

# Christoph Knote

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919 total citations (Google Scholar)

h-index: 19 (Google Scholar) / 17 (Thompson-Reuters ResearcherID)

## Peer-reviewed publications

### 2018

Andreae, M. O., Afchine, A., Albrecht, R., Holanda, B. A., Artaxo, P., Barbosa, H. M. J., Borrmann, S., Cecchini, M. A., Costa, A., Dollner, M., Fütterer, D., Järvinen, E., Jurkat, T., Klimach, T., Konemann, T., **Knote, C.**, Krämer, M., Krisna, T., Machado, L. A. T., Mertes, S., Minikin, A., Pöhlker, C., Pöhlker, M. L., Pöschl, U., Rosenfeld, D., Sauer, D., Schlager, H., Schnaiter, M., Schneider, J., Schulz, C., Spanu, A., Sperling, V. B., Voigt, C., Walser, A., Wang, J., Weinzierl, B., Wendisch, M., and Ziereis, H. (2018). “Aerosol characteristics and particle production in the upper troposphere over the Amazon Basin”. In: *Atmospheric Chemistry and Physics* 18.2, pp. 921–961. DOI: 10.5194/acp-18-921-2018.

Conibear, L., Butt, E. W., **Knote, C.**, Arnold, S. R., and Spracklen, D. V. (2018). “Residential energy use emissions dominate health impacts from exposure to ambient particulate matter in India”. In: *Nature Communications* 9.1, p. 617. DOI: 10.1038/s41467-018-02986-7.

**Knote, C.**, Barré, J., and Eckl, M. (2018). “BEATBOX v1.0: Background Error Analysis Testbed with Box Models”. In: *Geoscientific Model Development* 11.2, pp. 561–573. DOI: 10.5194/gmd-11-561-2018.

### 2017

Zaragoza, J., Callahan, S., McDuffie, E. E., Kirkland, J., Brophy, P., Durrett, L., Farmer, D. K., Zhou, Y., Sive, B., Flocke, F., et al. (2017). “Observations of Acyl Peroxy Nitrates During the Front Range Air Pollution and Photochemistry Experiment (FRAPPÉ)”. In: *Journal of Geophysical Research: Atmospheres* 122.22.

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Gratz, L., Ambrose, J., Jaffe, D., **Knote, C.**, Jaeglé, L., Selin, N., Campos, T., Flocke, F., Reeves, M., Stechman, D., Steil, M., Weinheimer, A., Knapp, D., Montzka, D., Tyndall, G., Mauldin, R. L., Cantrell, C., Apel, E. C., Hornbrook, R. S., and Blake, N. (2016). “Airborne observations of mercury emissions from the Chicago/Gary urban/industrial area during the 2013 NOMADSS campaign”. In: *Atmospheric Environment* 145, pp. 415–423.

Li, R., Palm, B. B., Ortega, A. M., Hlywiak, J., Hu, W., Peng, Z., Day, D. A., **Knote, C.**, Brune, W. H., Gouw, J. A. de, et al. (2016). “Correction to “Modeling the Radical Chemistry in an Oxidation Flow Reactor: Radical Formation and Recycling, Sensitivities, and the OH Exposure Estimation Equation””. In: *The Journal of Physical Chemistry A* 120.16, pp. 2605–2605.

Sullivan, J. T., McGee, T. J., Langford, A. O., Alvarez, R. J., Senff, C. J., Reddy, P. J., Thompson, A. M., Twigg, L. W., Sumnicht, G. K., Lee, P., Weinheimer, A., **Knute, C.**, Long, R. W., and Hoff, R. M. (2016). “Quantifying the Contribution of Thermally-Driven Recirculation to a High Ozone Event along the Colorado Front Range using Lidar”. In: *Journal of Geophysical Research: Atmospheres*. 2016JD025229. DOI: 10.1002/2016JD025229.

Ye, C., Zhou, X., Pu, D., Stutz, J., Festa, J., Spolaor, M., Tsai, C., Cantrell, C., Mauldin, R. L., Campos, T., Weinheimer, A., Hornbrook, R. S., Apel, E. C., Guenther, A., Kaser, L., Yuan, B., Karl, T., Haggerty, J., Hall, S., Ullmann, K., Smith, J. N., Ortega, J., and **Knute, C.** (2016). “Rapid cycling of reactive nitrogen in the marine boundary layer”. In: *Nature* 532.7600, pp. 489–491. DOI: 10.1038/nature17195.

## 2015

Allen, H. M., Draper, D. C., Ayres, B. R., Ault, A., Bondy, A., Takahama, S., Modini, R. L., Baumann, K., Edgerton, E., **Knute, C.**, Laskin, A., Wang, B., and Fry, J. L. (2015). “Influence of crustal dust and sea spray supermicron particle concentrations and acidity on inorganic  $\text{NO}_3^-$  aerosol during the 2013 Southern Oxidant and Aerosol Study”. In: *Atmospheric Chemistry and Physics* 15.18, pp. 10669–10685. DOI: 10.5194/acp-15-10669-2015.

Brunner, D., Savage, N., Jorba, O., Eder, B., Giordano, L., Badia, A., Balzarini, A., Baró, R., Bianconi, R., Chemel, C., Curci, G., Forkel, R., Jiménez-Guerrero, P., Hirtl, M., Hodzic, A., Honzak, L., Im, U., **Knute, C.**, Makar, P., Manders-Groot, A., Meijgaard, E. van, Neal, L., Pérez, J. L., Pirovano, G., Jose, R. S., Schröder, W., Sokhi, R. S., Syrakov, D., Torian, A., Tuccella, P., Werhahn, J., Wolke, R., Yahya, K., Zabkar, R., Zhang, Y., Hogrefe, C., and Galmarini, S. (2015). “Comparative analysis of meteorological performance of coupled chemistry-meteorology models in the context of AQMEII phase 2”. In: *Atmospheric Environment* 115, pp. 470–498. DOI: 10.1016/j.atmosenv.2014.12.032.

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Curci, G., Hogrefe, C., Bianconi, R., Im, U., Balzarini, A., Baró, R., Brunner, D., Forkel, R., Giordano, L., Hirtl, M., Honzak, L., Jiménez-Guerrero, P., **Knute, C.**, Langer, M., Makar, P., Pirovano, G., Pérez, J., José, R. S., Syrakov, D., Tuccella, P., Werhahn, J., Wolke, R., Zabkar, R., Zhang, J., and Galmarini, S. (2015). “Uncertainties of simulated aerosol optical properties induced by assumptions on aerosol physical and chemical properties: An AQMEII-2 perspective”. In: *Atmospheric Environment* 115, pp. 541–552. DOI: 10.1016/j.atmosenv.2014.09.009.

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in AQMEII-2". In: *Atmospheric Environment* 115, pp. 371–388. DOI: 10.1016/j.atmosenv.2015.02.034.

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Kaser, L., Karl, T., Yuan, B., Mauldin, R. L., Cantrell, C. A., Guenther, A. B., Patton, E. G., Weinheimer, A. J., **Knöte, C.**, Orlando, J., Emmons, L., Apel, E., Hornbrook, R., Shertz, S., Ullmann, K., Hall, S., Graus, M., Gouw, J. de, Zhou, X., and Ye, C. (2015). "Chemistry-turbulence interactions and mesoscale variability influence the cleansing efficiency of the atmosphere". In: *Geophysical Research Letters* 42.24. 2015GL066641, pp. 10, 894–10, 903. DOI: 10.1002/2015GL066641.

**Knöte, C.**, Hodzic, A., and Jimenez, J. L. (2015). "The effect of dry and wet deposition of condensable vapors on secondary organic aerosols concentrations over the continental US". In: *Atmospheric Chemistry and Physics* 15.1, pp. 1–18. DOI: 10.5194/acp-15-1-2015.

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## 2014

Hodzic, A., Aumont, B., **Knote, C.**, Lee-Taylor, J., Madronich, S., and Tyndall, G. (2014). “Volatility dependence of Henry’s law constants of condensable organics: Application to estimate depositional loss of secondary organic aerosols”. In: *Geophysical Research Letters* 41.13. 2014GL060649, pp. 4795–4804. DOI: 10.1002/2014GL060649.

**Knote, C.**, Hodzic, A., Jimenez, J. L., Volkamer, R., Orlando, J. J., Baidar, S., Brioude, J., Fast, J., Gentner, D. R., Goldstein, A. H., Hayes, P. L., Knighton, W. B., Oetjen, H., Setyan, A., Stark, H., Thalman, R., Tyndall, G., Washenfelder, R., Waxman, E., and Zhang, Q. (2014). “Simulation of semi-explicit mechanisms of SOA formation from glyoxal in aerosol in a 3-D model”. In: *Atmospheric Chemistry and Physics* 14.12, pp. 6213–6239. DOI: 10.5194/acp-14-6213-2014.

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## 2013

Athanasopoulou, E., Vogel, H., Vogel, B., Tsimpidi, A. P., Pandis, S. N., **Knote, C.**, and Fountoukis, C. (2013). “Modeling the meteorological and chemical effects of secondary organic aerosols during an EUCAARI campaign”. In: *Atmospheric Chemistry and Physics* 13.2, pp. 625–645. DOI: 10.5194/acp-13-625-2013.

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**Knote, C.**, Brunner, D., Vogel, H., Allan, J., Asmi, A., Äijälä, M., Carbone, S., Gon, H. D. van der, Jimenez, J. L., Kiendler-Scharr, A., Mohr, C., Poulain, L., Prévôt, A. S. H., Swietlicki, E., and Vogel, B. (2011). “Towards an online-coupled chemistry-climate model: evaluation of trace gases and aerosols in COSMO-ART”. In: *Geoscientific Model Development* 4.4, pp. 1077–1102. DOI: 10.5194/gmd-4-1077-2011.

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## Other, non peer-reviewed publications

Brunner, D., **Knote, C.**, Giordano, L., and Hueglin, C. (2014). “Increases in Wintertime Oxidation Capacity Counteract the Success of Emission Reduction Measures in Europe with Respect to Secondary Inorganic Aerosols”. In: *Air Pollution Modeling and its Application XXIII*. Springer International Publishing, pp. 115–119.

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