

Nathalie Picqué

Publications in peer-reviewed journals

Submitted for publication:

76. K. Van Gasse, Z. Chen, E. Vicentini, J. Huh, S. Poelman, Z. Wang, G. Roelkens, T.W. Hänsch, B. Kuyken, N. Picqué, An on-chip III-V-semiconductor-on-silicon laser frequency comb for gas-phase molecular spectroscopy in real-time, submitted for publication (2020)
75. Z. Chen, T.W. Hänsch, N. Picqué, Up-conversion mid-infrared dual-comb spectroscopy, submitted for publication, arXiv:2003.06930 (2020).
74. A. Shams-Ansari, M. Yu, Z. Chen, C. Reimer, M. Zhang, N. Picqué, M. Lončar, An integrated lithium-niobate electro-optic platform for spectrally tailored dual-comb spectroscopy, submitted for publication, preprint at arXiv:2003.04533 (2020).
73. K. Fritsch, J. Brons, M. Iandulskii, K.F. Mak, Z. Chen, N. Picqué, O. Pronin, Dual-comb thin-disk oscillator, submitted for publication, arXiv:2004.10303 (2020).
72. N. Picqué, T.W. Hänsch, Single-photon interferometry and spectroscopy with two laser frequency combs, submitted for publication, arXiv:1906.03706 (2019).

Published:

71. A. Shams-Ansari, P. Latawiec, Y. Okawachi, V. Venkataraman, M. Yu, B. Desiatov, H. Atikian, G.L. Harris, N. Picqué, A.L. Gaeta, M. Loncar, Supercontinuum generation in angle-etched diamond waveguides, *Optics Letters* **44**, 4056-4059 (2019).
70. N. Picqué, T.W. Hänsch, Frequency comb spectroscopy, *Nature Photonics* **13**, 146-157 (2019).
69. N. Picqué, T.W. Hänsch, Mid-infrared spectroscopic sensing, *Optics & Photonics News* **19**, 26-33, issue of June (2019).
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63. M. Yu, Y. Okawachi, A.G. Griffith, N. Picqué, M. Lipson, A.L. Gaeta, Silicon-chip-based mid-infrared dual-comb spectroscopy, *Nature Communications* **9**, 1869 (2018).

62. S.A. Meek, A. Hipke, G. Guelachvili, T.W. Hänsch, N. Picqué, Doppler-free Fourier transform spectroscopy, *Optics Letters* **43**, 162-165 (2018).
61. A. Parriaux, M. Conforti, A. Bendahmane, J. Fatome, C. Finot, S. Trillo, N. Picqué, G. Millot, Spectral broadening of picosecond pulses by dispersive shock waves in optical fibers, *Optics Letters* **42**, 3044-3047 (2017).
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58. K.J. Mohler, B.J. Bohn, M. Yan, G. Mélen, T.W. Hänsch, N. Picqué, Dual-Comb Coherent Raman Spectroscopy with Lasers of 1-GHz Pulse Repetition Frequency, *Optics Letters* **42**, 318-321 (2017).
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