

Liste des publications scientifiques liées au programme CARA du dispositif national de surveillance de la qualité de l'air

Publications ISI:

Long range and local air pollution: what can we learn from chemical speciation of particulate matter at paired sites? (2020). Pandolfi, M., D. Mooibroek, P. Hopke, D. van Pinxteren, X. Querol, A. Alastuey, O. Favez, C. Hüglin, E. Perdrix, V. Riffault, S. Sauvage, E. van der Swaluw, O. Tarasova, A. Colette. *Atmospheric Chemistry and Physics*, 20, 409-429, doi: 10.5194/acp-20-409-2020.

<https://www.atmos-chem-phys.net/20/409/2020/>

Evaluation of receptor and chemical transport models for PM10 source apportionment (2020). Belis, C.A., D. Pernigotti, G. Pirovano, O. Favez, J.-L. Jaffrezo, J. Kuenen, H. Denier Van Der Gon et al. *Atmospheric Environment: X*, 5; doi: <https://doi.org/10.1016/j.aeaoa.2019.100053>.

<https://www.sciencedirect.com/science/article/pii/S2590162119300565?via%3Dihub>

Six-year source apportionment of submicron organic aerosols from near-continuous highly time-resolved measurements at SIRTA (Paris area, France) (2019). Zhang, Y., O. Favez, J.-E. Petit, F. Canonaco, F. Truong, N. Bonnaire, V. Crenn, T. Amodeo, A.S.H. Prévôt, J. Sciare, V. Gros, A. Albinet. *Atmospheric Chemistry and Physics*, 19, 14755-14776, doi: 10.5194/acp-19-14755-2019.

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Comparison of PM10 source profiles at 15 French sites using a harmonized constrained positive matrix factorization approach (2019). Weber, S., D. Salameh, A. Albinet, L. Alleman, A. Waked, J.-L. Besombes, V. Jacob, G. Guillaud, B. Mesbah, B. Rocq, A. Hulin, M. Dominik-Sègue, E. Chrétien, J.-L. Jaffrezo, O. Favez. *Atmosphere*, 10, 310, doi: 10.3390/atmos10060310. <https://www.mdpi.com/2073-4433/10/6/310>

Sources and geographical origins of particulate matter (PM₁₀) in Metz (France) using oxalate as a marker of secondary organic aerosols by positive matrix factorization analysis (2019). Petit, J.E., C. Pallarès, O. Favez, L.Y. Alleman, N. Bonnaire, E. Rivière. *Atmosphere*, 10(7), 370, doi: 10.3390/atmos10070370. <https://www.mdpi.com/2073-4433/10/7/370>

Seasonal variations and chemical predictors of oxidative potential of particulate matter (PM) for 7 urban French sites (2019). Calas A., G. Uzu, J.-L. Besombes, J. Martins, M. Redaelli, S. Weber, A. Charron, A. Albinet, F. Chevrier, G. Brulfert, B. Mesbah, O. Favez, J.-L. Jaffrezo. *Atmosphere*, 10, 698; doi:10.3390/atmos1011069. <https://www.mdpi.com/2073-4433/10/11/698>

Speciation of organic fraction does matter for source apportionment. Part 3: combining offline and online measurements (2019). Srivastava, D., O. Favez, J.-E. Petit, Y. Zhang, U.M. Sofowote, P.K. Hopke, N. Bonnaire, E. Perraudin, V. Gros, E. Villenave, A. Albinet. *Science of the Total Environment*, 690, 944-955, doi: 10.1016/j.scitotenv.2019.06.378.

<https://www.sciencedirect.com/science/article/pii/S0048969719329511>

Arabitol, mannitol, and glucose as tracers of primary biogenic organic aerosol: the influence of environmental factors on ambient air concentrations and spatial distribution over France (2019). Samake, A., J.-L. Jaffrezo, O. Favez, S. Weber, V. Jacob, A. Albinet, V. Riffault, E. Perdrix, A. Waked, B. Golly, D. Salameh, F. Chevrier, D.M. Oliveira, J.-L. Besombes, J.M.F. Martins, N. Bonnaire, S. Conil, A. Charron, T. Canete, P.Y. Robic, G. Guillaud, B. Mesbah, B. Rocq, A. Hulin, S. Lemeur, M. Descheemaeker, E. Chrétien, N. Marchand, G. Uzu. *Atmospheric Chemistry and Physics*, 19, 11013-11030, doi: 10.5194/acp-19-11013-2019. <https://www.atmos-chem-phys.net/19/11013/2019/>

Polyols and glucose particulate species as tracers of primary biogenic organic aerosols at 28 French sites (2019). Samake, A., J.-L. Jaffrezo, O. Favez, S. Weber, V. Jacob, A. Albinet, V. Riffault, E. Perdrix, A. Waked, B. Golly, D. Salameh, F. Chevrier, D.M. Oliveira, N. Bonnaire, J.-L. Besombes, J.M.F. Martins, S. Conil, G. Guillaud, B. Mesbah, B. Rocq, P.Y. Robic, A. Hulin, S. Lemeur, M. Descheemaeker, E. Chrétien, N. Marchand, G. Uzu. *Atmospheric Chemistry and Physics*, 19, 3357-3374, doi: 10.5194/acp-19-3357-2019. <https://www.atmos-chem-phys.net/19/3357/2019/acp-19-3357-2019.pdf>

Evidence of major secondary organic aerosol contribution to lensing effect black carbon absorption enhancement (2018). Zhang, Y., O. Favez, F. Canonaco, D. Liu, G. Mocnik, T. Amodeo, J. Sciare, A.S.H. Prévôt, V. Gros, A. Albinet. Nature Partner Journal - Climate and Atmospheric Science, 1(47), doi: 10.1038/s41612-018-0056-2. <https://www.nature.com/articles/s41612-018-0056-2>

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Sources and atmospheric chemistry of oxy- and nitro-PAH in the ambient air of Grenoble (France) (2017). Tomaz S., J.-L. Jaffrezo, O. Favez, E. Perraudin, E. Villenave, A. Albinet. Atmospheric Environment, 161, 144-154, doi: 10.1016/j.atmosenv.2017.04.042. <https://www.sciencedirect.com/science/article/abs/pii/S1352231017302868>

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Traffic induced particle resuspension in Paris: Emission factor and source contributions (2016). Amato F., O. Favez, M. Pandolfi, A. Alastuey, X. Querol, S. Moukhtar, B. Bruge, S. Verlhac, J.A.G. Orza, N. Bonnaire, T. Le Priol, J.-P. Petit, J. Sciare. Atmospheric Environment, 129, 114-124, doi: 10.1016/j.atmosenv.2016.01.022. <https://www.sciencedirect.com/science/article/abs/pii/S1352231016300309>

Source apportionment of PM10 in a north-western Europe regional urban background site (Lens, France) using positive matrix factorization and including primary biogenic emissions (2014). Waked A., O. Favez, L. Y. Alleman, C. Piot, J.E. Petit, T. Delaunay, E. verlinden, B. Golly, J.L. Besombes, J. L. Jaffrezo, E. Leoz-Garziandia. Atmospheric Chemistry and Physics, 14, 3325-3346, doi: 10.5194/acp-14-3325-2014. <https://www.atmos-chem-phys.net/14/3325/2014/acp-14-3325-2014.pdf>

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Assessing in near real time the impact of the April 2010 Eyjafjallajökull ash plume on air quality (2011). Colette A., O. Favez, F. Meleux, L. Chiappini, M. Haeffelin, Y. Morille, L. Malherbe, A. Papin, B. Bessagnet, L. Menut, E. Leoz, L. Rouil. Atmospheric Environment, 45, 1217-1221, doi: 10.1016/j.atmosenv.2010.09.064. <https://hal-enpc.archives-ouvertes.fr/hal-00681690/file/04-Colette-et-al-Atm-Envir-2011-45-1217-1221.pdf>

Autres publications:

European Guide on Source Apportionment with Receptor Models – revised version (2019). Belis C.A., Favez O., Mircea M., Diapouli E., Manousakas M-I., Vratolis S., Gilardoni S., Paglione M., Decesari S., Mocnik G., Mooibroek D., Salvador P., Takahama S., Vecchi R., Paatero P. EUR 29816, Publications Office of the European Union, 2019 Luxembourg, 2019, ISBN 978-92-76-09001-4, doi: 10.2760/439106, JRC117306.

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Episodes de pollution particulaire en France : quels enseignements tirés des récents épisodes ? (2015). L. Rouil, B. Bessagnet, O. Favez, E. Leoz-Garziandia, F. Méleux. *Pollution atmosphérique*, numéro spécial de mars 2015, 101-114. https://www.lcsqa.org/system/files/ressources/extrait_ineris-pollution_atmospherique_mars_2015.pdf

Impact of a Saharan dust outbreak on PM₁₀ ground levels in Southeastern France (2015). N. Michelot, W. Endlicher, P. Carrega, N. Martin, O. Favez, M. Langner. *Climatologie*, 12, 65-82. http://lodel.irevues.inist.fr/climatologie/docannexe/file/1129/michelot_et_al_climatologie_2015_pages_65_a_82.pdf

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Caractéristiques et origines principales des épisodes de pollution hivernaux aux PM₁₀ en France (2012). O. Favez, J.-E. Petit, B. Bessagnet, F. Méleux, L. Chiappini, S. Lemeur, C. Labartette, C. Chappaz, P.-Y. Guernion, J.-Y. Saison, E. Chrétien, C. Pallares, S. Verlhac, R. Aujay, L. Malherbe, M. Beauchamps, C. Piot, J.-L. Jaffrezo, J.-L. Besombes, J. Sciare, L. Rouil, E. Leoz-Garziandia. *Pollution atmosphérique*, hors-série de novembre 2012.

L'apport des méthodes d'analyse chimique des PM pour la connaissance des sources d'émission (2012). J.-L. Jaffrezo, C. Piot, J.-L. Besombes, N. Marchand, I. El Haddad, O. Favez, G. Brulfert. *Pollution atmosphérique*, hors-série de novembre 2012.