

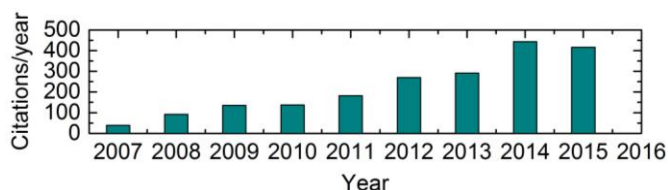
PUBLICATIONS

1. P. Del'Haye, A. Coillet, T. Fortier, K. Beha, D. Cole, K. Yang, H. Lee, K. Vahala, S. Papp, S. Diddams
“Phase Coherent Link of an Atomic Clock to a Self-Referenced Microresonator Frequency Comb”
(in preparation)
2. D.T. Reid, C.M. Heyl, R.R. Thomson, R. Trebino, H. Fielding, Z. Zhang, P. Del'Haye, T. Suedmeyer, G. Mourou, T. Tajima, D. Faccio, F. Harren, G. Cerullo
“Roadmap on Ultrafast Optics”
(in preparation)
3. K. Beha, D. Cole, P. Del'Haye, A. Coillet, S.A. Diddams, S.B. Papp
“Self-referencing a continuous-wave laser with electro-optic modulation”
submitted, (arXiv:1507.06344)
4. K. Yang, K. Beha, D. Cole, X. Yi, P. Del'Haye, H. Lee, J. Li, D. Oh, S.A. Diddams, S.B. Papp, K.J. Vahala
“Broadband dispersion engineered microresonator on-a-chip”
submitted, (arXiv:1506.07157)
5. A. Pasquazi, M. Peccianti, L. Razzari, D.J. Moss, S. Coen, M. Erkintalo, Y.K. Chembo, T. Hansson, S. Wabnitz, P. Del'Haye, X. Xue, A.M. Weiner, R. Morandotti
“Micro-Combs: a Novel Generation of Optical Sources”
(in preparation)
6. P. Del'Haye, A. Coillet, W. Loh, K. Beha, S.B. Papp, S.A. Diddams
“Phase Steps and Resonator Detuning Measurements in Microresonator Frequency Combs”
Nature Communications, **6**, 5668 (Jan 2015)
7. W. Loh, P. Del'Haye, S.B. Papp, S.A. Diddams
“Phase and coherence of optical microresonator frequency combs”
Physical Review A **89**, 053810 (May 2014)
8. S.B. Papp, K. Beha, P. Del'Haye, F. Quinlan, H. Lee, K.J. Vahala, S.A. Diddams
“Microresonator frequency comb optical clock”,
Optica **1**, 10-14 (July 2014)
9. P. Del'Haye, K. Beha, S.B. Papp, S.A. Diddams
“Self-Injection Locking and Phase-Locked States in Microresonator-Based Optical Frequency Combs”
Physical Review Letters **112**, 043905 (Jan. 2014)
10. S.B. Papp, P. Del'Haye, S.A. Diddams
“Parametric seeding of a microresonator optical frequency comb”,
Optics Express **21** 17615-17624 (July 2013)
11. P. Del'Haye, S.A. Diddams, S.B. Papp
“Laser-Machined Ultra-High-Q Microrod Resonators for Nonlinear Optics”,
Appl. Phys. Lett. **102**, 221119 (June 2013)
12. C. Wang, T. Herr, P. Del'Haye, A. Schliesser, R. Holzwarth, T.W. Hänsch, N. Picqué and T.J. Kippenberg
“Mid-Infrared Optical Frequency Combs at 2.5 μm based on Crystalline Microresonators”,
Nature Communications **4**, 1345 (Jan. 2013)
13. P. Del'Haye, S.B. Papp, S.A. Diddams
“Hybrid Electro-Optically Modulated Microcombs”,
Physical Review Letters **109**, 263901 (Dec. 2012)
14. S.B. Papp, P. Del'Haye, S.A. Diddams
“Mechanical Control of a Microrod-Resonator Optical Frequency Comb”,
Physical Review X **3**, 031003 (July 2013)
15. P. Del'Haye, R. Holzwarth and T.J. Kippenberg
“Large Bandwidth from a tiny Device”,
SPIE Newsroom, 10.1117/2.1201110.003910 (Nov. 2011)
16. P. Del'Haye, T. Herr, E. Gavartin, R. Holzwarth and T.J. Kippenberg
“Octave Spanning Frequency Comb on a Chip”,
Physical Review Letters **107**, 063901 (Aug. 2011)

17. P. Del'Haye, O. Arcizet, M.L. Gorodetsky, R. Holzwarth and T.J. Kippenberg
“Frequency comb assisted diode laser spectroscopy for measurement of microcavity dispersion”,
Nature Photonics **3**, 529-533 (Aug. 2009)
18. P. Del'Haye, O. Arcizet, A. Schliesser, R. Holzwarth and T.J. Kippenberg
“A chip-scale microwave repetition rate frequency comb”,
Proceedings of SPIE **7222**, 722209 (Jan. 2009)
19. P. Del'Haye, O. Arcizet, A. Schliesser, R. Holzwarth and T.J. Kippenberg
“Full stabilization of a microresonator-based optical frequency comb”,
Physical Review Letters **101**, 053903 (Aug. 2008)
20. P. Del'Haye, A. Schliesser, O. Arcizet, T. Wilken, R. Holzwarth and T.J. Kippenberg
“Optical frequency comb generation from a monolithic microresonator”,
Nature **450**, 1214-1217 (Dec. 2007)
21. R. Ma, A. Schliesser, P. Del'Haye, A. Dabirian, G. Anetsberger and T.J. Kippenberg
“Radiation-pressure-driven vibrational modes in ultrahigh-Q silica microspheres”,
Optics Letters **32**, 2200-2202 (Aug. 2007)
22. A. Schliesser, P. Del'Haye, N. Nooshi, K.J. Vahala and T.J. Kippenberg
“Radiation pressure cooling of a micromechanical oscillator using dynamical backaction”,
Physical Review Letters **97**, 243905 (Dec. 2006)

CITATION REPORT (GOOGLE SCHOLAR)

Citation indices	All	Since 2010
Citations	2023	1743
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i10-index	17	17



BOOKS/BOOK CHAPTER

- **“Optical frequency comb in monolithic microresonators”** 2011
 Dissertation, Publisher: Dr. Hut Verlag, ISBN 978-3868539318
- **“Optical frequency comb generation”** in *“Practical Applications of Microresonators in Optics and Photonics”*, Editor Andrey Matsko, Taylor & Francis Group, ISBN 978-1420065787 2009

PATENTS/PATENT APPLICATIONS

- *“Laser Machining and Mechanical Control of Optical Resonators”* 2012
 US Pat. App. No. 61/698,741
- *“Method and apparatus for frequency comb assisted laser spectroscopy”* 2009
 US Pat. App. No. 61/217,220, provisional patent application
- *“Method and apparatus for optical frequency comb generation using a monolithic micro-resonator”* 2007
 EU Pat. App. No. 07009067.5, US Patent 7982944, Japan Patent 2009-020492

CONFERENCES, TALKS AND SEMINARS

- **SPIE Photonics Europe Conference**, Brussels, Belgium upcoming April 2016
 “f-2f Self-Referenced Microresonator Frequency Comb”
 P. Del'Haye (invited talk)
- **Winter College on Optics**, International Centre for Theoretical Physics, Italy upcoming Feb. 2016
 “Microresonator-Based Optical Frequency Combs”
 P. Del'Haye (winter school)
- **University of Oxford**, Oxford, UK Oct. 2015
 “Microresonator-Based Optical Frequency Combs and their Applications”
 P. Del'Haye

- **CLEO Europe**, Munich, Germany June 2015
 “Coherent Broadening of a Microresonator Frequency Comb to an Optical Octave for f-2f Self-Referencing”
P. Del'Haye, A. Coillet, T. Fortier, K. Beha, D. Cole, H. Lee, K. Vahala, S. Papp, and S. Diddams
- **Advanced Solid State Lasers (ASSL)**, Shanghai, China Nov 2014
 “Stable Mode Locking of Micro Resonator Frequency Combs” (*invited talk*)
P. Del'Haye, A. Coillet, W. Loh, K. Beha, S.B. Papp, and S.A. Diddams
- **National Physical Laboratory (NPL)**, Teddington, UK Oct. 2014
 “Microresonator-Based Optical Frequency Combs and their Applications”
P. Del'Haye
- **European Frequency and Time Forum (EFTF)**, Neuchatel, Switzerland June 2014
 “Phase Measurements of Optical Frequency Comb Modes in Microresonators”
P. Del'Haye, W. Loh, K. Beha, S.B. Papp, and S.A. Diddams
- **University of Muenster Seminar Series**, Muenster, Germany June 2014
 “Ultra-High-Q Microresonators for Nonlinear Optics, Integrated Photonics, and Optical Frequency Comb Generation” P. Del'Haye (*invited talk*)
- **CLEO/IQEC**, San Jose, USA June 2014
 “Phase Measurements and Phase-Locking in Microresonator-Based Optical Frequency Combs”
P. Del'Haye, W. Loh, K. Beha, S.B. Papp, and S.A. Diddams
- **UCSB Seminar Series**, Santa Barbara, USA Feb. 2014
 “Ultra-High-Q Microresonators for Nonlinear Optics, Integrated Photonics, and Optical Frequency Comb Generation”
P. Del'Haye (*invited talk*)
- **NIST Time and Frequency Division Seminar Series**, Boulder, USA Nov. 2013
 “Recent Developments in Optical Microresonator-Based Frequency Combs”
P. Del'Haye
- **ASGSR/ISPS Annual Meeting**, Orlando, USA Nov. 2013
 “An Optical Microcomb Supporting Fundamental Physics Research on the International Space Station”
P. Del'Haye, S.B. Papp, D.C. Cole, K. Beha, S.A. Diddams, H. Lee, J. Li, K.J. Vahala (*invited talk*)
- **CLEO/IQEC**, San Jose, USA June 2013
 “Hybrid Electro-Optics Microcombs and Frequency Domain Analysis of Modelocking in Microresonators”
P. Del'Haye, S.B. Papp, and S.A. Diddams
- **CLEO Europe**, Munich, Germany May 2013
 “Pulse-Picked Octave-Spanning Microresonator-Based Frequency Comb for Optical Self-Referencing”
P. Del'Haye, D. Cole, S.B. Papp, and S.A. Diddams
- **IEEE Photonics Conference**, San Francisco, USA Sept. 2012
 “Mechanical Stabilization of Frequency Combs from Laser Machined Microrod-Resonators”
P. Del'Haye, S.B. Papp, and S.A. Diddams (*invited talk*)
- **CLEO/IQEC**, San Jose, USA May 2012
 “An All-Optical Resonator Stabilization Scheme with Laser Machined SiO₂ Microresonators”
P. Del'Haye, S.B. Papp, and S.A. Diddams
- **European Conference on Optical Communication (ECOC)**, Torino, Italy Nov. 2010
 “Octave-spanning tunable frequency combs on a chip”
P. Del'Haye, T. Herr, E. Gavartin, R. Holzwarth, and T. J. Kippenberg (*invited talk*)
- **Ringberg Seminar of the MPQ Laser spectroscopy Division**, Rottach-Egern, Germany Sept. 2010
 “Frequency comb generation from microresonators”
P. Del'Haye, C. Wang, T. Herr, M. Gorodetsky, R. Holzwarth, and T. J. Kippenberg
- **CLEO/IQEC**, San Jose, USA May 2010
 “Octave-spanning tunable frequency combs on a chip”
P. Del'Haye, T. Herr, E. Gavartin, R. Holzwarth and T. J. Kippenberg
- **National Institute of Standards and Technology**, Boulder, USA Nov. 2009
 “Chip-based frequency combs - towards an optical octave”
P. Del'Haye and T. J. Kippenberg (*invited talk*)
- **CLEO Europe/EQEC**, München, Germany March 2009
 “Broadband precision spectroscopy using a scanning diode laser and a frequency comb”

- P. Del'Haye, O. Arcizet, R. Holzwarth, and T. J. Kippenberg
 • **Conference on Lasers and Electro-Optics (CLEO)**, Baltimore, USA June 2009
 “Precision spectroscopy with a scanning diode laser and measurement of microcavity dispersion”
P. Del'Haye, O. Arcizet, R. Holzwarth, and T. J. Kippenberg
- **Deutsche Physikalische Gesellschaft Meeting**, Hamburg, Germany March 2009
 “Microcavity spectroscopy and chip-scale frequency combs”
P. Del'Haye, O. Arcizet, R. Holzwarth, and T. J. Kippenberg
- **NPL Time and Frequency Division Seminar Series**, Teddington, United Kingdom Nov. 2008
 “Frequency Comb Generation in Whispering Gallery Mode Resonators” (*invited talk*)
P. Del'Haye and T.J. Kippenberg
- **URSI General Assembly 2008**, Chicago, USA Aug. 2008
 “Optical frequency comb generation and stabilization in a monolithic microcavity” (*invited talk*)
P. Del'Haye, O. Arcizet, A. Schliesser, T. Wilken, R. Holzwarth and T.J. Kippenberg
- **Ringberg Seminar of the MPQ Laser spectroscopy Division**, Rottach-Egern, Germany Sept. 2008
 “Full stabilization of a microresonator-based optical frequency comb”
P. Del'Haye and T.J. Kippenberg
- **CLEO/QELS**, San Jose, USA May 2008
 “Full Stabilization of a Microcavity Frequency comb” (*invited talk*)
P. Del'Haye, O. Arcizet, A. Schliesser, T. Wilken, R. Holzwarth and T.J. Kippenberg
- **NIM D Workshop**, Munich, Germany Feb. 2008
 “Optical Frequency Comb Generation and Stabilization”
P. Del'Haye, A. Schliesser, O. Arcizet, T. Wilken, R. Holzwarth and T.J. Kippenberg
- **Frontiers in Optics**, San Jose, USA Sept. 2007
 “Optical Frequency Comb Generation from a Monolithic Microresonator” (*invited talk*)
P. Del'Haye, A. Schliesser, T. Wilken, R. Holzwarth and T.J. Kippenberg
- **CLEO/IQEC Europe**, Munich, Germany June 2007
 “Kerr Nonlinearity induced Optical Frequency Comb Generation in Microcavities”
P. Del'Haye, A. Schliesser, T. Wilken, R. Holzwarth and T.J. Kippenberg
- **Seminar Series of the MPQ Laser Spectroscopy Division**, Munich, Germany June 2007
 “Optical frequency comb generation in monolithic microcavities”
P. Del'Haye and T.J. Kippenberg
- **Conference on Lasers and Electro Optics (CLEO)**, Baltimore, USA May 2007
 “Kerr Nonlinearity induced Optical Frequency Comb Generation in Microcavities”
P. Del'Haye, A. Schliesser, T. Wilken, R. Holzwarth and T.J. Kippenberg
- **Seminar des Instituts für Schichten und Grenzflächen**, Aachen, Germany Oct. 2005
 “Nanolithographie und Messung bei tiefen Temperaturen”
P. Del'Haye