

COMMUNICATIONS PAR AFFICHE (EN LIEN AVEC CLIMIBIO)

2019

1. Hemmer, F., L.C. Labonnote, F. Parol, G. Brogniez, O. Sourdeval, and B. Damiri, Retrieval of cirrus cloud Ice Water Content (IWC) profile from ground-based remote sensing using the synergy of lidar and multispectral infrared radiometry, EGU, Vienne, April 2018
2. LEONARSKI L., LABONNOTE L., VIDOT J. BARAN A., COMPIEGNE M., DUBUISSON P., Ice cloud properties, an information content analysis from high spectral resolution measurements in the infrared : IASI and IASI-NG , Journée des doctorants de l'IREPS. Lille France. 2019
3. Minvielle F., Auriol F., Brogniez C., Catalfamo M., Deroo C., Ferlay N., Henriot N., Sossa Samba M., Metzger J.-M., Portafaix T., P. Da Conceicao, Pignon Y., Validation des produits UV de TROPOMI/S5P avec les mesures UV au sol. Effets radiatifs des nuages fractionnés sur le rayonnement UV au sol, journée scientifique NDACC-France 19 juin 2019.
4. BROUSMICHE D., OCCELLI F., GENIN M., CUNY D., DERAM A., LANIER C., Développement d'indices spatialisés de vulnérabilité et de résilience en santé environnement. Quatrièmes Rencontres nationales de la Recherche sur les Sites et Sols Pollués. Le Beffroi de Montrouge (Portes de Paris), France, 26-27 novembre 2019.
5. BROUSMICHE D., OCCELLI F., GENIN M., CUNY D., DERAM A., LANIER C., Développement d'indices spatialisés de vulnérabilité et de résilience en santé environnement. Colloque de la Société française d'Ecotoxicologie Fondamentale et Appliquée, Lyon, 24-25 Juin 2019.
6. BADRAN G., LEDOUX F., VERDIN A., ABBAS I., GENEVRAY P., CAZIER F., ROUMIE M., LO GUIDICE J.-M., GARÇON G., COURCOT D. Toxicity of quasiultrafine and fine particles: focus on the effects of PM2.5 organic extractable and non-extractable matter fractions, 7th International Symposium on Ultrafine Particles, Brussels, Belgium, 15-16 mai 2019.
7. ABBAS I., BADRAN G., VERDIN A., LEDOUX F., ROUMIÉ M., LO-GUIDICE J.-M., COURCOT D., GARÇON G. Particulate pollution in Lebanon: In-vitro evaluation of PM2.5 organic extractable matter in human bronchial epithelial BEAS-2B cells. 26th International Symposium on Polycyclic Aromatic Compounds (ISPAC), Örebro, Suède, 9-12 septembre 2019.
8. BADRAN G., VERDIN A., GRARE C., LEDOUX F., ROUMIE M., LO-GUICIDE J.-M., COURCOT D., GARÇON G. Activation of NRF2 and AHR signaling pathways and autophagy by ambient fine and quasi-ultrafine particles in human bronchial epithelial BEAS-2B cells. 55th Congress of the European Societies of Toxicology (EUROTOX 2019), Helsinki, Finland, 8-11 septembre 2019
9. Ludovic Lesven, Pratima Bhurtun, David Dumoulin, Gabriel Billon. On the use of passive sampling (DGT) to understand the impact of changes in weather conditions on surface water quality. DGT Conference, Sep 2019, Vienne, Austria. (hal-02302580)

10. Guillaume Trommetter, David Dumoulin, Gabriel Billon. Investigation of rare earth elements diffusion coefficients under environmental conditions. DGT Conference, Sep 2019, Vienne, Austria. <hal-02302575>
11. Gabriel Billon, Melinda George, Aurélie Bouvet, Jean-Noël Ottenwaelder, Emmanuel Bugner, et al.. Passive samplers as tools for better understanding the behavior of pollutants in groundwaters. 10th International Groundwater Quality Conference, Sep 2019, Liège, Belgium. <hal-02304356>
12. Henry Mackeown, Justine Criquet. Fate of iodide in oxidative water treatment. Water Disinfection, By-products and Health, Jul 2019, Mount Holyoke College, South Hadley, United States. <hal-02316374>
13. Lingshuo Meng, Gaoxuan Wang, Patrick Augustin, Fabrice Cazier, Dorothée Dewaele, Marc Fourmentin, Suzanne Crumeyrolle, Benjamin Hanoune, Elsa Dieudonné, Hervé Delbarre, Eric Fertein, Cécile Coeur, Alexandre Tomas, Weidong Chen, Measurement of Aerosol Particles Using Incoherent Broadband Cavity-Enhanced Absorption Spectrometer and Lidar in a Coastal Industrialized City (poster), European Geosciences Union General Assembly 2019, Vienna, Austria, 7-12 April 2019
14. Jingjing WANG, Fengjiao SHEN, Tu TAN, Zhensong CAO, Xiaoming GAO, Pascal JESECK, Yao-Veng TE, Eric FERTEIN, Weidong CHEN, Infrared laser heterodyne radiometers for ground-based measurements of greenhouse gases in the atmospheric column, JSM-Créteil, 21-23 May 2019, France
15. L. Meng, G. Wang, P. Augustin, F. Cazier, D. Dewaele, M. Fourmentin, S. Crumeyrolle, B. Hanoune, E. Dieudonné, H. Delbarre, E. Fertein, C. Coeur, A. Tomas, W. Chen, Measurement of aerosol particles using incoherent broadband cavity-enhanced absorption spectrometer and Lidar in a coastal industrialized city, 38ème édition du colloque annuel du Groupe Français de Cinétique et Photochimie (GFCP), Rennes 6-7 Juin 2019
16. T. Nguyen Ba, E. Fertein, W. Zhao, X. Gao, W. Chen, Long-path Faraday Rotation Spectrometer for OH radical measurement, 41st PIERS, 17-20 June 2019, Rome, Italy
17. D. Santos Mulholland, P. Flament, J. de Jong, N. Mattielli, K. Deboudt: Iron solubility and isotope fractionation of industrial particles during simulated cloud processing. 7ème congrès de la Société Française des Isotopes – SFIS 2019, Orsay, France, November 12-15, 2019.
18. Gaoxuan Wang, Pierre Kulinski, Hongming Yi, Patrice Hubert, Alexandre Deguine, Denis Petitprez, Eric Fertein, Marc Fourmentin, Karine Deboudt, Pascal Flament, Julien M. Rey, Markus W. Sigrist, Dean Venables and Weidong Chen : 3-wavelength photoacoustic spectrophone for filter-free measurement of aerosol particle light absorptio, European Geosciences Union (EGU) General Assembly, Vienne, Austria, 7-12 April 2019

19. LAMOUREUX N., DESGROUX P., Measurements in absolute concentration of NO and NH by using laser-based diagnostics in flames, Workshop ammonia for fueling future energy, Lisbonne, Portugal, Avril 2019
20. LAMOUREUX N., DESGROUX P., In-situ LIF and ex-situ CRDS applied to NO measurements in flames: probe perturbation and absolute quantification, European Combustion Meeting, Lisbonne, Portugal, Avril 2019
21. DESGROUX P., FACCINETTO A., JOURDAIN L., Experimental (and modelling) study of losses impacting size-selected particles, Journées GDR suie, Marseille, 15-17 octobre 2019
22. DESGROUX P., Comment sont formées les nanoparticules de suie ? Comment réduire leurs émissions ? Journée des Avis ENSCL, Villeneuve d'Ascq, 6 février 2019
23. PETITPREZ D., WU J., FACCINETTO A., DESGROUX P., BATUT S., PANGUI E., CAZAUNAU M., MAILLE M., FORMENTI P., DOUSSIN J.F., Les particules de suies sont-elles responsables de la formation des nuages ?, Journée Recherche FST, Villeneuve d'Ascq, 28 juin 2019
24. DO H.Q., MERCIER X., EL BAKALI A., Experimental study on the influence of hydrogen addition on soot precursor formation in CH₄/O₂/N₂ in laminar premixed flames at atmospheric pressure, 9th European Combustion Meeting, 14-17 April 2019, Lisboa, Portugal
25. DO H.Q., MERCIER X., TRAN L.-S., GASNOT L., EL BAKALI A., Experimental investigation of hydrogen impact on atmospheric sooting premixed methane flames H.Q. Do, X. Mercier, L-S. Tran, L. Gasnot, A. El Bakali, 5ème Journée Scientifique du Labex CaPPA, 6 mars 2019, Villeneuve d'Ascq
26. MERCIER X., CARRIVAIN O., IRIMIEA C., FACCINETTO A., THERSSEN E., Experimental Evidences of the Formation of PAH Dimers in a Laminar Sooting Diffusion Flame, 2nde journée scientifique Climibio, 22 mai 2019, Villeneuve d'Ascq
27. MOKRANI N., PANAGET T., BATUT S., PILLIER L., VANHOVE G., Development of a stagnation plate burner as a new support to study cool flame chemistry, ICCK, Orléans 23-27/6/2019
28. MOKRANI N., BATUT S., PILLIER L., HECQUET C., VANHOVE G., Experimental study of premixed ozone-seeded DME/O₂ cool flames on a stagnation plate burner, European Combustion Meeting, Lisbonne, 15-17/4/2019
29. VANHOVE G., Experimental study of premixed ozone-seeded DME/O₂ cool flames on a stagnation plate burner, European Combustion Meeting, Lisbonne, 15-17/4/2019
30. MERGULHÃO C., VANHOVE G., Experimental Study of the Autoignition of Isooctane/anisole Mixtures at Low to Intermediate Temperatures, European Combustion Meeting, Lisbonne, 15-17/4/2019

31. IRIMIEA C., FACCINETTO A., MERCIER X., ORTEGA I.K., NUNS N., THERSSEN E., DESGROUX P., FOCSA C., Laboratory flames under investigation: finding trends in soot nucleation and growth when secondary ion mass spectrometry meets statistical analysis, European Aerosol Conference 2019, 25 30 August 2019, Göteborg (SE)
32. WU J., FACCINETTO A., GRIMONPREZ S., BATUT S., YON J., DESGROUX P., PETITPREZ D., An approach based on Köhler theory for calculating CCN activation curves that considers the dry particle size distribution and morphology, European Aerosol Conference 2019, 25 30 August 2019, Göteborg (SE)
33. WU J., FACCINETTO A., BATUT S., GRIMONPREZ S., PETITPREZ D., DESGROUX P., A new analytical approach for estimating hygroscopic properties of soot aerosols by considering their size distribution and morphologies, 12th International Conference on Carbonaceous Particles in the Atmosphere, 3 6 April 2019, Vienna (AT)
34. WU J., FACCINETTO A., BATUT S., PETITPREZ D., DESGROUX P., CAZAUNAU M., PANGUI E., MAILLE M., DOUSSIN J.F., Impact of the exposure of kerosene soot to O₃ and SO₂ on its hygroscopic properties, 12th International Conference on Carbonaceous Particles in the Atmosphere, 3 6 April 2019, Vienna (AT).
35. CARPENTIER Y., NGO L., DUCA D., NOBLE J.A., VOJKOVIC M., PIRIM C., IRIMIEA C., FACCINETTO A., THERSSEN E., DESGROUX P., YON J., FOCSA C., Methods for the separation of gaseous and particulate-bound species in combustion emissions , 12th International Conference on Carbonaceous Particles in the Atmosphere, 3 6 April 2019, Vienna (AT).
36. HANOUNE B., CLAVIER L., CRUMEYROLLE S., DEGRANDE S., KASSI R., LE PALLEC X., ROUVOY R., Apolline: conception et déploiement d'un réseau de mesure de la qualité de l'air par microcapteurs. AEI 2019 : atelier expérimentation et instrumentation, Villeneuve d'Ascq, 2019.
37. LAMOUREUX N., HESSE S., FAßHEBER N., FRIEDRICHS G., DESGROUX P., NCN absorption cross-section determination ; Re-assessment of the zero-pressure radiative lifetime measurements, Gordon Research Conferences on laser diagnostics, Les Diablerets, Suisse, Juin 2019.
38. FITTSCHEN C., AL AJAMI M., BATUT S., FERRACCI V., ARCHER-NICHOLLS S., ARCHIBALD A. T., SCHOEMAECCKER C. ROOOH (trioxides): A source of Interference for OH measurements in low-NO environments ICCK, Orléans, 2019
39. TRAN L.-S., WULLENKORD J., LI Y., HERBINET O., ZENG M., QI F., KOHSE-HÖINGHAUS K., BATTIN-LECLERC F., Formation of harmful oxygenated components during the oxidation of di-n-butylether as a potential biofuel candidate, 2ème Journée Scientifique Climibio, Lille. 22 mai 2019.

40. Franchomme M., Audouit C., Benchendikh F., Delmer S., Fournier F., Hinnewinkel C., Laboureur M., Litot J.B., Pernin C., Schmitt G., 2019, Connectivité et écologisation des pratiques d'entretien des réseaux électrique très haute tension et ferroviaire du nord de la France. Colloque ITTECOP 2019, Fonctionnalités écologiques et territoriales des infrastructures linéaires de transport et de leurs emprises, Sophia-Antipolis, 5-7 juin 2019.
41. PITREL G., PETIT O., BILLON G., PRYGIEL J., Questionner l'impact des politiques publiques sur la qualité de l'eau de la Marque : Une analyse rétrospective, 2nd journée scientifique Climibio, Villeneuve d'Ascq, 22 mai 2019
42. ECH-CHITE M., Les parcs urbains de la MEL - Du lieu de mémoire à la réinvention d'une nature quotidienne : La diversité des appropriations d'une nature urbanisée et d'un urbain qui se naturalise, 2nd journée scientifique Climibio, Villeneuve d'Ascq, 22 mai 2019
43. PITREL G., PETIT O., BILLON G., PRYGIEL J., Questionner l'impact des politiques publiques sur la qualité de l'eau de la Marque : Une analyse rétrospective, Fête de la nature, Villeneuve d'Ascq, 26 mai 2019
44. ECH-CHITE M., Les parcs urbains de la MEL - Du lieu de mémoire à la réinvention d'une nature quotidienne : La diversité des appropriations d'une nature urbanisée et d'un urbain qui se naturalise, Fête de la nature, Villeneuve d'Ascq, 26 mai 2019
45. MOUFARREJ L., COURCOT D., LEDOUX F., Metal bioaccessibility and oxidative potential of PM_{2.5} in Northern France. *7th International Symposium on Ultrafine Particles*, Bruxelles, Belgique, 15-16 mai 2019
46. BADRAN G., VERDIN A., GRARE C., ABBAS I., LEDOUX F., ROUMIÉ M., GENEVRAY P., LANDKOCZ Y., CAZIER F., LO GUIDICE J.-M., COURCOT D., GARÇON G., Activation of NRF2 and AHR signaling pathways and autophagy by ambient fine and quasi-ultrafine particles in human bronchial epithelial BEAS-2B cells. *55th congress of the European societies of Toxicology (EUROTOX 2019)*, Helsinki, Finland, 8-11 septembre 2019
47. VERDIN A., ACHARD S., TREMOLET G., SEURAT E., DEWAELE D., COURCOT L., COURCOT D., CAZIER F., Chemical characterization of industrial- and road traffic-influenced fine particles (PM_{0.3-2.5}) and impact on xenobiotic metabolizing enzymes gene expression in human reconstituted airway epithelium . *55th congress of the European societies of Toxicology (EUROTOX 2019)*, Helsinki, Finland, 8-11 septembre 2019
48. ACHARD S, SEURAT E, ACHAWI S, SCHANG AL, COURCOT D, VERDIN A, CAZIER F, Biological response modulation of human reconstituted airway epithelium repeatedly exposed to PM_{0.3-2.5}. *55th congress of the European societies of Toxicology (EUROTOX 2019)*, Helsinki, Finland, 8-11 septembre 2019
49. MARTIN P.J., HÉLIOT A., TRÉMOLET G., LANDKOCZ Y., DEWAELE D., CAZIER F., LEDOUX F., COURCOT D., Cellular response and extracellular vesicles characterization of human

macrophages exposed to PM_{2.5}. 55th congress of the European societies of Toxicology (EUROTOX 2019), Helsinki, Finland, 8-11 septembre 2019

50. ALKOUSSA S., BILLET S., COURCOT D., MARTIN P.J., Isolation optimization of extracellular vesicles released by lung epithelial cells exposed to fine particulate matter or its organic extract. *Extracellular Vesicles in Health & Disease - FSEV-2019 Congress*, Nantes, France, 14-15 octobre 2019
51. GENEVRAY P., CAZIER F., DEWAELE D., PUSCA C., VERDIN A., COURCOT D., ACHARD S., Characterization of fine (PM_{2,5}) and ultrafine (PM_{<0,3}) atmospheric particles under industrial or traffic influence in the North of France First step of an In vitro study of their respiratory impact, 29th annual meeting of the society of Environmental Toxicology and Chemistry (SETAC), Helsinki, Finland, 26-30 mai 2019
52. S. DOUIX, H. DOSSMANN, D. DUFLOT, A. GIULIANI, Anion spectroscopy of perfluorocarbons (PFCs), 37th Informal Meeting on Mass Spectrometry, Fiera di Primiero, Italie, 5 – 8 mai 2019.
53. O. OZGUREL, F. RÉAL, D. DUFLOT, M. MASELLA, C. TOUBIN, MD investigation of the organic/inorganic ions selectivity at the air-liquid interface, European Aerosol Conference - JTMS, Paris, 5-6 juin 2019.
54. O. OZGUREL, F. RÉAL, D. DUFLOT, M. MASELLA, C. TOUBIN, MD investigation of the organic/inorganic ions selectivity at the air-liquid interface, European Aerosol Conference - EAC 2019, Gothenburg, Suède, 25 – 30 août 2019.
55. ROOSE, C. TOUBIN, S. DUSANTER, V. RIFFAULT, D. DUFLOT, HO₂ Accommodation on Dicarboxylic Acid Aerosols: A Combined Experimental and Theoretical Study, European Aerosol Conference - EAC 2019, Gothenburg, Suède, 25 – 30 août 2019.
56. PANADES-BARRUETA, R.L., MARTINEZ-NUÑEZ, E., PELAEZ, D. On the Automatic computation of global intermolecular potential energy surfaces for non-covalently bound systems”, IMAMPC 2019 (Madrid)
57. D. Duca, M. Vojkovic, Y. Carpentier, A. Faccinetto, M. Ziskind, C. Pirim, C. Focsa, “An original laser-based method to determine adsorption energies on carbonaceous surfaces”, 15th International Conference on Laser Ablation (COLA), Maui, USA, 8-13 septembre 2019
58. S. Thlajeh, K. Lepot, M. Vojkovic, A. Riboulleau, Y. Carpentier, C. Focsa, “Application of two-step laser mass spectrometry to the characterization of fossil organic matter and prospects for Exobiology”, 19th EANA (European Astrobiology Network Association) Astrobiology Conference, 3-6 septembre 2019, Orleans, France + Best Poster Award
59. D. Duca, Y. Carpentier, M. Vojkovic, A. Boies, M. Rahman, C. Pirim, C. Focsa, “Chemical characterization of size-selected carbonaceous particles emitted by a single cylinder gasoline engine”, Combustion Aerosol Conference, Cambridge, UK, 26-28 juin 2019

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61. R. Ciuraru, J. Kammer, M. Vojkovic, K. Haidar, C. Berger, Y. Carpentier, C. Decuq, F. Lafouge, B. Loubet, S. Houot, D. Petitprez, C. Focsa, « Caractérisation multi-technique de l'aérosol secondaire formé par des produits résiduels organiques », Colloque sur la Chimie Atmosphérique, Lyon, 11-13 juin 2019
62. R. Ciuraru, J. Kammer, M. Vojkovic, C. Berger, Y. Carpentier, C. Decuq, F. Lafouge, S. Houot, B. Loubet, D. Petitprez, C. Focsa, "Role of agricultural organic waste product recycling on volatile organic compounds emission and secondary organic aerosols formation", European Geosciences Union, Vienna, Austria, 7-12 April 2019
63. C. Focsa, D. Duca, M. Vojkovic, Y. Carpentier, A. Faccinetto, M. Ziskind, C. Pirim, "Laser desorption of aromatic compounds from carbonaceous aerosol surrogates and determination of their adsorption energy", 12th International Conference on Carbonaceous Particles in the Atmosphere (ICCPA), 3-6 April 2019, Vienna Austria
64. Y. Carpentier, C. Irimiea, C. Pirim, O.B. Popovicheva, E. D. Kireeva, I.K. Ortega, J. Schwarz, M. Vojtišek-Lom, C. Focsa, "Impacts of engine regime and fuel type on the chemical composition of soot particles in gasoline and diesel vehicle emissions", 12th International Conference on Carbonaceous Particles in the Atmosphere (ICCPA), 3-6 April 2019, Vienna Austria
65. Y. Carpentier, L.D. Ngo, D. Duca, J.A. Noble, M. Vojkovic, C. Pirim, C. Irimiea, A. Faccinetto, E. Therssen, P. Desgroux, J. Yon, C. Focsa, "Methods for the separation of gaseous and particulate-bound species in combustion emissions", 12th International Conference on Carbonaceous Particles in the Atmosphere (ICCPA), 3-6 April 2019, Vienna Austria
66. C.T. Rodriguez, C. Pirim, B. Chazallon, « Capture et échange de CO₂ par cristallisation d'hydrates », Doctoriales, Tournai 4-7 Juin
67. P. CACCIANI, J. COSLEOU, P. CERMAK, High resolution spectroscopy of ammonia with a new laser source around 2 mm, High Resolution Molecular Spectroscopy HRMS, 26th Colloquium, Dijon, France, 26 - 30 Aug, 2019
68. M.-H. MAMMEZ, P. CACCIANI, J. COSLEOU, Spectroscopy of ammonia in the gas phase around 1.45 mm, High Resolution Molecular Spectroscopy HRMS, 25th 20-25 Aug, 2017 Helsinki (Finlande)
69. L.Zou, R. A. Motiyenko, L. Margulès, E.A. Alekseev « Development and performance of Lille's Fourier transform millimeter-wave spectrometer for atmospheric and interstellar molecules », 26th Colloquium on High-Resolution Molecular Spectroscopy, 26-30 Aout 2019, Dijon, France

70. PICHAVANT M., VIGNAL C., KERVOAZE G., DJOUINA M., WAXIN C., ALLEMAN LY., PERDRIX E., GOWER-ROUSSEAU C., GOSSET P., BODY-MALAPEL M., Alteration of lung defense mechanisms after acute and chronic exposure to urban coarse PM. ERS International Congress 2018 (European Respiratory Society).
71. LECLERCQ-DRANSART J., DEMUYNCK S., GRUMIAUX F., LEMIERE S., PERNIN C., LEPRÊTRE A., The woodlice as interesting study models in the context of climate change, 19th International Symposium on Toxicity Assessment, Thessaloniki, Greece, from August 25 to 30, 2019. ([Lien](#))
72. LECLERCQ-DRANSART J., DEMUYNCK S., GRUMIAUX F., LEMIERE S., PERNIN C., LEPRETRE A., Atténuation des effets du changement climatique par les mulchs, 2ème journée scientifique Climibio, Université de Lille - Sciences et technologies, Villeneuve d'Ascq, France, 2019. ([Lien](#))
73. LECLERCQ-DRANSART J., DEMUYNCK S., GRUMIAUX F., LEMIERE S., PERNIN C., LEPRETRE A., Les isopodes terrestres face aux changements climatiques, Journée de lancement du programme CPER Climibio, Lille, France, 6 septembre 2017. ([Lien](#))
74. LECLERCQ-DRANSART J., DEMUYNCK S., GRUMIAUX F., LEMIERE S., PERNIN C., LEPRETRE A., Agir sur la « Trame brune » pour Favoriser la mobilité de la faune du sol; Journée de lancement du programme CPER Climibio, Lille, France, 6 septembre 2017. ([Lien](#))
75. C. DEBEVEC, A. BOURIN, E. PERDRIX, L. ALLEMAN, S. SAUVAGE, PM2.5 chemical speciation: long-term trends and climatology observed at 5 French background monitoring stations, European Aerosol Conference, Göthenburg (Suède), August 25-30, 2019
76. S. DUSANTER, V. MICHOD¹, M. DUNCIANU, S. SKLAVENTI, A. LAHIB, A. TOMAS, P. STEVENS², N. LOCOGE, Développement et déploiement d'outils innovants sur le terrain pour l'étude de la physicochimie atmosphérique , Colloque sur la chimie atmosphérique, Villeurbanne (France), 11-13 juin 2019