

## SOPHIE SZOPA LIST OF PUBLICATIONS (PEER REVIEWED)

Students or post-docs I supervised are underlined.

1. B. Aumont, F. Chervier and **S. Laval** - "Contribution of HONO sources to the NO<sub>x</sub>/HO<sub>x</sub>/O<sub>3</sub> chemistry in the polluted boundary layer" - *Atmospheric Environment*, 37, 487-498, **2003**.
2. B. Aumont, **S. Szopa**, S. Madronich - "Modelling the evolution of organic carbon during its gas-phase tropospheric oxidation: development of an explicit model based on a self generating approach" - *Atmospheric Chemistry and Physics*, 2497-2517. SRef-ID: 1680-7324/acp/2005-5-2497, **2005**.
3. **S. Szopa**, B. Aumont, S. Madronich - "Assessment of the reduction methods used to develop chemical schemes: building of a new chemical scheme for VOC oxidation suited to three dimensional multiscale HO<sub>x</sub>-NO<sub>x</sub>-VOC chemistry simulations" - *Atmospheric Chemistry and Physics*, 5, 2519-2538, SRef-ID: 1680-7324/acp/2005-5-2519, **2005**.
4. D. Hauglustaine, J. Lathière, G. Folberth, **S. Szopa** - "Evolution of tropospheric ozone during the 21<sup>st</sup> century" - *Geophysical Research Letter*, 32, L24807, doi:10.1029/2005GL024031, **2005**.
5. M. Gauss, G. Myhre, I. S. A. Isaksen, + 20 co-authors by alphabetical order including **S. Szopa** - "Radiative forcing since preindustrial times due to ozone change in the troposphere and the lower stratosphere" - *Atmospheric Chemistry and Physics*, p. 575-599. SRef-ID: 1680-7324/acp/2006-6-575, **2006**.
6. D.S. Stevenson, F.J. Dentener, M. Schultz, K. Ellingsen, T. van Noije, G. Zeng, + 34 co-authors by alphabetical order including **S. Szopa** - "Multi-model ensemble simulations of present-day and near-future tropospheric ozone" - *Journal of Geophysical Research*, 111, D08301, doi:10.1029/2005JD006338, **2006**.
7. F. Dentener, D. Stevenson, K. Ellingsen, T. van Noije, M. Schultz, + 36 co-authors by alphabetical order including **S. Szopa** - "The global atmospheric environment for the next generation" - *Environmental Science and Technology*, 40, 3586-3594, doi: 10.1021/es0523845, **2006**.
8. F. Dentener, J. Drevet, D. Stevenson, K. Ellingsen, T. van Noije, M. Schultz, + 19 co-authors by alphabetical order including **S. Szopa** - "Nitrogen and sulfur deposition on regional and global scales: a multi-model evaluation" - *Global Biogeochemical Cycles*, 20, 4, GB4003, **2006**.
9. T. P. C. van Noije, H. J. Eskes, F. J. Dentener, D. S. Stevenson, K. Ellingsen, M. G. Schultz, O. Wild, + 28 co-authors by alphabetical order including **S. Szopa** - "Multi-model ensemble simulations of tropospheric NO<sub>2</sub> compared with GOME retrievals for the year 2000" - *Atmospheric Chemistry and Physics*, 6, 2943-2979, **2006**.
10. D.T. Shindell, G. Faluvegi, D.S. Stevenson, M.C. Krol, L. K. Emmons, J.-F. Lamarque, G. Pétron, F.J. Dentener, K. Ellingsen, M.G. Schultz, O. Wild, + 32 co-authors by alphabetical order including **S. Szopa** - "Multi-model simulations of carbon monoxide: Comparison with observations and projected near-future changes" - *Journal of Geophysical Research*, 111, D19, D19306, doi:10.1029/2006JD007100, **2006**.
11. **S. Szopa**, D. Hauglustaine, R. Vautard, L. Menut - "Evolution of the tropospheric composition in 2030: impact on European air quality" - *Geophysical Research Letter*, 3, L14805, doi:10.1029/2006GL025860, **2006**.
12. R. Vautard, **S. Szopa**, M. Beekmann, L. Menut, D.A. Hauglustaine, L. Rouil, M. Roemer - "Are decadal anthropogenic emission reductions in Europe consistent with surface ozone observations?" - *Geophysical Research Letter*, 33, L13810, doi:10.1029/2006GL026080, **2006**.
13. V. Eyring, D. S. Stevenson, A. Lauer, F. J. Dentener, T. + 15 co-authors by alphabetical order including **S. Szopa** - "Multi-model simulations of the impact of international shipping on atmospheric chemistry and climate in 2000 and 2030" - *Atmospheric Chemistry and Physics*, 7, 757-780, **2007**.
14. **S. Szopa**, D. A. Hauglustaine, P. Ciais - "Relative contributions of biomass burning emissions and atmospheric transport to carbon monoxide inter-annual variability" - *Geophysical Research Letter*, 34, L18810, doi:10.1029/2007GL030231, **2007**.
15. J.J. West, **S. Szopa**, D.A. Hauglustaine - "Human mortality effects of future concentrations of tropospheric ozone - Effets des futures concentrations d'ozone troposphérique sur la mortalité humaine" - *Comptes Rendus Geosciences*, 339, 11-12, 775-783, doi:10.1016/j.crte.2007.08.005, **2007**.
16. **Szopa, S.** and Hauglustaine D.A. - "Relative impacts of worldwide tropospheric ozone changes and regional emission modifications on European surface ozone levels" - *Comptes Rendus Geosciences*, 339, 11-12, 709-720 doi:10.1016/j.crte.2007.08.013, **2007**.
17. G. Dufour, **S. Szopa**, D. Hauglustaine, C.D. Boone, C.P. Rinsland, and P.F. Bernath - "The influence of biogenic emissions on upper-tropospheric methanol as revealed from space" - *Atmospheric Chemistry and Physics*, 7, 6119-6129, **2007**.
18. M.G. Sanderson, F.J. Dentener, A.M. Fiore, C. Cuvelier, T.J. Keating, A. Zuber, + 24 co-authors by alphabetical order including **S. Szopa** - "A multi-model study of the hemispheric transport and deposition of oxidised nitrogen" - *Geophysical Research Letter*, 35, L17815, doi:10.1029/2008GL035389, **2008**.
19. S. Turquety, C. Clerbaux, K. Law, P.-F. Coheur, A. Cozic, **S. Szopa**, D. A. Hauglustaine, J. Hadji-Lazaro, A. M. S. Gloudemans, H. Schrijver, C. D. Boone, P. F. Bernath, and D. P. Edwards - "CO emission and export from Asia: an analysis combining complementary satellite measurements (MOPITT, SCIAMACHY and ACE-FTS) with global modelling" - *Atmospheric Chemistry and Physics*, 8, 5187-5204, **2008**.

20. D. T. Shindell, + 33 co-authors by alphabetical order including **S. Szopa** - "A multi-model assessment of pollution transport to the Arctic" - *Atmospheric Chemistry and Physics*, 8, 5353-5372, **2008**.
21. Chevallier, F., Fortems, A., Bousquet, P., Pison, I., **Szopa, S.**, Devaux, M., and Hauglustaine, D. A. - "African CO emissions between years 2000 and 2006 as estimated from MOPITT observations" - *Biogeosciences*, 6, 103-111, **2009**.
22. **Szopa S.**, G. Foret, L. Menut, A. Cozic - "Impact of large scale circulation on European summer surface ozone: consequences for modeling forecast", *Atmospheric Environment*, doi:10.1016/j.atmosenv.2008.10.039, **2009**.
23. A.M. Fiore, F.J. Dentener, O. Wild, C. Cuvelier, M.G. Schultz, P. Hess, C. Textor, M. Schulz, R. Doherty, L.W. Horowitz, I.A. MacKenzie, M.G. Sanderson, D.T. Shindell, D.S. Stevenson, **S. Szopa**, R. Van Dingenen, G. Zeng, C. + 24 co-authors by alphabetical order. Multimodel estimates of intercontinental source-receptor relationships for ozone pollution, *J. Geophys. Res.*, 114, D04301, doi:10.1029/2008JD010816, **2009**.
24. G. Dufour, **S. Szopa**, M. P. Barkley, C. D. Boone, A. Perrin, P. Palmer, and P. F. Bernath, Global Upper-Tropospheric Formaldehyde: seasonal cycle observed by the ACE-FTS satellite instrument, *Atmospheric Chemistry and Physics*, Vol.9, pp. 3893-3910, SRef-ID: 1680-7324/acp/2009-9-3893, **2009**.
25. S. C. Anenberg, J. J. West, A. M. Fiore, D. A. Jaffe, M. J. Prather, + 18 co-authors by alphabetical order including **S. Szopa** - "Intercontinental Impacts of Ozone Pollution on Human Mortality", *Environmental Science & Technology*, **2009**.
26. Reidmiller, D. R., Fiore, A. M., Jaffe + 19 co-authors by alphabetical order including **S. Szopa** – "The influence of foreign vs. North American emissions on surface ozone in the US", *Atmos. Chem. Phys.*, 9, 5027-5042, **2009**.
27. Pison., P. Bousquet, F. Chevallier, **S. Szopa** and D. Hauglustaine - "Multi-species inversion of CH<sub>4</sub>, CO and H<sub>2</sub> emissions from surface measurements" - *Atmos. Chem. Phys.*, 9, 5281-5297, **2009**.
28. Fortems-Cheiney, A., Chevallier, F., Pison, I., Bousquet, P., Carouge, C., Clerbaux, C., Coheur, P.-F., George, M., Hurtmans, D., and **Szopa, S.** (2009): On the capability of IASI measurements to inform about CO surface emissions, *Atmos. Chem. Phys.*, special issue IASI, 9, pp. 8735-8743, SRef-ID: 1680-7324/acp/2009-9-8735.
29. J.E. Williams, M.P. Scheele, P.J.F. van Velthoven, I. Bouarar, K. Law, B. Josse, V-H Peuch, X. Yang, J. Pyle, V. Thouret, B. Barret, C. Liousse, F. Hourdin, **S. Szopa** and A. Cozic, Global Chemistry simulations in the AMMA-MIP Intercomparison project, *Bull. Amer. Meteorol. Soc.* 91, 611-624, **2010**.
30. J.E. Jonson, A. Stohl, A.M. Fiore, P. Hess, **S. Szopa**, O. Wild, G. Zeng, F.J. Dentener, A. Lupu, M.G. Schulz, B.N. Duncan, K. Sudo, P. Wind, M. Schultz, E. Marmer, C. Cuvelier, T.J. Keating, A. Zuber, A. Valdebenito, V. Dorokhov, H. De Backer, J. Davies, G.H. Chen, B. Johnson, D.W. Tarasick, R. Stubi, M.J. Newchurch, P. von der Gathen, W. Steinbrecht and H. Claude – "A multi-model analysis of vertical ozone profiles" , *Atmos. Chem. Phys.*, 10 (12):5759-5783, DOI 10.5194/acp-10-5759-2010, **2010**.
31. B. Koffi, **S. Szopa**, A. Cozic, D. Hauglustaine, and P. van Velthoven. "Present and future impact of aircraft, road traffic and shipping emissions on global tropospheric ozone", *Atmos. Chem. Phys.*, 10, 11681-11705, doi:10.5194/acp-10-11681-2010, **2010**.
32. G. Myhre, K.P. Shine, G. Rädcl, M. Gauss, I.S.A. Isaksen, Q. Tang, M.J. Prather, J.E. Williams, P. van Velthoven, O. Dessens, B. Koffi, **S. Szopa**, P. Hoor, V. Grewe, J. Borken-Kleefeld, T.K. Berntsen and J.S. Fuglestvedt – "Radiative forcing due to changes in ozone and methane caused by the transport sector", *Atmospheric Environment*, Vol 45, 12, January 2011, Pages 387-394.
33. Boynard, M. Beekmann, G. Foret, A. Ung, **S. Szopa**, C. Schmechtig, A. Coman - "Assessment of regional ozone model uncertainty with a physically sound modelling ensemble" - *Atmospheric Environment*, Volume 45, Issue 3, 2011, Pages 784-793, doi:10.1016/j.atmosenv.2010.08.006.
34. P. Bousquet, C. Yver, I. Pison, Y. S. Li, P. J. Rayner, A. Fortems, D. Hauglustaine, **S. Szopa**, P. Peylin, P. Novelli, R. Langenfelds, P. Steele, M. Ramonet, M. Schmidt, P. Foster, C. Morfopoulos, and P. Ciais. "A 3D synthesis inversion of the global hydrogen cycle: implications for the soil uptake flux.". *Geophys. Res.-Atmos.*, 116: Art. No. D01302, DOI: 10.1029/2010JD014599, **2011**.
35. Fortems-Cheiney, F. Chevallier, I. Pison, P. Bousquet, and **S. Szopa**. "Ten years of CO emissions as seen from MOPITT". *J. Geophys. Res.*, 116, D05304, doi:10.1029/2010JD014416., **2011**.
36. P. Bousquet, B. Ringeval, I. Pison, E. J. Dlugokencky, E.-G. Brunke, C. Carouge, F. Chevallier, A. Fortems-Cheiney, C. Frankenberg, D. A. Hauglustaine, P. B. Krummel, R. L. Langenfelds, M. Ramonet, M. Schmidt, L. P. Steele, **S. Szopa**, C. Yver, N. Viovy, and P. Ciais, "Source attribution of the changes in atmospheric methane for 2006-2008". *Atmos. Chem. Phys.*, Volume: 12 Issue: 19 Pages: 9381-9382 DOI: 10.5194/acp-12-9381-2012 11, **2012** .
37. Elias, T., **Szopa, S.**, Zahn, A., Schuck, T., Brenninkmeijer, C., Sprung, D., and Slemr, F.: Acetone variability in the upper troposphere: analysis of CARIBIC observations and LMDz-INCA chemistry-climate model simulations, *Atmos. Chem. Phys.*, 11, 8053-8074, doi:10.5194/acp-11-8053-2011, **2011**.
38. Hodnebrog, Ø., Berntsen, T. K., Dessens, O., Gauss, M., Grewe, V., Isaksen, I. S. A., Koffi, B., Myhre, G., Olivé, D., Prather, M. J., Pyle, J. A., Stordal, F., **Szopa, S.**, Tang, Q., van Velthoven, P., Williams, J. E., and Ødemark, K.: Future impact of non-land based traffic emissions on atmospheric ozone and OH – an optimistic scenario and a possible mitigation strategy, *Atmos. Chem. Phys.*, 11, 11293-11317, doi:10.5194/acp-11-11293-2011, **2011**.

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40. Wilson, R. C., Fleming, Z. L., Monks, P. S., Clain, G., Henne, S., Konovalov, I. B., **Szopa, S.**, and Menut, L.: Have primary emission reduction measures reduced ozone across Europe? An analysis of European rural background ozone trends 1996–2005, *Atmos. Chem. Phys.*, DOI: 10.5194/acp-12-437-2012, **2012**.
41. Klonecki, A., Pommier, M., Clerbaux, C., + 18 *co-authors by alphabetical order including S. Szopa* - Assimilation of IASI satellite CO fields into a global chemistry transport model for validation against aircraft measurements, *Atmospheric Chemistry and Physics*, Vol: 12 I: 10 Pp: 4493-4512, DOI: 10.5194/acp-12-4493-2012, **2012**.
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43. M. Fry, V. Naik, J. J. West, M. D. Schwarzkopf, A. M. Fiore, W. J. Collins, F. J. Dentener, D. T. Shindell, C. Atherton, D. Bergmann, B. N. Duncan, P. Hess, I. A. MacKenzie, E. Marmer, M. Schultz, **S. Szopa**, O. Wild, G. Zeng - The influence of ozone precursor emissions from four world regions on tropospheric composition and radiative climate forcing, *Journal of Geophysical Research-Atmospheres* Vol: 117, DOI: 10.1029/2011JD017134, **2012**.
44. Voldoire, E. Sanchez-Gomez, D. Salas y Méliá, B. Decharme, C. Cassou, S. Sénési, S. Valcke, I. Beau, A. Alias, M. Chevallier, M. Déqué, J. Deshayes, H. Douville, E. Fernandez, G. Madec, E. Maïonnave, M.-P. Moine, S. Planton, D. Saint-Martin, **S. Szopa**, S. Tyteca, R. Alkama, S. Belamari, A. Braun, L. Coquart, F. Chauvin - The CNRM-CM5.1 global climate model: Description and basic evaluation - *Climate Dynamics*, Doi:10.1007/s00382-011-1259-y, **2012**.
45. Fortems-Cheiney, A., Chevallier, F., Pison, I., Bousquet, P., Saunoy, M., **Szopa, S.**, Cressot, C., Kurosu, T. P., Chance, K., and Fried, A.: The formaldehyde budget as seen by a global-scale multi-constraint and multi-species inversion system, *Atmos. Chem. Phys.*, 12, 6699-6721, doi:10.5194/acp-12-6699-2012, **2012**.
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48. Fiore, AM, Naik, V, Spracklen, DV, Steiner, A, Unger, N, Prather, + 22 *co-authors by alphabetical order including S. Szopa*, Global air quality and climate, *CHEMICAL SOCIETY REVIEWS* Volume: 41 Issue: 19 Pages: 6663-6683 DOI: 10.1039/c2cs35095e Published: **2012**.
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