Marc AUBINET Curriculum Vitae

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| **NAME** :  | AUBINET |
| **FIRST NAMES :**  | Marc, Félix, Anne, Ghislain |
| **BIRTH DATE :**  | Brussels, 02 October 1956 |
| **MARITAL STATUS :**   | Married to Pascale SAINTROND Two children: Suzanne (1985) and François (1988). |
| **PROFESSIONAL ADDRESS :**  | University of Liège, Gembloux Agro-Bio Tech2 Passage des Déportés, B-5030 GEMBLOUX, BELGIUME mail : [marc.aubinet@ulg.ac.be](file:///C%3A%5C%5CDocuments%20and%20Settings%5C%5Caubinet.m%5C%5CMes%20documents%5C%5CUsers%5C%5CK.Berghmans%5C%5CAppData%5C%5CLocal%5C%5CTemp%5C%5Cmarc.aubinet%40ulg.ac.be) |

# DIPLOMAS:

* Master in Sciences (Physics)
University of Liège, July 1984, Great Distinction.
* **PhD in Agricultural Sciences**Faculty of Agricultural Science, Gembloux, May 1991, The Greatest Distinction.

# MAIN CURRENT FONCTIONS :

* Retired since 2016.
* Professor, then Ordinary professor, from 2001 to 2016.
* Director of the axis Ecosystem Atmosphere Exchanges (formerly. Unit of Biosystem Physics), from 2001 to 2016.

# FIELD OF EXPERTISE:

**Teaching:** General Physics, Environmental Physics, Modelling Biosystem exchanges, Bioclimatology.

**Research: M**icrometeorology, Ecosystem Atmosphere Exchanges, Eddy covariance methodology, Ecosystem carbon budget.

# PUBLICATIONS:

~ 110 papers in IF journals, 10 books or book chapters (see list in Annex);

**Citations:** over 12500 in SCOPUS; over 20000 in Google Scholar;

**h factor:** 43 in Scopus ; 51 in Google Scholar .

# AWARDS:

* World Meteorological Organization : Gerbier-Mumm Price 2012 (co-award).
* Web of Science : Highly Cited researcher 2000-2012 (domain : Agronomy) (<http://highlycited.com/>).
* American Meteorological Society: Award For Outstanding Achievement In Biometeorology, 2017.

# PhD (CO-)PROMOTIONS

Bernard LONGDOZ (2002), Souleymane TOURE (2002), Dominique PERRIN (2005), Bernard HEINESCH (2007), Christine MOUREAUX (2008), Marie SULEAU (2010), Quentin LAFFINEUR (2012), Pauline BUYSSE (2013), Stéphanie GOFFIN (2014), Elisabeth JEROME (2014), Expédit AGO (2016).

**RESEARCH GROUP/PROJECT COORDINATION:**

* 1996 – 1998: Working group on software inter-comparison and measurement methodology (6 European teams in the frame of EUROFLUX). Led to the publication, in 2000, of the EUROFLUX methodology paper (1800 citations in Google Scholar).
* 2000 – 2003: Task force group on Data Quality (6 European teams in the frame of CARBOEUROFLUX).
* 2004 – 2008: ADVEX group (7 European teams in the frame of CARBOEUROPE). Led to the publication of 11 papers and one special issue in Agricultural and Forest Meteorology).
* 1996 – Present: Vielsalm Terrestrial Observatory: Forest site equipped with Eddy covariance measurements (data requested by several hundreds of teams from all the world, data presented in more than 60 papers).
* 2004 – Present: Lonzée Terrestrial Observatory: Crop site equipped with Eddy covariance measurements (data requested by several hundreds of teams from all the world, data presented in more than 20 papers).
* 2010 – Present: Dorinne Terrestrial Observatory: Grazed grassland site equipped with Eddy covariance measurements (one published paper, 3 submitted papers).

- 2009 – 2011: Coordination (with Dario Papale and Timo Vesala) of the writing of the book: Eddy covariance: A practical guide to measurement and data analysis (over 430 citations in Google Scholar).

- 2013: Coordination of the writing of the ICOS protocol for high frequency concentrations.

- 2013 – Present: Coordination of the network ICOS-Wallonia (3 sites, 7 Walloon teams).

**ORGANISATION AND CHAIR OF INTERNATIONAL WORKSHOPS**

* 1996: 4th EUROFLUX meeting, Antwerpen (Belgique). Organisation in collaboration with the University of Antwerpen.
* 2004: CARBOEUROPE workshop on gap filling and partitioning, Viterbo (Italy), Chair.
* 2004 à 2008 : CARBOEUROPE-IP Advection group meetings : six meetings in Italy, Czech Republic, Ireland, Finland, Germany and Crete. Chair.
* 2006 : ILEAPS meeting “Flux measurement in difficult conditions”, Boulder (Colorado).

Member of steering committee and chair.

* 2006 : International Summer school on eddy covariance, Wépion (Belgium). Organization, coordination, teaching.

2007 : Lessons of ten years of eddy covariance measurements, (in the frame of the attribution of the title of Doctor Honoris Causa to Riccardo Valentini, Gembloux, Belgium). Chair.

* 2008: Final ADVEX conference, Gembloux (Belgium). Organization and Chair.
* 2010 : Chaire Francqui in Gembloux Agro-Bio Tech (invited professor : Philippe Ciais). Organization.
* 2013 : ICOS-France Winter school on eddy covariance, Gembloux (Belgium), organization, coordination and chair.
* 2015 : ICOS workshop on ancillary measurements, Gembloux (Belgium), organization in collaboration with University of Antwerpen.
* From 2017 : co Convener of the session “Air – land interactions”, European Geophysical Union, Vienna.

**INVITED CONFERENCES/TALKS (INTERNATIONAL AUDIENCE)**

* Advanced approaches for evaluating sinks of global warming gases - Global Environment Tsukuba 1999 », Tsukuba (Japan), 1999.
* Unaccounted Flux in Long-term Studies of Carbon and Energy Exchanges, Boulder, Colorado (USA), 2000.
* Invited professor at school AGRHYMET, Niamey, Niger, 2001.
* Invited professor at Université Henry Poincaré, Nancy, France, 2006.
* Flux measurement in difficult conditions, ILEAPS meeting, Boulder, Colorado, 2006.
* Integrating and scaling processes: from plot to landscape ecosystem study, Sateco conference, Gifu, Japan, 2008.
* Water (Hydro) Science seminars, Technical University of Dresden, Germany, 2010.
* Seminar in the frame of the PhD defense of Petra Kroon, Technical University of Delft, Delft, The Netherlands, 2010.
* Informal meeting of the working party on the environment, Belgian presidency of the Council of the European Union, Spa, Belgium, 2010.

**REVIEWS**

* Member of the Commissie voor Toegepaste Biologie, FWO (Belgium), 2000 to 2009.
* Editor for « Agricultural and Forest Meteorology » (2012-2014), 215 treated assignments.
* Member of « Agricultural and Forest Meteorology » editorial board (2010-2012).
* Guest editor for « Agricultural and Forest Meteorology » (2010).
* Subject matter editor pour “Ecological Application” (2008).
* Reviews for Nature, Biogeochemistry, Agricultural and Forest Meteorology, Atmospheric Environment, BASE, Boundary Layer Meteorology, Global Change Biology, Journal of Geophysical Research, Tellus, Theoretical and Applied Climatology, …50 to 100 treated manuscripts.
* Project evaluation for the Natural Environment Research Council (UK).
* Candidate evaluation for the University of Corvallis (Oregon, USA).
* PhD reporter or jury member of about 20 PhD Theses in France, Germany, Benin, The Netherlands and Belgium.

**OTHER PAST FUNCTIONS**

* President of the Department BIOSystem Engineering (2014 - 2016)
* 2013-2014 : President of the ICOS Monitoring System Assembly for Ecosystems
* Vice president of the Unit TERRA, Gembloux Agro-Bio Tech, since 2015.

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Marc Aubinet – List of publications

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​Articles

1. Arriga,N, Rannik, Ü, Aubinet, M, Carrara, A, Vesala,T, Papale, D (2017). Experimental validation of footprint models for eddy covariance CO2 flux measurements above grassland by means of natural and artifi cial tracers. Agricultural and Forest Meteorology 242 75–84.
2. Buysse,P, Bodson, B, Debacq, A, De Ligne, A, Heinesch, B, Manise, T, Moureaux, C, Aubinet, M (2017). Carbon budget measurement over 12 years at a crop production site in thesilty-loam region in Belgium. Agricultural and Forest Meteorology 246 241–255
3. Lognoul, M., Theodorakopoulos, N., Hiel, M.-P., Broux, F., Regaert, D., Heinesch, B., Bodson, B., Vandenbol, M., Aubinet, M.(2017). Impact of tillage on greenhouse gas emissions by an agricultural crop and dynamics of N2O fluxes: Insights from automated closed chamber measurements. Soil & Tillage Research, 167, 80-89.
4. Dumortier, P., Aubinet, M., Beckers, Y., Chopin, H., Debacq, A., Gourlez de la Motte, L., Jérome, E., Wilmus, F., Heinesch,B. (2017). Methane balance of an intensively grazed pasture and estimation of the enteric methane emissions from cattle. Agricultural and Forest Meteorology, 232, 527–535.
5. Mozaffar, A., Schoon, N., Digrado, A., Bachy, A., Delaplace, P., du Jardin, P., Fauconnier, M.-L., Aubinet, M., Heinesch, B., Amelynck, C. (2017). Methanol emissions from maize: Ontogenetic dependence to varying light conditions and guttation as an additional factor constraining the flux. Atmospheric Environment, 152, 405-417.
6. Theodorakopoulos, N., Lognoul, M., Degrune, F., Broux, F., Regaert, D., Muys, C., Heinesch, B., Bodson, B., Aubinet, M.,& Vandenbol, M. (2017). Increased expression of bacterial amoA during an N2O emission peak in an agricultural field. Agriculture, Ecosystems & Environment, 236, 212-220.
7. Soubie,R, Heinesch, B, Granier, A, Aubinet, M, Vincke, C (2016). Evapotranspiration assessment of a mixed temperate forest by fourmethods: Eddy covariance, soil water budget, analytical and model. Agricultural and Forest Meteorology 228–229 191–204
8. Gourlez de la Motte, L., Jérôme, E., Mamadou, O., Bodson, B., Beckers, Y., Heinesch, B., Aubinet, M. (2016). Carbon balance of an intensively grazed grassland in southern Belgium. Agricultural and Forest Meteorology, 228-229, 370-383.
9. Bachy, A., Aubinet, M., Schoon, N., Amelynck, C., Bodson, B., Moureaux, C., & Heinesch, B. (2016). Are BVOC exchanges in agricultural ecosystems overestimated? Insights from fluxes measured in a maize field over a whole growing season. Atmospheric Chemistry and Physics, 16 (8).
10. Aubinet, M., Joly, L., Loustau, D., De Ligne, A., Chopin, H., Cousin, J., Chauvin, N., Decarpenterie, T., Gross, P. (2016). Dimensioning IRGA Gas Sampling System : Laboratory And Field Experiments. *Atmospheric Measurement Technology*, 9, in press.
11. Mamadou, O., Gourlez de la Motte, L., De Ligne, A., Heinesch, B., Aubinet, M. (2016). Sensitivity of the annual net ecosystem exchange to the cospectral model used for high frequency loss corrections at a grazed grassland site. Agricultural and Forest Meteorology, 228-229
12. Ago, E. E., Agbossou, E. K., Ozer, P., & Aubinet, M. (2016). Mesure des flux de CO2 et séquestration de carbone dans les écosystèmes terrestres ouest-africains (Synthèse Bibliographique). *Biotechnology, Agronomy, Society and Environment, 20*(1), 68-82.
13. Ago, E. E., Serça, D., Agbossou, E. K., Galle, S., & Aubinet, M. (2015). Carbon dioxide fluxes from a degraded Woodland in West Arica and their responses to main environmental factors. *Carbon Balance and Management, 10*, DOI 10.1186/s13021-015-0033-6.
14. Goffin, S., Wylock, C., Haut, B., Maier, M., Longdoz, B., & Aubinet, M. (2015). Modeling soil CO2 production and transport to investigate the intra-day variability of surface efflux and soil CO2 concentration measurements in a Scots Pine Forest (Pinus Sylvestris, L.). *Plant and Soil*, 390(1), 195-211.
15. Ago, E. E., Agbossou, E. K., Galle, S., Cohard, J.-M., Heinesch, B., & Aubinet, M. (2014). Long term observations of carbon dioxide exchange over cultivated savanna under a Sudanian climate in Benin (West Africa). *Agricultural and Forest Meteorology, 197*, 13-25.
16. Goffin, S., Aubinet, M., Maier, M., Plain, C., Schack-Kirchner, H., & Longdoz, B. (2014). Characterization of the soil CO2 production and its carbon isotope composition in forest soil layers using the flux-gradient approach. *Agricultural and Forest Meteorology, 188*, 45-57.
17. Jerome, E., Beckers, Y., Bodson, B., Heinesch, B., Moureaux, C., & Aubinet, M. (2014). Impact of grazing on carbon dioxide exchanges in an intensively managed Belgian grassland. *Agriculture, Ecosystems & Environment, 194*, 7-16.
18. Vranken, I., Baudry, J., Aubinet, M., Visser, M., & Bogaert, J. (2014). A review on the use of entropy in landscape ecology: heterogeneity, unpredictability, scale dependence and their links with thermodynamics. *Landscape Ecology,* 30, 51-65.
19. Buysse, P., Schnepf-Kiss, A.-C., Carnol, M., Malchair, S., Roisin, C., & Aubinet, M. (2013). Fifty years of crop residue management have a limited impact on soil heterotrophic respiration. *Agricultural and Forest Meteorology, 180*, 102-111.
20. Simpraga, M., Verbeeck, H., Bloemen, J., Vanhaecke, L., Demarcke, M., Joó, E., Pokorska, O., Amelynck, C., Schoon, N., Dewulf, J., Van Langenhove, H., Heinesch, B., Aubinet, M., & Steppe, K. (2013). Vertical canopy gradient in photosynthesis and monoterpenoid emissions: An insight into the chemistry and physiology behind. *Atmospheric Environment, 80*, 85-95.
21. Laffineur, Q., Aubinet, M., Schoon, N., Amelynck, C., Müller, J.-F., Dewulf, J., Steppe, K., & Heinesch, B. (2013). Impact of diffuse light on isoprene and monoterpene emissions from a mixed temperate forest. *Atmospheric Environment, 46*(74), 385-392.
22. Buysse, P., Goffin, S., Carnol, M., Malchair, S., Debacq, A., Longdoz, B., & Aubinet, M. (2013). Short-term temperature impact on soil heterotrophic respiration in limed agricultural soil samples. *Biogeochemistry, 112*(1-3), 441-455.
23. Buysse, P., Roisin, C., & Aubinet, M. (2013). Fifty years of contrasted residue management of an agricultural crop: impacts on the soil carbon budget and on heterotrophic respiration. *Agriculture, Ecosystems & Environment, 167*, 52-59.
24. Zona, D., Janssens, I. A., Aubinet, M., Gioli, B., Vicca, S., Fichot, R., & Ceulemans, R. (2013). Fluxes of the greenhouse gases (CO2, CH4 and N2O) above a short-rotation poplar plantation after conversion from agricultural land. *Agricultural and Forest Meteorology, 169*, 100-110.
25. Hmimina, G., Dufrêne, E., Pontailler, J.-Y., Delpierre, N., Aubinet, M., Caquet, B., de Grandcourt, A., Burban, B., Flechard, C., Granier, A., Gross, P., Heinesch, B., Longdoz, B., Moureaux, C., Ourcival, J.-M., Rambal, S., Saint André, L., & Soudani, K. (2013). Evaluation of the potential of MODIS satellite data to predict vegetation phenology in different biomes: An investigation using ground-based NDVI measurements. *Remote Sensing of Environment*, (132), 145-158.
26. Laffineur, Q., Aubinet, M., Schoon, N., Amelynck, C., Müller, J.-F., Dewulf, J., Van Langenhove, H., Steppe, K., & Heinesch, B. (2012). Abiotic and biotic control of methanol exchanges in a temperate mixed forest. *Atmospheric Chemistry and Physics, 12*, 577-590.
27. Maier, M., Schack-Kirchner, H., Aubinet, M., Goffin, S., Longdoz, B., & Parent, F. (2012). Turbulence effect on gas transport in three contrasting forest soils. *Soil Science Society of America Journal, 76*, 1518-1528.
28. Niu, S., Fei, S., Yuan, W., Schimel, D., Ammann, C., Arain, A., Arneth, A., Aubinet, M., Barr, A., Beringer, J., Bernhofer, C., Black, T. A., Buchmann, N., Cescatti, A., Chen, J., Davis, K. J., Dellwik, E., Desai, A. R., Etzold, S., François, L., Gianelle, D., Gielen, B., Goldstein, A., Groenendijk, M., Gu, L., & et al. (2012). Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. *New Phytologist, 194*, 775-783.
29. Soudani, K., Hmimina, K., Delpierre, N., Pontailler, J.-Y., Aubinet, M., Bonal, D., Caquet, B., de Grandcourt, A., Burban, B., Flechard, C., Guyon, D., Granier, A., Gross, P., Heinesch, B., Longdoz, B., Loustau, D., Moureaux, C., Ourcival, J.-M., Rambal, S., Saint André, L., & Defrêne, E. (2012). Ground-based Network of NDVI measurements for tracking temporal dynamics of canopy structure and vegetation phenology in different biomes. *Remote Sensing of Environment, 123*, 234-245.
30. Goffin, S., Longdoz, B., & Aubinet, M. (2011). Apport de l’approche multicouche et du signal isotopique pour la compréhension de la respiration du sol en écosystème forestier. *Biotechnology, Agronomy, Society and Environment [=BASE], 15*(4), 575-584.
31. Šimpraga, M., Verbeeck, H., Demarcke, M., Joó, T., Pokorska, O., Amelynck, C., Schoon, N., Dewulf, J., van Langenhove, H., Heinesch, B., Aubinet, M., Laffineur, Q., Müller, J.-F., & Steppe, K. (2011). Clear link between drought stress, photosynthesis and biogenic volatile organic compounds in Fagus sylvatica L. *Atmospheric Environment, 45*(30), 5254-5259.
32. Joó, É., Dewulf, J., Amelynck, C., Schoon, N., Pokorska, O., Šimpraga, M., Steppe, K., Aubinet, M., & van Langenhove, H. (2011). Constitutive versus heat and biotic stress induced BVOC emissions in Pseudotsuga menziesii. *Atmospheric Environment, 45*(22), 3655-3662.
33. Šimpraga, Verbeeck, H., Demarcke, M., Joó, É., Amelynck, C., Schoon, N., Dewulf, J., van Langenhove, H., Heinesch, B., Aubinet, M., Müller, J.-F., & Steppe, K. (2011). Comparing monoterpenoid emissions and net photosynthesis of beech (Fagus sylvatica L.) in controlled and natural conditions. *Atmospheric Environment, 45*(17), 2922-2928.
34. Foken, T., Aubinet, M., Finnigan, J. J., Leclerc, M. Y., Mauder, M., & Pau U, K. T. (2011). Results Of A Panel Discussion About The Energy Balance Closure Correction For Trace Gases. *Bulletin of the American Meteorological Society, 92*(4), 13-18.
35. Dufranne, D., Moureaux, C., Vancutsem, F., Bodson, B., & Aubinet, M. (2011). Comparison of carbon fluxes, growth and productivity of a winter wheat crop in three contrasting growing seasons. *Agriculture, Ecosystems & Environment, 141*, 133-142.
36. Laffineur, Q., Aubinet, M., Schoon, N., Amelynck, C., Müller, J.-F., Dewulf, J., Van Langenhove, H., Steppe, K., Simpraga, M., & Heinesch, B. (2011). Isoprene and monoterpene emissions from a mixed temperate forest. *Atmospheric Environment, 45*, 3157-3168.
37. Stavrakou, T., Guenther, A., Razavi, A., Clarisse, L., Clerbaux, C., Coheur, P.-F., Hurtmans, D., Karagulian, F., De Mazière, M., Vigouroux, C., Amelynck, C., Schoon, N., Laffineur, Q., Heinesch, B., Aubinet, M., Rinsland, C., & Müller, J.-F. (2011). First space-based derivation of the global atmospheric methanol emission fluxes. *Atmospheric Chemistry and Physics, 11*, 4873-4898.
38. Suleau, M., Moureaux, C., Dufranne, D., Buysse, P., Bodson, B., Destain, J.-P., Heinesch, B., Debacq, A., & Aubinet, M. (2011). Respiration of three Belgian crops: Partitioning of total ecosystem respiration in its heterotrophic, above- and below-ground autotrophic components. *Agricultural and Forest Meteorology*, (151), 633-643.
39. Buysse, P., & Aubinet, M. (2010). La respiration hétérotrophe dans les sols agricoles :description des facteurs importants et comparaison de modèles semi-mécanistes existants. *Biotechnology, Agronomy, Society and Environment [=BASE], 14*(4), 707-717.
40. Smith, P., Lanigan, G., Kutsch, W. L., Buchmann, N., Eugster, W., Aubinet, M., Ceschia, E., Béziat, P., Yeluripati, J. B., Osborne, B., Moors, E. J., Brut, A., Wattenbach, M., Saunders, M., & Jones, M. (2010). Measurements necessary for assessing the net ecosystem carbon budget of croplands. *Agriculture, Ecosystems & Environment, 139*(3), 302-315.
41. Wattenbach, M., Sus, O., Vuichard, N., Lehuger, S., Gottschalk, P., Li, L., Leip, A., Williams, M., Tomelleri, E., Kutsch, W. L., Buchmann, N., Eugster, W., Dietiker, D., Aubinet, M., Ceschia, E., Béziat, P., Grünwald, T., Hastings, A., Osborne, B., Ciais, P., Cellier, P., & Smith, P. (2010). The carbon balance of European croplands: A cross-site comparison of simulation models. *Agriculture, Ecosystems & Environment, 139*(3), 419-453.
42. Aubinet, M., & Feigenwinter, C. (2010). Direct CO2 advection measurements and the night flux problem. *Agricultural and Forest Meteorology, 150*(5), 651-654.
43. Aubinet, M., Feigenwinter, C., Heinesch, B., Bernhofer, C., Canepa, E., Lindroth, A., Montagnani, L., Rebmann, C., Sedlak, P., & Van Gorsel, E. (2010). Direct advection measurements do not help to solve the night-time CO2 closure problem: Evidence from three different forests. *Agricultural and Forest Meteorology, 150*(5), 655-664.
44. Feigenwinter, C., Molder, M., Lindroth, A., & Aubinet, M. (2010). Spatiotemporal evolution of CO2 concentration, temperature, and wind field during stable nights at the Norunda forest site. *Agricultural and Forest Meteorology, 150*(5), 692-701.
45. Feigenwinter, C., Montagnani, L., & Aubinet, M. (2010). Plot-scale vertical and horizontal transport of CO2 modified by a persistent slope wind system in and above an alpine forest. *Agricultural and Forest Meteorology, 150*(5), 665-673.
46. Sedlak, P., Aubinet, M., Heinesch, B., Janous, D., Pavelka, M., Potuznikova, K., & Yernaux, M. (2010). Night-time airflow in a forest canopy near a mountain crest. *Agricultural and Forest Meteorology, 150*(5), 736-744.
47. Ceschia, E., Beziat, P., Dejoux, J. F., Aubinet, M., Bernhofer, C., Bodson, B., Buchmann, N., Carrara, A., Cellier, P., Di Tommasi, P., Elbers, J. A., Eugster, W., Grünwald, T., Jacobs, C. M. J., Jans, W. W. P., Jones, M., Kutsch, W., Lanigan, G., Magliulo, E., Marloie, O., Moors, E. J., Moureaux, C., Olioso, A., Osborne, B., Sanz, M. J., Saunders, M., Smith, P., Soegaard, H., & Wattenbach, M. (2010). Management effects on net ecosystem carbon and GHG budgets at European crop sites. *Agriculture, Ecosystems & Environment, 139*, 363-383.
48. De Ligne, A., Heinesch, B., & Aubinet, M. (2010). New Transfer Functions for Correcting Turbulent Water Vapour Fluxes. *Boundary-Layer Meteorology, 137*(2), 205-221.
49. Demarcke, M., Schoon, N., Van Langenhove, H., Dewulf, J., Joo, E., Steppe, K., Simpraga, M., Heinesch, B., Aubinet, M., Amelynck, C., & Muller, J. F. (2010). History effect of light and temperature on monoterpenoid emissions from Fagus sylvatica L. *Atmospheric Environment, 44*(27), 3261-3268.
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