 436.	4.8	15
38	Frequency noise characterization of interband cascade lasers. , 2019, , .		1
39	THz frequency metrology. , 2019, , .		0
40	Stimulated Brillouin Cavity Optomechanics in Liquid Droplets. Physical Review Letters, 2018, 120, 073902.	2.9	32
41	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.	1.1	2
42	Waveguided Approach for Difference Frequency Generation of Broadly-Tunable Continuous-Wave Terahertz Radiation. Applied Sciences (Switzerland), 2018, 8, 2374.	1.3	18
43	Room-Temperature Continuous-Wave Frequency-Referenced Spectrometer upÂtoÂ7.5ÂTHz. Physical Review Applied, 2018, 10, .	1.5	12
44	Modulation Instability Induced Frequency Comb Generation in a Continuously Pumped Optical Parametric Oscillator. Physical Review Letters, 2018, 121, 093903.	2.9	89
45	Versatile mid-infrared frequency-comb referenced sub-Doppler spectrometer. APL Photonics, 2018, 3, .	3.0	6
46	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.	1.1	2
47	Resonant enhancement of plasmonic nanostructured fiber optic sensors. Sensors and Actuators B: Chemical, 2018, 273, 1587-1592.	4.0	16
48	Modeling and measuring the quality factor of whispering gallery mode resonators. Applied Physics B: Lasers and Optics, 2018, 124, 1.	1.1	13
49	Opto-mechanical oscillator in a nanoliter droplet. Optics Letters, 2018, 43, 3473.	1.7	9
50	Surface-plasmon optical-heterodyne clock biosensor. Sensors and Actuators B: Chemical, 2018, 273, 336-341.	4.0	12
51	Direct Measurement of the Phase Coherence of Comb Sources. , 2018, , .		0
52	Controlling QCLs for frequency metrology from the infrared to the THz range. , 2018, , .		0
53	Super-resonant coherent absorption sensing. , 2018, , .		0
54	Whispering gallery mode resonators for mid-IR quantum and interband cascade laser analysis and control. , 2018, , .		0

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55	Metrological-grade tunable coherent source in the mid-infrared for molecular precision spectroscopy. , 2018, , .		0
56	Surface scattering and opto-mechanical effects in droplet microresonators. , 2018, , .		0
57	Frequency comb generation in a continuously pumped optical parametric oscillator. , 2018, , .		0
58	Narrow-linewidth ultra-broadband terahertz sources based on difference-frequency generation in mid-infrared quantum cascade lasers. , 2017, , .		2
59	Mid-infrared tunable, narrow-linewidth difference-frequency laser based on orientation-patterned gallium phosphide. Journal of Physics: Conference Series, 2017, 793, 012012.	0.3	0
60	Whispering gallery mode stabilization of quantum cascade lasers for infrared sensing and spectroscopy. , 2017, , .		5
61	Fundamental limits in high-Q droplet microresonators. Scientific Reports, 2017, 7, 41997.	1.6	26
62	Continuous-wave difference frequency generation in the mid-infrared with orientation-patterned gallium phosphide (OP-GaP) crystals. , 2017, , .		0
63	Measuring molecular frequencies in the 1â€“10â€‰Î¼m range at 11-digits accuracy. Scientific Reports, 2017, 7, 12780.	1.6	22
64	Spectral purity and tunability of terahertz quantum cascade laser sources based on intracavity difference-frequency generation. Science Advances, 2017, 3, e1603317.	4.7	33
65	Terahertz Frequency Metrology for Spectroscopic Applications: a Review. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1289-1315.	1.2	46
66	Radiocarbon measurements with mid-infrared SCAR spectroscopy. , 2017, , .		0
67	Towards the full frequency stabilization of quantum cascade laser frequency combs. , 2017, , .		1
68	Broadband CW nonlinear generation for metrological grade terahertz spectroscopy. , 2017, , .		0
69	Shaping the spectrum of a down-converted mid-infrared frequency comb. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2287.	0.9	8
70	Absolute frequency measurements of CHF_3 Doppler-free ro-vibrational transitions at 86â€‰â€‰Î¼m. Optics Letters, 2017, 42, 1911.	1.7	12
71	Probing and controlling the comb features of a THz QCL. , 2017, , .		0
72	Crystalline and liquid whispering gallery mode resonators for laser stabilization and sensing (Invited). , 2017, , .		0

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73	Frequency comb generation in continuously pumped optical parametric oscillator. , 2017, , .		0
74	Saturated-Absorption Cavity Ring-Down Spectroscopy for Radiocarbon Measurements. , 2017, , .		0
75	Comb-referenced ultra-high sensitivity spectroscopic molecular detection by compact non-linear sources. , 2017, , .		0
76	Tunable Microcavity-Stabilized Quantum Cascade Laser for Mid-IR High-Resolution Spectroscopy and Sensing. Sensors, 2016, 16, 238.	2.1	19
77	Difference frequency generation in the mid-infrared with orientation-patterned gallium phosphide crystals. Optics Letters, 2016, 41, 5114.	1.7	32
78	Frequency stability characterization of a quantum cascade laser frequency comb. Laser and Photonics Reviews, 2016, 10, 623-630.	4.4	39
79	Direct generation of optical frequency combs in Ï‡⁽²⁾ nonlinear cavities. Nanophotonics, 2016, 5, 316-331.	2.9	44
80	Spectroscopic detection of radiocarbon dioxide at parts-per-quadrillion sensitivity. Optica, 2016, 3, 385.	4.8	104
81	Microcavityâ€Stabilized Quantum Cascade Laser. Laser and Photonics Reviews, 2016, 10, 153-157.	4.4	39
82	Super-Resonant Intracavity Coherent Absorption. Scientific Reports, 2016, 6, 28947.	1.6	10
83	Comb-assisted cavity ring-down spectroscopy of a buffer-gas-cooled molecular beam. Physical Chemistry Chemical Physics, 2016, 18, 16715-16720.	1.3	23
84	Fiber Bragg Grating Sensor for Electric Field Measurement in the End Windings of High-Voltage Electric Machines. IEEE Transactions on Industrial Electronics, 2016, 63, 2796-2802.	5.2	51
85	Laser-frequency locking to a whispering-gallery-mode cavity by spatial interference of scattered light. Optics Letters, 2016, 41, 650.	1.7	14
86	Whispering-gallery mode resonator sensors based on liquid droplets. Proceedings of SPIE, 2016, , .	0.8	1
87	QCL-Based Real-Time Terahertz Digital Holography. , 2016, , .		0
88	Spectroscopic Detection of Radiocarbon Dioxide at Parts-per-quadrillion Sensitivity. , 2016, , .		0
89	Measuring the frequency stability of a quantum cascade laser frequency comb. , 2016, , .		0
90	Microcavity-Stabilized Quantum Cascade Laser. , 2016, , .		0

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91	Frequency comb generation in continuously-pumped quadratic nonlinear media. , 2015, , .		0
92	Frequency comb generation in quadratic nonlinear media. Physical Review A, 2015, 91, .	1.0	84
93	Testing the validity of Bose-Einstein statistics in molecules. Physical Review A, 2015, 92, .	1.0	16
94	Real-time terahertz digital holography with a quantum cascade laser. Scientific Reports, 2015, 5, 13566.	1.6	85
95	Frequency-comb-assisted precision laser spectroscopy of CHF3 around 8.6 Î¼m. Journal of Chemical Physics, 2015, 143, 234202.	1.2	9
96	QCL-based Metrological-grade THz Spectroscopy Tools. , 2015, , .		0
97	Quantum cascade laser THz metrology. Proceedings of SPIE, 2015, , .	0.8	0
98	Sub-kilohertz linewidth narrowing of a mid-infrared optical parametric oscillator idler frequency by direct cavity stabilization. Optics Letters, 2015, 40, 4743.	1.7	17
99	Spectrally selective investigation on optical losses in multimode fibers with loop resonators. , 2015, , .		0
100	High-Q resonant cavities for terahertz quantum cascade lasers. Optics Express, 2015, 23, 3751.	1.7	13
101	Mapping terahertz waves. Nature Photonics, 2015, 9, 147-148.	15.6	5
102	Ionizing Radiation Detectors Based on Ge-Doped Optical Fibers Inserted in Resonant Cavities. Sensors, 2015, 15, 4242-4252.	2.1	8
103	Tracing part-per-billion line shifts with direct-frequency-comb Vernier spectroscopy. Physical Review A, 2015, 91, .	1.0	18
104	A quartz-enhanced photoacoustic sensor for H2S trace-gas detection at 2.6ÂÎ¼m. Applied Physics B: Lasers and Optics, 2015, 119, 21-27.	1.1	37
105	Mid-IR and terahertz digital holography based on quantum cascade lasers. , 2015, , .		0
106	Quartz-enhanced photoacoustic sensors for H2S trace gas detection. , 2015, , .		1
107	Quantum cascade lasers: 20 years of challenges. Optics Express, 2015, 23, 5167.	1.7	412
108	Saturated absorption in a rotational molecular transition at 2.5 THz using a quantum cascade laser. Applied Physics Letters, 2015, 106, .	1.5	17

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109	Theory of saturated-absorption cavity ring-down: radiocarbon dioxide detection, a case study. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 2223.	0.9	28
110	LOW-TEMPERATURE SPECTROSCOPY OF THE¹²C₂H₂(Ï...₁+) Tj ETQq0 0 0 rgBT /Ov	1.6	9
111	High finesse optical cavity coupled with a quartz-enhanced photoacoustic spectroscopic sensor. Analyst, The, 2015, 140, 736-743.	1.7	41
112	Measuring part-per-billion line shifts and frequencies with direct-frequency-comb Vernier spectroscopy. , 2015, , .		0
113	Cavity-enhanced surface-plasmon resonance sensing: modeling and performance. Measurement Science and Technology, 2014, 25, 015205.	1.4	2
114	Towards Doppler-Free QCL-based Metrological THz Spectroscopy. , 2014, , .		0
115	Mid-infrared digital holography and holographic interferometry with a tunable quantum cascade laser. Optics Letters, 2014, 39, 4843.	1.7	20
116	High-Coherence Mid-Infrared Frequency Comb Generation and Applications. , 2014, , .		0
117	Intracavity Quartz-Enhanced Photoacoustic Sensor for Mid-Infrared Trace-Gas Detection. , 2014, , .		0
118	THz technologies for sensing and non-destructive testing. , 2014, , .		0
119	Widely-tunable mid-infrared fiber-coupled quartz-enhanced photoacoustic sensor for environmental monitoring. Optics Express, 2014, 22, 28222.	1.7	93
120	Direct Sensing in Liquids Using Whisperingâ€Galleryâ€Mode Droplet Resonators. Advanced Optical Materials, 2014, 2, 1155-1159.	3.6	70
121	Frequency-Comb-Assisted Terahertz Quantum Cascade Laser Spectroscopy. Physical Review X, 2014, 4, .	2.8	52
122	Saturated-Absorption Cavity Ring-Down (SCAR) for High-Sensitivity and High-Resolution Molecular Spectroscopy in the Mid IR. Springer Series in Optical Sciences, 2014, , 143-162.	0.5	1
123	Radiation dosimetry with fiber Bragg gratings. , 2014, , .		4
124	Sensitive strain measurements with a fiber Bragg-grating ring resonator. Proceedings of SPIE, 2014, , .	0.8	0
125	Detection of a 2.8â€‰THz quantum cascade laser with a semiconductor nanowire field-effect transistor coupled to a bow-tie antenna. Applied Physics Letters, 2014, 104, .	1.5	21
126	High-sensitivity ring-down evanescent-wave sensing in fiber resonators. Optics Letters, 2014, 39, 5725.	1.7	5

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127	Mid-infrared frequency comb for broadband high precision and sensitivity molecular spectroscopy. Optics Letters, 2014, 39, 5050.	1.7	38
128	Intracavity quartz-enhanced photoacoustic sensor. Applied Physics Letters, 2014, 104, .	1.5	115
129	Quantum cascade lasers: a versatile source for precise measurements in the mid/far-infrared range. Measurement Science and Technology, 2014, 25, 012001.	1.4	32
130	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.	0.4	15
131	Fiber-Optic Resonators for Strain-Acoustic Sensing and Chemical Spectroscopy. Springer Series in Optical Sciences, 2014, , 463-484.	0.5	2
132	Novel Infrared Sources And Spectroscopic Techniques For Cutting Edge Environmental Metrology. , 2014, , .		0
133	Domain-Engineered Ferroelectric Crystals for Nonlinear and Quantum Optics. Springer Series in Materials Science, 2014, , 285-311.	0.4	0
134	Precise measurements of molecular lineshapes with direct comb spectroscopy. , 2014, , .		0
135	Sub-kHz-Linewidth Mid-infrared Optical Parametric Oscillator. , 2014, , .		0
136	Detection of a 2.8 THz quantum cascade laser with a semiconductor nanowire FET. , 2013, , .		0
137	Optical cavity-enhanced surface plasmon resonance refractive index sensing. , 2013, , .		0
138	Quantum-limited linewidth in THz quantum cascade lasers. Proceedings of SPIE, 2013, , .	0.8	0
139	External ring-cavity quantum cascade lasers. Applied Physics Letters, 2013, 102, .	1.5	21
140	Detecting ionizing radiation with optical fibers down to biomedical doses. Applied Physics Letters, 2013, 103, .	1.5	19
141	Investigating the resonance spectrum of optical frequency combs in fiber-optic cavities. Optics Express, 2013, 21, 13785.	1.7	2
142	Phase noise analysis of a 10 Watt Yb-doped fibre amplifier seeded by a 1-Hz-linewidth laser. Optics Express, 2013, 21, 14618.	1.7	18
143	High-coherence mid-infrared frequency comb. Optics Express, 2013, 21, 28877.	1.7	47
144	Localized strain sensing with fiber Bragg-grating ring cavities. Optics Express, 2013, 21, 29435.	1.7	46

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145	Two-tone frequency-modulation spectroscopy in off-axis cavity. Optics Letters, 2013, 38, 4625.	1.7	5
146	High-speed multi-THz-range mode-hop-free tunable mid-IR laser spectrometer. Optics Letters, 2013, 38, 1972.	1.7	19
147	Evanescent-wave comb spectroscopy of liquids with strongly dispersive optical fiber cavities. Applied Physics Letters, 2013, 102, 201116.	1.5	14
148	Surface plasmon resonance optical cavity enhanced refractive index sensing. Optics Letters, 2013, 38, 1951.	1.7	34
149	THz QCL-Based Cryogen-Free Spectrometer for in Situ Trace Gas Sensing. Sensors, 2013, 13, 3331-3340.	2.1	49
150	Cavity and quartz enhanced photo-acoustic mid-IR sensor. , 2013, , .		1
151	Comb-assisted subkilohertz linewidth quantum cascade laser for high-precision mid-infrared spectroscopy. Applied Physics Letters, 2013, 102, .	1.5	61
152	LIFT-the Italian link for time and frequency. , 2013, , .		2
153	THz-comb-assisted molecular spectroscopy. , 2013, , .		0
154	THz spectroscopy with an absolute frequency scale by a QCL phase-locked to a THz frequency comb. , 2013, , .		2
155	Subkilohertz-narrowed, frequency/phase-locked mid-IR quantum cascade lasers for high-precision molecular spectroscopy. , 2013, , .		0
156	Absolute frequency measurements of CO₂ transitions at 4.3 Î¼m with a comb-referenced quantum cascade laser. Molecular Physics, 2013, 111, 2041-2045.	0.8	24
157	Optical Detection of Radiocarbon Dioxide: First Results and AMS Intercomparison. Radiocarbon, 2013, 55, 213-223.	0.8	30
158	Atomic and molecular spectroscopy with optical-frequency-comb-referenced IR coherent sources. EPJ Web of Conferences, 2013, 57, 02003.	0.1	0
159	Optical Detection of Radiocarbon Dioxide: First Results and AMS Intercomparison. Radiocarbon, 2013, 55, .	0.8	8
160	Frequency-comb assisted Laser Sources from the Mid-IR to the THz Range. , 2013, , .		0
161	High-Speed, Multi-THz-Range Mode-Hop-Free Tunable Mid-IR OPO Spectrometer. , 2013, , .		0
162	Broadband Fiber Dispersion Spectroscopy of Liquids with Optical Frequency Combs. , 2013, , .		0

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163	High-Resolution Spectroscopy of the Methane Î½3 Band in the 3.3 Âµm Range using Widely Tunable Single-Frequency Optical Parametric Oscillators. , 2013, , .		0
164	Subkilohertz-narrowed, Frequency/phase-locked Mid-IR Quantum Cascade Lasers for High-precision Molecular Spectroscopy. , 2013, , .		0
165	THz Spectroscopy with an Absolute Frequency Scale by a QCL Phase-locked to a THz Frequency Comb. , 2013, , .		0
166	A narrow-linewidth optical parametric oscillator for mid-infrared high-resolution spectroscopy. Molecular Physics, 2012, 110, 2103-2109.	0.8	19
167	A narrow-linewidth, frequency-stabilized OPO for sub-Doppler molecular spectroscopy around 3 Î¼m. , 2012, , .		3
168	Direct link of a mid-infrared QCL to a frequency comb by optical injection. Optics Letters, 2012, 37, 1011.	1.7	52
169	Frequency-comb-referenced singly-resonant OPO for sub-Doppler spectroscopy. Optics Express, 2012, 20, 9178.	1.7	41
170	Subkilohertz linewidth room-temperature mid-infrared quantum cascade laser using a molecular sub-Doppler reference. Optics Letters, 2012, 37, 4811.	1.7	64
171	Frequency Metrology of Helium around 1083Ânm and Determination of the Nuclear Charge Radius. Physical Review Letters, 2012, 108, 143001.	2.9	80
172	External ring-cavity quantum cascade lasers for mode-locking and atmospheric sensing. , 2012, , .		0
173	Direct link of a mid-infrared quantum cascade laser to a frequency comb by optical injection. , 2012, , .		0
174	Sensitivity enhancement of off-axis ICOS using wavelength modulation. Applied Physics B: Lasers and Optics, 2012, 108, 353-359.	1.1	24
175	Phase-locking a THz quantum cascade laser to a THz comb through an all-optical beating. , 2012, , .		0
176	The intrinsic linewidth of a THz quantum cascade laser. , 2012, , .		0
177	Response to Comment on â€œProbing the Ultimate Limit of Fiber-Optic Strain Sensingâ€• Science, 2012, 335, 286-286.	6.0	9
178	Phase-locking to a free-space terahertz comb for metrological-grade terahertz lasers. Nature Communications, 2012, 3, 1040.	5.8	105
179	All-Optical Radiocarbon Dating. Optics and Photonics News, 2012, 23, 52.	0.4	5
180	Quantum-limited frequency fluctuations in a terahertz laser. Nature Photonics, 2012, 6, 525-528.	15.6	146

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181	The intrinsic linewidth of THz quantum cascade lasers. , 2012, , .		0
182	Molecular Gas Sensing Below Parts Per Trillion: Radiocarbon-Dioxide Optical Detection. Physical Review Letters, 2011, 107, 270802.	2.9	162
183	Optical frequency comb assisted laser system for multiplex precision spectroscopy. Optics Express, 2011, 19, 3155.	1.7	12
184	Measuring frequency noise and intrinsic linewidth of a room-temperature DFB quantum cascade laser. Optics Express, 2011, 19, 17996.	1.7	86
185	Probing sensitivity limits by comb-based spectroscopic techniques. , 2011, , .		0
186	Narrow linewidth quantum cascade lasers as ultra-sensitive probes of molecules. , 2011, , .		2
187	Optical-frequency-comb based interrogation of fiber resonators. Proceedings of SPIE, 2011, , .	0.8	0
188	Frequency-Noise Dynamics of Mid-Infrared Quantum Cascade Lasers. IEEE Journal of Quantum Electronics, 2011, 47, 984-988.	1.0	40
189	Frequency-comb-referenced mid-IR sources for next-generation environmental sensors. Applied Physics B: Lasers and Optics, 2011, 102, 255-269.	1.1	29
190	22nd Colloquium on High Resolution Molecular Spectroscopy: Special Issue dedicated to Gianfranco Di Lonardo. Molecular Physics, 2011, 109, 2069-2070.	0.8	3
191	The ν₃band of¹⁴C¹⁶O₂molecule measured by optical-frequency-comb-assisted cavity ring-down spectroscopy. Molecular Physics, 2011, 109, 2267-2272.	0.8	36
192	Optical detection of molecular species at sub-ppt concentration levels. , 2011, , .		1
193	Twenty-first Colloquium on High-Resolution Molecular Spectroscopy. Molecular Physics, 2010, 108, 675-676.	0.8	3
194	Quantum cascade lasers for high-resolution spectroscopy. Optical Engineering, 2010, 49, 111122.	0.5	15
195	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.	1.2	30
196	Observing the Intrinsic Linewidth of a Quantum-Cascade Laser: Beyond the Schawlow-Townes Limit. Physical Review Letters, 2010, 104, 083904.	2.9	147
197	Simulation of Dicke-narrowed molecular spectra recorded by off-axis high-finesse optical cavities. Molecular Physics, 2010, 108, 749-755.	0.8	3
198	Saturated-Absorption Cavity Ring-Down Spectroscopy. , 2010, , .		0

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199	Saturated-Absorption Cavity Ring-Down Spectroscopy. Physical Review Letters, 2010, 104, 110801.	2.9	129
200	Optical Fiber Sensing Based on Reflection Laser Spectroscopy. Sensors, 2010, 10, 1823-1845.	2.1	41
201	Optical fiber three-axis accelerometer based on lasers locked to Ï€ phase-shifted Bragg gratings. Measurement Science and Technology, 2010, 21, 094010.	1.4	21
202	Probing the Ultimate Limit of Fiber-Optic Strain Sensing. Science, 2010, 330, 1081-1084.	6.0	202
203	Cavity-enhanced generation of 6 W cw second-harmonic power at 532 nm in periodically-poled MgO:LiTaO_3. Optics Express, 2010, 18, 10985.	1.7	24
204	Ti:sapphire laser intracavity difference-frequency generation of 30 mW cw radiation around 45Î¼m. Optics Letters, 2010, 35, 3616.	1.7	47
205	Quiet Cascade: Measuring QCL Intrinsic Linewidth. Optics and Photonics News, 2010, 21, 32.	0.4	2
206	Towards Metrological Grade Mid-IR Quantum Cascade Laser Sources. , 2010, , .		0
207	Mid-infrared tunable two-dimensional Talbot array illuminator. Applied Physics Letters, 2009, 94, 121105.	1.5	20
208	An ultra-stable, widely tunable and Cs-traceable mid-IR coherent source. , 2009, , .		0
209	Comb-referenced spectroscopy with quantum cascade lasers. , 2009, , .		0
210	Optical comb generators for laser frequency measurement. Measurement Science and Technology, 2009, 20, 052001.	1.4	60
211	Quantum physics exploring gravity in the outer solar system: the SAGAS project. Experimental Astronomy, 2009, 23, 651-687.	1.6	101
212	Matter wave explorer of gravity (MWXG). Experimental Astronomy, 2009, 23, 611-649.	1.6	30
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