

(He et al. 2021; Huang et al. 2021; Iyer 2019; Iyer et al. 2021; Partovi 2021; Rissanen 2021; Rissanen et al. 2019; Tham et al. 2021; Wang et al. 2021; Wang et al. 2020; Wu et al. 2021)

He, X. C. and Tham, Y. J. and Dada, L. and Wang, M. Y. and Finkenzeller, H. and Stolzenburg, D. and Iyer, S. and Simon, M. and Kurten, A. and Shen, J. L. and Rorup, B. and Rissanen, M. and Schobesberger, S. and Baalbaki, R. and Wang, D. S. and Koenig, T. K. and Jokinen, T. and Sarnela, N. and Beck, L. J. and Almeida, J. and Amanatidis, S. and Amorim, A. and Ataei, F. and Baccharini, A. and Bertozzi, B. and Bianchi, F. and Brilke, S. and Caudillo, L. and Chen, D. X. and Chiu, R. and Chu, B. W. and Dias, A. and Ding, A. J. and Dommen, J. and Duplissy, J. and El Haddad, I. and Carracedo, L. G. and Granzin, M. and Hansel, A. and Heinritzi, M. and Hofbauer, V. and Junninen, H. and Kangasluoma, J. and Kempainen, D. and Kim, C. and Kong, W. M. and Krechmer, J. E. and Kvashin, A. and Laitinen, T. and Lamkaddam, H. and Lee, C. P. and Lehtipalo, K. and Leiminger, M. and Li, Z. J. and Makhmutov, V. and Manninen, H. E. and Marie, G. and Marten, R. and Mathot, S. and Mauldin, R. L. and Mentler, B. and Mohler, O. and Muller, T. and Nie, W. and Onnela, A. and Petaja, T. and Pfeifer, J. and Philippov, M. and Ranjithkumar, A. and Saiz-Lopez, A. and Salma, I. and Scholz, W. and Schuchmann, S. and Schulze, B. and Steiner, G. and Stozhkov, Y. and Tauber, C. and Tome, A. and Thakur, R. C. and Vaisanen, O. and Vazquez-Pufleau, M. and Wagner, A. C. and Wang, Y. H. and Weber, S. K. and Winkler, P. M. and Wu, Y. S. and Xiao, M. and Yan, C. and Ye, Q. and Ylisirnio, A. and Zauner-Wieczorek, M. and Zha, Q. Z. and Zhou, P. T. and Flagan, R. C. and Curtius, J. and Baltensperger, U. and Kulmala, M. and Kerminen, V. M. and Kurten, T. and Donahue, N. M. and Volkamer, R. and Kirkby, J. and Worsnop, D. R. and Sipila, M. (2021). Role of iodine oxoacids in atmospheric aerosol nucleation. *Science* 371:589-+.

Huang, W., Li, H. Y., Sarnela, N., Heikkinen, L., Tham, Y. J., Mikkila, J., Thomas, S. J., Donahue, N. M., Kulmala, M., Bianchi, F. (2021). Measurement report: Molecular composition and volatility of gaseous organic compounds in a boreal forest - from volatile organic compounds to highly oxygenated organic molecules. *Atmos Chem Phys* 21:8961-8977.

Iyer, S. (2019). Probing gas-phase radical reactions and modeling the detection of aerosol precursors using computational and experimental methods. Doctoral thesis University of Helsinki.

Iyer, S., Rissanen, M. P., Valiev, R., Barua, S., Krechmer, J. E., Thornton, J., Ehn, M., Kurten, T. (2021). Molecular mechanism for rapid autoxidation in alpha-pinene ozonolysis. *Nat Commun* 12.

Partovi, F. (2021). Pre-screening of pesticides using straight radiation chemical ionization and Orbitrap mass spectrometry. Pro Gradu University of Helsinki.

Rissanen, M. (2021). Anthropogenic Volatile Organic Compound (AVOC) Autoxidation as a Source of Highly Oxygenated Organic Molecules (HOM). *J Phys Chem A* 125:9027-9039.

Rissanen, M. P., Mikkila, J., Iyer, S., Hakala, J. (2019). Multi-scheme chemical ionization inlet (MION) for fast switching of reagent ion chemistry in atmospheric pressure chemical ionization mass spectrometry (CIMS) applications. *Atmos Meas Tech* 12:6635-6646.

Tham, Y. J., He, X. C., Li, Q. Y., Cuevas, C. A., Shen, J. L., Kalliokoski, J., Yan, C., Iyer, S., Lehmusjarvi, T., Jang, S. H., Thakur, R. C., Beck, L., Kemppainen, D., Olin, M., Sarnela, N., Mikkila, J., Hakala, J., Marbouti, M., Yao, L., Li, H. Y., Huang, W., Wang, Y. H., Wimmer, D., Zha, Q. Z., Virkanen, J., Spain, T. G., O'Doherty, S., Jokinen, T., Bianchi, F., Petaja, T., Worsnop, D. R., Mauldin, R. L., Ovadnevaite, J., Ceburnis, D., Maier, N. M., Kulmala, M., O'Dowd, C., Dal Maso, M., Saiz-Lopez, A., Sipila, M. (2021). Direct field evidence of autocatalytic iodine release from atmospheric aerosol. *P Natl Acad Sci USA* 118.

Wang, M. Y., He, X. C., Finkenzeller, H., Iyer, S., Chen, D. X., Shen, J. L., Simon, M., Hofbauer, V., Kirkby, J., Curtius, J., Maier, N., Kurten, T., Worsnop, D. R., Kulmala, M., Rissanen, M., Volkamer, R., Tham, Y. J., Donahue, N. M., Sipila, M. (2021). Measurement of iodine species and sulfuric acid using bromide chemical ionization mass spectrometers. *Atmos Meas Tech* 14:4187-4202.

Wang, M. Y., Kong, W. M., Marten, R., He, X. C., Chen, D. X., Pfeifer, J., Heitto, A., Kontkanen, J., Dada, L., Kurten, A., Yli-Juuti, T., Manninen, H. E., Amanatidis, S., Amorim, A., Baalbaki, R., Baccarini, A., Bell, D. M., Bertozzi, B., Br?kling, S., Brilke, S., Murillo, L. C., Chiu, R., Chu, B. W., De Menezes, L. P., Duplissy, J., Finkenzeller, H., Carracedo, L. G., Granzin, M., Guida, R., Hansel, A., Hofbauer, V., Krechmer, J., Lehtipalo, K., Lamkaddam, H., Lampim?ki, M., Lee, C. P., Makhmutov, V., Marie, G., Mathot, S., Mauldin, R. L., Mentler, B., Muller, T., Onnela, A., Partoll, E., Pet?j?, T., Philippov, M., Pospisilova, V., Ranjithkumar, A., Rissanen, M., R?rup, B., Scholz, W., Shen, J. L., Simon, M., Sipil?, M., Steiner, G., Stolzenburg, D., Tham, Y. J., Tom?, A., Wagner, A. C., Wang, D. Y. S., Wang, Y. H., Weber, S. K., Winkler, P. M., Wlasits, P. J., Wu, Y. H., Xiao, M., Ye, Q., Zauner-Wieczorek, M., Zhou, X. Q., Volkamer, R., Riipinen, I., Dommen, J., Curtius, J., Baltensperger, U., Kulmala, M., Worsnop, D. R., Kirkby, J., Seinfeld, J. H., El-Haddad, I., Flagan, R. C., Donahue, N. M. (2020). Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. *Nature* 581:184-+.

Wu, R. R., Vereecken, L., Tsiligiannis, E., Kang, S. G., Albrecht, S. R., Hantschke, L., Zhao, D. F., Novelli, A., Fuchs, H., Tillmann, R., Hohaus, T., Carlsson, P. T. M., Shenolikar, J., Bernard, F., Crowley, J. N., Fry, J. L., Brownwood, B., Thornton, J. A., Brown, S. S., Kiendler-Scharr, A., Wahner, A., Hallquist, M., Mentel, T. F. (2021). Molecular composition and volatility of multi-generation products formed from isoprene oxidation by nitrate radical. *Atmos Chem Phys* 21:10799-10824.