

List of Rolf Sander's Publications

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(last update: 2017-04-25)

— 2017 —

96. Keßel, S., Cabrera-Perez, D., Horowitz, A., Veres, P. R., Sander, R., Taraborrelli, D., Tucceri, M., Crowley, J., Pozzer, A., Vereecken, L., Lelieveld, J., & Williams, J.: *Atmospheric chemistry, sources, and sinks of carbon suboxide*, C₃O₂, Atmos. Chem. Phys. Discuss., doi: 10.5194/acp-2017-49, <http://www.atmos-chem-phys-discuss.net/acp-2017-49> (2017)

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95. Derstroff, B., Hüser, I., Sander, R., Bourtsoukidis, E., Crowley, J. N., Fischer, H., Gromov, S., Harder, H., Kesselmeier, J., Lelieveld, J., Mallik, C., Martinez, M., Novelli, A., Parchatka, U., Phillips, G. J., Sauvage, C., Schuladen, J., Stöner, C., Tomsche, L., & Williams, J.: *Volatile organic compounds (VOCs) in photochemically aged air from the Eastern and Western Mediterranean*, Atmos. Chem. Phys. Discuss., 16, 1–44, doi: 10.5194/acp-2016-746, <http://www.atmos-chem-phys-discuss.net/acp-2016-746/> (2016)
94. Cabrera-Perez, D., Taraborrelli, D., Sander, R., & Pozzer, A.: *Global atmospheric budget of simple monocyclic aromatic compounds*, Atmos. Chem. Phys., 16, 6931–6947, doi: 10.5194/acp-16-6931-2016, <http://www.atmos-chem-phys.net/16/6931> (2016)
93. Sukhodolov, T., Rozanov, E., Ball, W., Bais, A., Tourpali, K., Shapiro, A., Telford, P., Smyshlyaev, S., Fomin, B., Sander, R., Bossay, S., Chipperfield, M., Dhomse, S., Haigh, J., Peter, T., & Schmutz, W.: *Evaluation of simulated photolysis rates and their response to solar irradiance variability*, J. Geophys. Res., 121D, doi: 10.1002/2015JD024277 (2016)
92. Jöckel, P., Tost, H., Pozzer, A., Kunze, M., Kirner, O., Brenninkmeijer, C. A. M., Brinkop, S., Cai, D. S., Dyroff, C., Eckstein, J., Frank, F., Garny, H., Gottschaldt, K.-D., Graf, P., Grewe, V., Kerkweg, A., Kern, B., Matthes, S., Mertens, M., Meul, S., Neumaier, M., Nützel, M., Oberländer-Hayn, S., Ruhnke, R., Runde, T., Sander, R., Scharffe, D., & Zahn, A.: *Earth System Chemistry integrated Modelling (ESCiMo) with the Modular Earth Submodel System (MESSy, version 2.51)*, Geosci. Model Dev., 9, 1153–1200, doi: 10.5194/gmd-9-1153-2016, <http://www.geosci-model-dev.net/9/1153> (2016)
91. Baumgaertner, A. J. G., Jöckel, P., Kerkweg, A., Sander, R., & Tost, H.: *Implementation of the Community Earth System Model (CESM1, version 1.2.1) as a new base model into version 2.50 of the MESSy framework*, Geosci. Model Dev., 9, 125–135, doi: 10.5194/gmd-9-125-2016, <http://www.geosci-model-dev.net/9/125> (2016)

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90. Sander, R.: *Compilation of Henry's law constants (version 4.0) for water as solvent*, Atmos. Chem. Phys., 15, 4399–4981, doi: 10.5194/acp-15-4399-2015, <http://www.atmos-chem-phys.net/15/4399> (2015)
89. Jordan, C. E., Pszenny, A. A. P., Keene, W. C., Cooper, O. R., Deegan, B., Maben, J., Routhier, M., Sander, R., & Young, A. H.: *Origins of aerosol chlorine during winter over north central Colorado, USA*, J. Geophys. Res. Atmos., 120, 678–694, doi: 10.1002/2014JD022294 (2015)

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88. Sander, R., Jöckel, P., Kirner, O., Kunert, A. T., Landgraf, J., & Pozzer, A.: *The photolysis module JVAL-14, compatible with the MESSy standard, and the JVal PreProcessor (JVPP)*, Geosci. Model Dev., 7, 2653–2662, <http://www.geosci-model-dev.net/7/2653> (2014)
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85. Long, M. S., Keene, W. C., Easter, R. C., Sander, R., Liu, X., Kerkweg, A., & Erickson, D.: *Sensitivity of tropospheric chemical composition to halogen-radical chemistry using a fully coupled size-resolved multiphase chemistry-global climate system: halogen distributions, aerosol composition, and sensitivity of climate-relevant gases.*, Atmos. Chem. Phys., 14, 3397–3425, <http://www.atmos-chem-phys.net/14/3397> (2014)
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83. Sander, R., Pszenny, A. A. P., Keene, W. C., Crete, E., Deegan, B., Long, M. S., Maben, J. R., & Young, A. H.: *Gas phase acid, ammonia and aerosol ionic and trace element concentrations at Cape Verde during the Reactive Halogens in the Marine Boundary Layer (RHAMBLE) 2007 intensive sampling period*, Earth Syst. Sci. Data, 5, 385–392, doi: 10.5194/essd-5-385-2013, <http://www.earth-syst-sci-data.net/5/385> (2013)
82. Keller-Rudek, H., Moortgat, G. K., Sander, R., & Sörensen, R.: *The MPI-Mainz UV/VIS spectral atlas of gaseous molecules of atmospheric interest*, Earth Syst. Sci. Data, 5, 365–373, <http://www.earth-syst-sci-data.net/5/365> (2013)
81. van Eijck, A., Opatz, T., Taraborrelli, D., Sander, R., & Hoffmann, T.: *New tracer compounds for secondary organic aerosol formation from β -caryophyllene oxidation*, Atmos. Environ., 80, 122–130 (2013)
80. Regelin, E., Harder, H., Martinez, M., Kubistin, D., Tatum Ernest, C., Bozem, H., Klippel, T., Hosaynali-Beygi, Z., Fischer, H., Sander, R., Jöckel, P., Königstedt, R., & Lelieveld, J.: *HO_x measurements in the summertime upper troposphere over Europe: A comparison of observations to a box model and a 3-D model*, Atmos. Chem. Phys., 13, 10 703–10 720, <http://www.atmos-chem-phys.net/13/10703> (2013)
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78. Long, M. S., Keene, W. C., Easter, R., Sander, R., Kerkweg, A., Erickson, D., Liu, X., & Ghan, S.: *Implementation of the chemistry module MECCA (v2.5) in the modal aerosol version of the Community Atmosphere Model component (v3.6.33) of the Community Earth System Model*, Geosci. Model Dev., 6, 255–262, <http://www.geosci-model-dev.net/6/255> (2013)

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76. Sihler, H., Platt, U., Beirle, S., Marbach, T., Kühl, S., Dörner, S., Verschaeve, J., Frieß, U., Pöhler, D., Vogel, L., Sander, R., & Wagner, T.: *Tropospheric BrO column densities in the Arctic derived from satellite: retrieval and comparison to ground-based measurements*, Atmos. Meas. Tech., 5, 2779–2807, <http://www.atmos-meas-tech.net/5/2779> (2012)
75. van Stratum, B. J. H., Vilà-Guerau de Arellano, J., Ouwersloot, H. G., van den Dries, K., van Laar, T. W., Martinez, M., Lelieveld, J., Diesch, J.-M., Drewnick, F., Fischer, H., Hosaynali Beygi, Z., Harder, H., Regelin, E., Sinha, V., Adame, J. A., Sörgel, M., Sander, R., Bozem, H., Song,

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74. Trebs, I., Mayol-Bracero, O. L., Pauliquevis, T., Kuhn, U., Sander, R., Ganzeveld, L., Meixner, F. X., Kesselmeier, J., Artaxo, P., & Andreae, M. O.: *Impact of the Manaus urban plume on trace gas mixing ratios near the surface in the Amazon Basin: Implications for the NO-NO₂-O₃ photostationary state and peroxy radical levels*, *J. Geophys. Res.*, 117, D05307, doi: 10.1029/2011JD016386 (2012)

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72. Frieß, U., Sihler, H., Sander, R., Pöhler, D., Yilmaz, S., & Platt, U.: *The vertical distribution of BrO and aerosols in the Arctic: Measurements by active and passive differential optical absorption spectroscopy*, *J. Geophys. Res.*, 116D, D00R04, doi: 10.1029/2011JD015938 (2011)
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68. Klippel, T., Fischer, H., Bozem, H., Lawrence, M. G., Butler, T., Jöckel, P., Tost, H., Martinez, M., Harder, H., Regelin, E., Sander, R., Schiller, C. L., Stickler, A., & Lelieveld, J.: *Distribution of hydrogen peroxide and formaldehyde over Central Europe during the HOOVER project*, *Atmos. Chem. Phys.*, 11, 4391–4410, <http://www.atmos-chem-phys.net/11/4391> (2011)
67. Sander, R., Baumgaertner, A., Gromov, S., Harder, H., Jöckel, P., Kerkweg, A., Kubistin, D., Regelin, E., Riede, H., Sandu, A., Taraborrelli, D., Tost, H., & Xie, Z.-Q.: *The atmospheric chemistry box model CAABA/MECCA-3.0*, *Geosci. Model Dev.*, 4, 373–380, <http://www.geosci-model-dev.net/4/373> (2011)
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65. Liao, J., Sihler, H., Huey, L. G., Neuman, J. A., Tanner, D. J., Friess, U., Platt, U., Flocke, F. M., Orlando, J. J., Shepson, P. B., Beine, H. J., Weinheimer, A. J., Sjostedt, S. J., Nowak, J. B., Knapp, D. J., Staebler, R. M., Zheng, W., Sander, R., Hall, S. R., & Ullmann, K.: *A comparison of Arctic BrO measurements by chemical ionization mass spectrometry and long path-differential optical absorption spectroscopy*, *J. Geophys. Res.*, 116D, D00R02, doi: 10.1029/2010JD014788 (2011)

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