

Dietrich Feist – list of publications

Researcher ID: B-6489-2013 (h-index: 15)
Google Scholar: <https://goo.gl/HSPzqm> (h-index: 18)

Articles in peer-reviewed journals

- [1] Tobias Borsdorff, Joost aan de Brugh, Haili Hu, Otto Hasekamp, Ralf Sussmann, Markus Rettinger, Frank Hase, Jochen Gross, Matthias Schneider, Omaira Garcia, Wolfgang Stremme, Michel Grutter, Dietrich G. Feist, Sabrina G. Arnold, Martine De Mazière, Mahesh Kumar Sha, David F. Pollard, Matthäus Kiel, Coleen Roehl, Paul O. Wennberg, Geoffrey C. Toon, and Jochen Landgraf. Mapping carbon monoxide pollution from space down to city scales with daily global coverage. *Atmos. Meas. Tech.*, 11(10):5507–5518, October 2018. doi: 10.5194/amt-11-5507-2018.
- [2] Lianghai Wu, Otto Hasekamp, Haili Hu, Jochen Landgraf, Andre Butz, Joost aan de Brugh, Ilse Aben, Dave F. Pollard, David W. T. Griffith, Dietrich G. Feist, Dmitry Koshelev, Frank Hase, Geoffrey C. Toon, Hirofumi Ohyama, Isamu Morino, Justus Notholt, Kei Shiomi, Laura Iraci, Matthias Schneider, Martine De Mazière, Ralf Sussmann, Rigel Kivi, Thorsten Warneke, Tae-Young Goo, and Yao Té. Carbon dioxide retrieval from OCO-2 satellite observations using the RemoTeC algorithm and validation with tcon measurements. *Atmos. Meas. Tech.*, 11(5):3111–3130, May 2018. doi: 10.5194/amt-11-3111-2018.
- [3] Peter Bergamaschi, Ute Karstens, Alistair J. Manning, Marielle Saunio, Aki Tsuruta, Antoine Berchet, Alexander T. Vermeulen, Tim Arnold, Greet Janssens-Maenhout, Samuel Hammer, Ingeborg Levin, Martina Schmidt, Michel Ramonet, Morgan Lopez, Jost Lavric, Tuula Aalto, Huilin Chen, Dietrich G. Feist, Christoph Gerbig, László Haszpra, Ove Hermansen, Giovanni Manca, John Moncrieff, Frank Meinhardt, Jaroslaw Necki, Michal Galkowski, Simon O’Doherty, Nina Paramonova, Hubertus A. Scheeren, Martin Steinbacher, and Ed Dlugokencky. Inverse modelling of European CH₄ emissions during 2006–2012 using different inverse models and reassessed atmospheric observations. *Atmos. Chem. Phys.*, 18(2):901–920, January 2018. doi: 10.5194/acp-18-901-2018.
- [4] Prabir K. Patra, David Crisp, Johannes W. Kaiser, Debra Wunch, Tazu Saeki, Kazuhito Ichii, Takashi Sekiya, Paul O. Wennberg, Dietrich G. Feist, David F. Pollard, David W. T. Griffith, Voltaire A. Velazco, Martine De Maziere, Mahesh K. Sha, Coleen Roehl, Abhishek Chatterjee, and Kentaro Ishijima. The Orbiting Carbon Observatory (OCO-2) tracks 2–3 peta-gram increase in carbon release to the atmosphere during the 2014–2016 El Niño. *Nature Sci. Rep.*, 7:Article number: 13567, October 2017. doi: 10.1038/s41598-017-13459-0.
- [5] Debra Wunch, Paul O. Wennberg, Gregory Osterman, Brendan Fisher, Bret Naylor, Coleen M. Roehl, Christopher O’Dell, Lukas Mandrake, Camille Viatte, Matthäus Kiel, David W. T. Griffith, Nicholas M. Deutscher, Voltaire A. Velazco, Justus Notholt, Thorsten Warneke, Christof Petri, Martine De Maziere, Mahesh K. Sha, Ralf Sussmann, Markus Rettinger, David Pollard, John Robinson,

- Isamu Morino, Osamu Uchino, Frank Hase, Thomas Blumenstock, Dietrich G. Feist, Sabrina G. Arnold, Kimberly Strong, Joseph Mendonca, Rigel Kivi, Pauli Heikkinen, Laura Iraci, James Podolske, Patrick W. Hillyard, Shuji Kawakami, Manvendra K. Dubey, Harrison A. Parker, Eliezer Sepulveda, Omaira E. García, Yao Te, Pascal Jeseck, Michael R. Gunson, David Crisp, and Annmarie Eldering. Comparisons of the Orbiting Carbon Observatory-2 (OCO-2) XCO₂ measurements with TCCON. *Atmos. Meas. Tech.*, 10(6):2209–2238, June 2017. doi:10.5194/amt-10-2209-2017.
- [6] Liang Feng, Paul I. Palmer, Hartmut Bösch, Robert J. Parker, Alex J. Webb, Caio S. C. Correia, Nicholas M. Deutscher, Lucas G. Domingues, Dietrich G. Feist, Luciana V. Gatti, Emanuel Gloor, Frank Hase, Rigel Kivi, Yi Liu, John B. Miller, Isamu Morino, Ralf Sussmann, Kimberly Strong, Osamu Uchino, Jing Wang, and Andreas Zahn. Consistent regional fluxes of CH₄ and CO₂ inferred from GOSAT proxy XCH₄:XCO₂ retrievals, 2010–2014. *Atmos. Chem. Phys.*, 17(7):4781–4797, April 2017. doi:10.5194/acp-17-4781-2017.
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- [13] Susan Kulawik, Debra Wunch, Christopher O’Dell, Christian Frankenberg, Maximilian Reuter, Tomohiro Oda, Frederic Chevallier, Vanessa Sherlock, Michael Buchwitz, Greg Osterman, Charles E. Miller, Paul O. Wennberg, David Griffith, Isamu Morino, Manvendra K. Dubey, Nicholas M. Deutscher, Justus Notholt, Frank Hase, Thorsten Warneke, Ralf Sussmann, John Robinson, Kimberly Strong, Matthias Schneider, Martine De Mazière, Kei Shiomi, Dietrich G. Feist, Laura T. Iraci, and Joyce Wolf. Consistent evaluation of ACOS-GOSAT, BESD-SCIAMACHY, CarbonTracker, and MACC through comparisons to TCCON. *Atmos. Meas. Tech.*, 9(2):683–709, February 2016. doi:10.5194/amt-9-683-2016.
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Scientific datasets

- [47] D. G. Feist, S. G. Arnold, N. John, and M. C. Geibel. TCCON data from Ascension Island (SH), Release GGG2014.R0. TCCON Data Archive, hosted

by CaltechDATA, California Institute of Technology, CA (US), 2014. doi: 10.14291/tccon.ggg2014.ascension01.R0/1149285.

Book contributions

- [48] Christian Mätzler (ed.). *Thermal Microwave Radiation: Applications for Remote Sensing*. Number 52 in IEE Electromagnetic Wave series. The Institution of Engineering and Technology (IET), 2006. doi: 10.1049/PBEW052E_ch2.
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