

Liste des publications
Equipe de physico-chimie de l'atmosphère
Période 2013-2021

Publications de 2021 (au 30/04/2021, n=12, moyenne estimée = 12 par chercheur Eq. TP par an)

- C. Trocquet, I. Lara-Ibeas, A. Schulz, P. Bernhardt, B. Cormerais, S. Englaro et S. Le Calvé*, *Continuous aldehydes monitoring in primary schools in France: evaluation of emission sources and ventilation practices over 5 weeks*, Atmospheric Pollution Research, 12 (1), 340-351, **2021**. DOI: 10.1016/j.apr.2020.09.005.
- A. Rodriguez-Cuevas, R.D. Brancher, F. Topin, S. Le Calvé, I. Graur*, *Numerical simulation of the sorption phenomena during the transport of VOCs inside a capillary GC column*, Chemical Engineering Science, 224 (3), 116145, **2021**. DOI: 10.1016/j.ces.2021.116445.
- C. Liaud, S. Chouvenc, S. Le Calvé*, *Simultaneous monitoring of particle-bound PAHs inside a Low-Energy School Building and outdoors over two weeks in France*, Atmosphere, 12, 1, **2021**. DOI: 10.3390/atmos12010108.
- T. Mokalled, J. Adjizian Gérard, M. Abboud, C. Liaud, R. Nassreddine, S. Le Calvé, *An Assessment of Indoor Air Quality in the Arrivals Hall of Beirut-Rafic Hariri International Airport: Monitoring of VOCs and NO₂*, Atmosphere, 12 (3), 400, **2021**. DOI:10.3390/atmos12030400.
- S. Khan, D. Newport, S. Le Calvé*, *A Sensitive and Portable deep-UV Absorbance Detector with a Microliter Gas Cell Compatible with Micro GC*, Chemosensors, 9 (4), 63, **2021**. DOI: 10.3390/chemosensors9040063. (Selected by the editors as the issue cover: <https://www.mdpi.com/2227-9040/9>)
- V. Feigenbrugel, S. Le Calvé*, *Temperature Dependence of Henry's Law Constants of Fenpropidin and Pyrimethanil: Impact on their Atmospheric Partitionings and Lifetimes*, Journal of Environmental Science and Public Health, 5 (1), 169-188, **2021**. DOI: 10.26502/jesph.96120124.
- M. Hulin, C. Leroux, A. Mathieu, A. Gouzy, A. Berthet, A. Boivin, B. Bonicelli, C. Chubilleau, A. Hulin, E. LeozGarziandia, L. Mamy, M. Millet, P. Pernot, E. Quivet, A. L. Scelo, M. Merlo, B. Ruelle, C. Bedos, *Monitoring of pesticides in ambient air: prioritization of substances*, Science of the Total Environment, 753, Article n°141722, **2021**, DOI :10.1016/j.scitotenv.2020.141722.
- M. Galmiche, O. Delhomme, Y.-N. François, M. Millet, *Environmental analysis of polar and non-polar Polycyclic Aromatic Compounds in airborne particulate matter, settled dust and soot:Part I: Sampling and sample preparation*, Trends in Analytical Chemistry (TrAC), 134, Article n° 116099, **2021**, DOI: 10.1016/j.trac.2020.116099.
- M. Galmiche, O. Delhomme, Y.-N. François, M. Millet, *Environmental analysis of polar and non-polar Polycyclic Aromatic Compounds in airborne particulate matter, settled dust and soot:Part II: Instrumental analysis and occurrence*, Trends in Analytical Chemistry (TrAC), 134, Article n° 116146, **2021**, DOI: 10.1016/j.trac.2020.116146.
- F. Baroudi, J. Al-Alam, O. Delhomme, S. Chimjarn, Z. Fajloun, M. Millet, *The use of Pinus nigra as a biomonitor of air quality in Lebanon*, Environmental Science and Pollution Research, 28, 10283–10291, **2021**, DOI:10.1007/s11356-020-11954-y.

S. Chimjarn, O. Delhomme, M. Millet, *Temporal distribution and Gas/Particle partitioning of polycyclic aromatic hydrocarbons (PAHs) in the atmosphere of Strasbourg, France*, *Atmosphere*, 21, 337 (16pp), **2021**, DOI: 10.3390/atmos12030337.

J. Zhao, L. Xiao, Z. Xiao, J.V. Morgan, G.R. Osinski, C.R. Neal, S.P.S. Gulick, U. Riller, P. Claeys, S. Zhao, N.C. Prieur, A. Nemchim, S. Yu, E. Chenot, L. Christeson, C.S. Cockell, M.J.L. Coolen, L. Ferrière, C. Gebhardt, K. Goto, H. Jones, D. Kring, J. Lofi, C.M. Lowery, R. Ocampo-Torres, L. Perez-Cruz, A. Pickersgill, M.H. Poelchau, C. Rasmussen, M. Rebolledo-Vieyra, H. Sato, J. Smit, S.M. Tikoo, N. Tomioka, J. Urrutia Fucugauchi, M.T. Whalen, A. Wittmann, K.E. Yamaguchi. *Shock-deformed zircon from the Chicxulub impact crater and implications for cratering process*. *Geology*, 49, **2021**. <https://doi.org/10.1130/G48278.1>.

Publications de 2020 (n=23, moyenne = 7.66 par chercheur Eq. Temps Plein)

S. Khan, S. Le Calvé, D. Newport, *A Review of Optical Interferometry Techniques for VOC Detection*, *Sensors Actuators A Phys.*, 302, 111782, **2020**. DOI: 10.1016/j.sna.2019.111782.

I. Lara-Ibeas, C. Megias-Sayago, A. Rodriguez-Cuevas, R. Ocampo-Torres, B. Louis, S. Colin, S. Le Calvé*, *Adsorbent screening for airborne BTEX analysis and removal*, *J. Environ. Chem. Engineering*, 8 (2), 103563, **2020**. DOI: 10.1016/j.jece.2019.103563.

D. Mariuta, L. Baldas, S. Colin, S. Le Calvé, J. G. Korvink and J. J. Brandner, *Prototyping a Miniaturized Microfluidic Sensor for Real-Time Detection of Airborne Formaldehyde*, *International Journal of Chemical Engineering and Applications*, 11(1), 23-28, **2020**. DOI: 10.18178/ijcea.2020.11.1.774.

C. Megías-Sayago, I. Lara-Ibeas, Q. Wang, S. Le Calvé et B. Louis, *VOCs removal capacity of ZSM-5 zeolites: adsorbent design for near real-time BTEX detection*, *ACS J. Environ. Chem. Engineering*, 8 (2), 103724, **2020**. DOI: 10.1016/j.jece.2020.103724.

I. Lara-Ibeas, C. Megias-Sayago, B. Louis, S. Le Calvé*, *Adsorptive removal of gaseous formaldehyde at realistic concentrations*, *J. Environ. Chem. Engineering*, 8 (4), 103986, **2020**. DOI: 10.1016/j.jece.2020.103986.

D. Mariuta, A. Govindaraji, S. Colin, C. Barrot-Lattes, S. Le Calvé, J. G. Korvink, L. Baldas, J. J. Brandner*, *Optofluidic sensing of airborne formaldehyde: towards on-chip integration*, *Micromachines*, 11, 673, **2020**. DOI: 10.3390/mi11070673.

A. Becker, C. Andrikopoulou, P. Bernhardt, R. Ocampo, C. Trocquet, S. Le Calvé*, *On-line gaseous formaldehyde detection based on a closed-microfluidic-circuit analysis*, *Chemosensors*, 8 (3), 57, **2020**. DOI: 10.3390/chemosensors8030057.

S. Khan, D. Newport, S. Le Calvé*. *Low-Volume PEEK Gas Cell for BTEX Detection using Portable Deep-UV Absorption Spectrophotometry*, *Spectrochimica Acta part A*, 243, 1-7, **2020**. DOI: 10.1016/j.saa.2020.118727.

D. Mariuta, S. Colin, C. Barrot-Lattes, S. Le Calvé, J. G. Korvink, L. Baldas, J. J. Brandner*, *Miniaturization of fluorescence sensing in optofluidic devices*, *Microfluidics and nanofluidics*, 24 (65), 1-28, **2020**. DOI: 10.1007/s10404-020-02371-1.

G. Coelho Rezende, S. Le Calvé, J. Brandner, D. Newport*, *Characterization of a modular microfluidic photoionization detector*, *Sensors and Actuators B: Chemical*, 324, 1-10, **2020**. DOI: 10.1016/j.snb.2020.128667.

- A. Rodríguez-Cuevas, I. Lara-Ibeas, A. Leprince, M. Wolf, S. Le Calvé. *Easy-to-manufacture micro gas preconcentrator integrated in a portable GC for enhanced trace detection of BTEX*, *Sensors and Actuators B*, 324, 128690, **2020**. DOI: 10.1016/j.snb.2020.128690.
- J. Al-Alam, M. Lévy, H. Ba, C. Pham-Huu, M. Millet, *Passive air samplers based on ceramic adsorbent for monitoring of pesticides, polycyclic aromatic hydrocarbons and polychlorinated biphenyls in outdoor air*, *Environmental Technology and Innovation*, 20, Article n°101094, **2020**. DOI: 10.1016/j.eti.2020.101094.
- Y. Jabali, M. Elhoz, M. Millet, *Spatial and temporal distribution of 48 pesticides in the water resources of the basin of Abou Ali River- Northern Lebanon*, *Environmental Science and Pollution Research*, , 27, 17997–18012, **2020**. DOI: 10.1007/s11356-020-08089-5.
- F. Baroudi, J. Al-Alam S. Chimjarn, O. Delhomme, Z. Fajloun, M. Millet, *Conifers as environmental biomonitors: a multi-residue method for the concomitant quantification of 134 pesticides, 16 PAHs and 22 PCBs by LC-MS/MS and GC-MS/MS*, *Microchemical Journal*, 154, Article n° 104593, **2020**. DOI: 10.1016/j.microc.2019.104593.
- F. Baroudi, J. Al-Alam Z. Fajloun, M. Millet, *Snails as tools for the biomonitoring of environmental pollution; A Review*, *Ecological Indicators*, 113, Article n° 106240, **2020**. DOI: 10.1016/j.ecolind.2020.106240.
- M. Lévy, O. Delhomme, J. Al-Alam, M. Millet, *An integrated method coupling Accelerated Solvent Extraction (ASE), Solid-Phase Extraction (SPE) and Solid-Phase Micro Extraction for the quantification by GC and LC-MS/MS of diverse pollutants (Pesticides, PAHs, PCBs), in air*, *Microchemical Journal*, 157, Article n° 104889, **2020**. DOI: 10.1016/j.microc.2020.104889.
- J. Al Alam, F. Baroudi, A. Chbani, Z. Fajloun, M. Millet, *A multi-residue method for pesticides, PAHs and PCBs analysis in snails used as environmental biomonitors*, *Journal of Chromatography A*, 1621, Article n°461006, **2020**. DOI: 10.1016/j.chroma.2020.461006.
- M. Lévy, H. Ba, C. Pallares, C. Pham-Huu, M. Millet, *Comparison and calibration of diverse passive samplers used for the air sampling of pesticides during a regional sampling monitoring campaign*, *Atmospheric Pollution Research*, 11, 1217-1225, **2020**. DOI: 10.1016/j.apr.2020.03.014.
- M.A. Cox, T.M. Erickson, M. Schmieder, R. Chrisoffersen, D.K. Ross, A.J. Cavosie, P.A Bland, D.A. Kring, S.P.S. Gulick, J.V. Morgan, , T. J. Bralower, E. Chenot, G.L. Christeson, P. Claeys, C.S Cockell, M.J.L. Coolen, L. Ferrière, C. Gebhardt, K. Goto, S.L. Green, H. Jones, J. Lofi, C.M. Lowery, R. Ocampo-Torres, L. Perez-Cruz, A.E. Pickersgill, M.H. Poelchau, A.S.P. Rae, C. Rasmussen, H. Sato, J. Smit, S.M. Tikoo, N. Tomioka, J. Urrutia-Fucugauchi, M.T. Whalen, A. Wittmann, L. Xiao, K.E. Yamaguchi. *High-resolution microstructural and compositional analyses of shock deformed apatite from the peak ring of the Chicxulub impact crater*. *Meteoritics & Planetary Science* 55, 8, 1715-1733, **2020**. DOI: 10.1111/maps.13541.
- M.T. Whalen, S.P.S. Gulick, C.M. Lowery, T. J. Bralower, J.V. Morgan, K. Grice, B. Schaefer, J. Smit, J. Ormö, A. Wittmann, D.A. Kring, S. Lyons, S. Goderis, E. Chenot, G.L. Christeson, P. Claeys, C.S Cockell, M.J.L. Coolen, L. Ferrière, C. Gebhardt, K. Goto, S.L. Green, H. Jones, J. Lofi, R. Ocampo-Torres, L. Perez-Cruz, A.E. Pickersgill, M.H. Poelchau, A.S.P. Rae, C. Rasmussen, H. Sato, J. Smit, S.M. Tikoo, N. Tomioka, J. Urrutia-Fucugauchi, L. Xiao, K.E. Yamaguchi. *Winding down the Chicxulub impact: the transition between impact and normal marine sedimentation near ground zero*. *Marine Geology*, 430, 106368, **2020**. DOI: 10.1016/j.margeo.2020.106368.

- D.A. Kring, S.M. Tikoo, M. Schmieder, U. Riller, M. Rebolledo-Vieyra, S.L. Simpson, G.R. Osinski, J. Gattacceca, A. Wittmann, C.M. Verhagen, C.S. Cockell, M.J.L. Coolen, F.J. Longstaffe, S.P.S. Gulick, J.V. Morgan, T.J. Bralower, E. Chenot, G.L. Christeson, P. Claeys, L. Ferrière, C. Gebhardt, K. Goto, S.L. Green, H. Jones, J. Lofi, C.M. Lowery, R. Ocampo-Torres, L. Perez-Cruz, A.E. Pickersgill, M.H. Poelchau, A.S.P. Rae, C. Rasmussen, H. Sato, J. Smit, N. Tomioka, J. Urrutia-Fucugauchi, M.T. Whalen, L. Xiao, K.E. Yamaguchi, *Probing the hydrothermal system of the Chicxulub impact crater*, *Sci. Adv.*, 6, 3053, **2020**. DOI: 10.1126/sciadv.aaz3053.
- J. Zhao, L. Xiao, S.P.S. Gulick, J.V. Morgan, D. Kring, J. Urrutia-Fucugauchi, M. Schmieder, S.J. de Graaff, A. Wittmann, C. H. Ross, P. Claeys, A. Pickersgill, P. Kaskes, S. Goderis, C. Rasmussen, V. Vajda, L. Ferrière, J.G. Feignon, E. Chenot, L. Perez-Cruz, H. Sato, K.E. Yamaguchi, L. Christeson, E. Chenot, P. Claeys, C.S. Cockell, M.J.L. Coolen, C. Gebhardt, K. Goto, H. Jones, J. Lofi, C.M. Lowery, R. Ocampo-Torres, M.H. Poelchau, M. Rebolledo-Vieyra, U. Riller, H. Sato, J. Smit, S.M. Tikoo, N. Tomioka, M.T. Whalen. *Geochemistry, geochronology and petrogenesis of Maya Block granitoids and dykes from the Chicxulub Impact Crater, Gulf of México: Implications for the assembly of Pangea*, *Gondwana Research*, 82, 128–150, **2020**. DOI: 10.1016/j.gr.2019.12.003.
- G.S. Collins, N. Patel, T.M. Davison, A.S.P. Rae, J.V. Morgan, S.P.S. Gulick, G. L. Christeson, E. Chenot, P. Claeys, C.S. Cockell, M.J.L. Coolen, L. Ferrière, C. Gebhardt, K. Goto, H. Jones, D.A. Kring, J. Lofi, C.M. Lowery, R. Ocampo-Torres, L. Perez-Cruz, A.E. Pickersgill, M.H. Poelchau, C. Rasmussen, M. Rebolledo-Vieyra, U. Riller, H. Sato, J. Smit, S.M. Tikoo, N. Tomioka, J. Urrutia-Fucugauchi, M.T. Whalen, A. Wittmann, L. Xiao, K.E. Yamaguchi. *A steeply-inclined trajectory for the Chicxulub Impact*. *Nature communications*, 11, 1480, **2020**. DOI: 10.1038/s41467-020-15269-x.

Publications de 2019 (n=22, moyenne = 7.33 par chercheur Eq. Temps Plein)

- T. Mokalled, J. Adjizian-Gérard, M. Abboud, C. Trocquet, R. Nasreddine, V. Person, S. Le Calvé, *VOC tracers from Aircraft Activities at Beirut Rafic Hariri International Airport*, *Atmospheric Pollution Research*, 10, 537-553, **2019**. DOI: 10.1016/j.apr.2018.09.009.
- T. Mokalled, J. Adjizian Gérard, M. Abboud, C. Liaud, R. Nassreddine, S. Le Calvé, *An Assessment of Indoor Air Quality in the Maintenance Room at Beirut-Rafic Hariri International Airport*, *Atmospheric Pollution Research*, 10, 701-711, **2019**. DOI: 10.1016/j.apr.2018.11.008
- G. Coelho Rezende, S. Le Calvé, J. Brandner, D. Newport, *Micro Photoionization detectors, Sensors and Actuators B: Chemical*, 287, 86-94, **2019**. DOI: 10.1016/j.snb.2019.01.072.
- S. Khan, D. Newport, S. Le Calvé, *Development of a Toluene Detector Based on Deep UV Absorption Spectrophotometry Using Glass and Aluminum Capillary Tube Gas Cells with a LED Source*, *Micromachines*, 10 (3), 193, **2019**. DOI: 10.3390/mi10030193.
- I. Lara-Ibeas, A. Rodríguez-Cuevas, C. Andrikopoulou, V. Person, L. Baldas, S. Colin, S. Le Calvé. *Sub-ppb Level Detection of BTEX Gaseous Mixtures with a Compact Prototype GC Equipped with a Preconcentration Unit*, *Micromachines*, 10 (3), 187, **2019**. DOI: 10.3390/mi10030187.
- F. Noël, C. Serra, S. Le Calvé. *Design of a novel axial gas pulses micromixer and simulations of its mixing abilities via computational fluid dynamics*, *Micromachines*, 10 (3), 205, **2019**. DOI: 10.3390/mi10030205.

- G. C. Rezende, S. Le Calvé, J. J. Brandner and D. Newport, *Micro Milled Microfluidic Photoionization Detector for Volatile Organic Compounds*, *Micromachines*, 10 (4), 228, **2019**. DOI: 10.3390/mi10040228.
- S. Khan, D. Newport, S. Le Calvé*, *Gas Detection Using Portable Deep-UV Absorption Spectrophotometry: A Review*, *Sensors*, 19(23), 5210, **2019**. DOI: 10.3390/s19235210.
- A. Becker, C. Andrikopoulou, P. Bernhardt, R. Ocampo, C. Trocquet, S. Le Calvé*, *On-line gaseous formaldehyde detection by a microfluidic analytical method based on passive uptake through a microporous tube*, *Micromachines*, 10(12), 807, **2019**. DOI: 10.3390/mi10120807.
- C. Trocquet, P. Bernhardt, M. Guglielmino, I. Malandain, C. Liaud, S. Englaro, S. Le Calvé*, *Near Real-Time Monitoring of Formaldehyde in a Low-Energy School Building*, *Atmosphere*, 10(12), 763, **2019**. DOI: 10.3390/atmos10120763.
- J. Al-Alam, Z. Fajloun, A. Chbani, M. Millet, *The use of vegetation, bees, and snails as important tools for the biomonitoring of atmospheric pollution—a review*, *Environmental Science and Pollution Research*, 26, 9391–9408, **2019**. DOI: 10.1007/s11356-019-04388-8.
- R. Béranger, E. Billoir, J.R. Nuckols, J. Blain, M. Millet, M.-L. Bayle, B. Combourieu, Th. Philip, J. Schüz, B. Fervers, *Agricultural and domestic pesticides in house dust from different agricultural areas in France*, *Environmental Science and Pollution Research*, 26, 19632–19645, **2019**. DOI: 10.1007/s11356-019-05313-9.
- J. Al-Alam, Z. Fajloun, A. Chbani, M. Millet, *Determination of 16 PAHs and 22 PCBs in honey samples originated from different region of Lebanon and used as environmental biomonitors sentinel*, *Journal of Environmental Science and Health, Part A*, 54(1), 9-15, **2019**. DOI: 10.1080/10934529.2018.1500782.
- Y. Jabali, M. Elhoz, M. Millet, *Determination of 48 pesticides in water by using DI-SPME coupled to GC/MS*, *Microchemical Journal*, 147, 83-92, **2019**. DOI: 10.1016/j.microc.2019.03.004.
- M. Millet, Chapter 10 : sampling and analysis of pesticides in the atmosphere (pp 301-328). *Analysis of pesticides in food and environmental samples*. J.L. Tadeo Ed., CRC press (**2019**), ISBN: 978-1-138-48603-4. DOI: 10.1201/9781351047081.
- D.A. Davault, J.P. Guillemin, M. Millet, F. Eymery, M. Hulin, M. Merlo, *Prosulfocarb at center stage!*, *Environmental Science and Pollution Research*, **2019**. DOI: 10.1007/s11356-019-06928-8.
- S.P.S. Gulick, T.J. Bralower, J.O.B. Hall, K. Grice, B. Schaeffer, S. Lyons, K.H. Freeman, J.V. Morgan, N. Artemieva, P. Kaskes, S.J. de Graaff, M.T. Whalen, G.S. Collins, S.M. Tikoo, C.. Verhagen, G.L. Christeson, P. Claeys, M.J.L. Coolen, S. Goderis, K. Goto, R.A.F. Grieve, N. McCall, G.R. Osinski, A.S.P. Rae, U. Riller, J. Smit, V. Vajda, A. Wittmann, , E. Chenot, C.S. Cockell, L. Ferriere, C. Gebhardt, S.L. Green, H. Jones, D.A. Kring, E. LeBer, J. Lofi, C.M. Lowery, R. Ocampo-Torres, L. Perez-Cruz, A.E. Pickersgill, M.H. Poelchau, C. Rasmussen, M. Rebolledo-Vieyra, D. Schmitt, N. Tomioka, J. Urrutia-Fucugauchi, L. Xiao, K.E. Yamaguchi. *The first day of the Cenozoic*. *PNAS*, 116, 39, 19342-19351, **2019**. DOI: 10.1073/pnas.1909479116.
- C. Rasmussen, D.F. Stockli, C.H. Rossa, A. Pickersgill, S.P. Gulick, M. Schmieder, G.L. Christeson, A. Wittmann, D.A. Kring, J.V. Morgan, C. M. Lowery, E. Chenot, P. Claeys, C. Cockell, M. J. L. Coolen, L. Ferriere, C. Gebhardt, K. Goto, S. Green, H. Jones, J. Lofi, R. Ocampo-Torres, L. Perez-Cruz, M. H. Poelchau, A. S. P. Rae, M. Rebolledo-Vieyra, U. Riller, H. Sato, J. Smit, S. M. Tikoo, N. Tomioka, J. Urrutia-Fucugauchi, M. Whalen, L. Xiao, K.E. Yamaguchi. *U-Pb memory behavior in Chicxulub's peak*

ring – Applying U-Pb depth profiling to shocked zircon. *Chemical Geology*, 525, 356–367, **2019**. DOI: 10.1016/j.chemgeo.2019.07.029.

- C. M. Lowery, J. V. Morgan, S. P. S. Gulick, T. J. Bralower, G. L. Christeson, E. Chenot, P. Claeys, C. Cockell, M. J. L. Coolen, L. Ferriere, C. Gebhardt, K. Goto, S. Green, H. Jones, D. A. Kring, J. Lofi, C. Mellett, R. Ocampo-Torres, L. Perez-Cruz, A. Pickersgill, M. H. Poelchau, A. S. P. Rae, C. Rasmussen, M. Rebolledo-Vieyra, U. Riller, H. Sato, J. Smit, S. M. Tikoo, N. Tomioka, J. Urrutia-Fucugauchi, M. Whalen, A. Wittmann, L. Xiao, K.E. Yamaguchi, *Ocean drilling perspectives on meteorite impacts*, *Oceanography*, (32)1, 120-134, **2019**. DOI: 10.5670/oceanog.2019.133.
- J. Urrutia-Fucugauchi, L. Perez-Cruz, J. Morgan, S. Gulick, A. Wittmann, J. Lofi, E. Chenot, G. Christeson, P. Claeys, C. Cockell, M. J. L. Coolen, L. Ferriere, C. Gebhardt, K. Goto, H. Jones, D.A. Kring, C. Lowery, C. Mellett, R. Ocampo-Torres, A. Pickersgill, M. Poelchau, A. Rae, C. Rasmussen, M. Rebolledo-Vieyra, U. Riller, H. Sato, J. Smit, S. Tikoo-Shantz, N. Tomioka, M. Whalen, L. Xiao, K.E. Yamaguchi, T. Bralower, G.S. Collins, *Peering inside the peak ring of the Chicxulub impact crater-its nature and formation mechanism*, *Geology Today* 35 (2), 68-72, **2019**. DOI: 10.1111/gto.12261.
- A.S.P. Rae, G.S. Collins, M.H. Poelchau, U. Riller, T.M. Davison, R.A.F. Grieve, G.R. Osinski, J.V. Morgan, E. Chenot, G.L. Christeson, P. Claeys, C.S. Cockell, M.J.L. Coolen, L. Ferriere, C. Gebhardt, K. Goto, S.P.S. Gulick, H. Jones, D.A. Kring, J. Lofi, C.M. Lowery, R. Ocampo-Torres, L. Perez-Cruz, A.E. Pickersgill, C. Rasmussen, M. Rebolledo-Vieyra, H. Sato, J. Smit, S.M. Tikoo, N. Tomioka, J. Urrutia-Fucugauchi, M.T. Whalen, A. Wittmann, L. Xiao, K.E. Yamaguchi, *Stress-strain evolution during peak-ring formation: A case study of the Chicxulub Impact Structure*, *The Journal of Geophysical Research Planets*. Wiley-Blackwell, 124 (2), 396-417, **2019**. DOI: 10.1029/2018JE005821.
- N.E. Timms, M.A. Pearce, T.M. Erickson, A.J. Cavosie, A.S.P. Rae, J. Wheeler, A. Wittmann, L. Ferriere, M.H. Poelchau, N. Tomioka, G.S. Collins, S.P.S. Gulick, C. Rasmussen, J.V. Morgan, E. Chenot, G.L. Christeson, P. Claeys, C.S. Cockell, M.J.L. Coolen, C. Gebhardt, K. Goto, S. Green, H. Jones, D.A. Kring, J. Lofi, C.M. Lowery, R. Ocampo-Torres, L. Perez-Cruz, A.E. Pickersgill, M. Rebolledo-Vieyra, U. Riller, H. Sato, J. Smit, S.M. Tikoo, J. Urrutia-Fucugauchi, M.T. Whalen, L. Xiao, K.E. Yamaguchi. *New shock microstructures in titanite (CaTiSiO₅) from the peak ring of the Chicxulub impact structure, Mexico*, *Contrib. Mineral Petrol*, 174, 38, **2019**. DOI: 10.1007/s00410-019-1565-7.

Publications de 2018 (n=13, moyenne = 4.33 par chercheur Eq. Temps Plein)

- T. Mokalled, S. Le Calvé, N. Badaro-Salibaa, M. Abboud, R. Zaaroura, W. Farah, J. Adjizian-Gérard, *Identifying the impact of Beirut Airport activities on local air quality - Part I: Emissions inventory of NO₂ and VOC*, *Atmos. Envir.*, 187, 435-444, **2018**. DOI: 10.1016/j.atmosenv.2018.04.036.
- I. Lara-Ibeas, C. Trocquet, R. Nasreddine, C. Andrikopoulou, V. Person, B. Cormerais, S. Englaro, S. Le Calvé, *BTEX near real-time monitoring in two primary schools in La Rochelle, France*, *Air Quality, Atmosphere & Health*, 11, 1091–1107, **2018**. DOI: 10.1007/s11869-018-0611-3.
- V. Lucaire, J.-J. Schwartz, O. Delhomme, R. Ocampo-Torres, M. Millet, *A sensitive method using SPME pre-concentration for the quantification of aromatic amines in indoor air*, *Analytical and Bioanalytical Chemistry*, 410(7), 1955-1963, **2018**.
- H. Toumi, M. Boumaiza, M. Millet, Cl. M. Radetski, B. I. Camara, V. Felten, J.-F. Masfaraud, J.-F. Féraud, *Binary mixtures ecotoxicity of malathion and deltamethrin to Daphnia magna (Crustacea, Cladocera)*, *Environmental Science and Pollution Research*, 25, 17781–17788, **2018**.

- Y. Samir Jabaly, M. El-Hoz, M. Millet, *Optimization of a gas chromatography-Ion Trap Tandem mass spectrometry (GC-ITMS/MS) method for the determination of 16 Polycyclic Aromatic Hydrocarbons (PAHs) in water by solid-phase microextraction*, Euro-Mediterranean Journal for Environmental Integration, 3, Article 24, **2018**.
- M. Lévy, J. Al-Alam, C. Ridacker, S. Massemin, M. Millet, *The use of XAD[®]-2 passive air samplers for monitoring environmental trends of PAHs, PCBs and pesticides in three different sites in Strasbourg and its vicinity (east of France)*, Atmospheric Environment, 195, 12-23, **2018**.
- J. Al-Alam, Z. Fajloun, A. Chbani, M. Millet, *Determination of 16 PAHs and 22 PCBs in honey samples originated from different region of Lebanon and used as environmental biomonitors sentinel*, Journal of Environmental Science and Health, Part A, 10, 1-7, **2018**.
- G. L. Christeson, S. P. S. Gulick, J. V. Morgan, C. Gebhardt, D. A. Kring, E. Le Ber, J. Lofi, C. Nixon, M. H. Poelchau, A. S. P. Rae, M. Rebolledo-Vieyra, U. Riller, D. R. Schmitt, A. Wittmann, T. J. Bralower, E. Chenot, P. Claeys, C. S. Cockell, M. J. L. Coolen, L. Ferriere, S. Green, K. Goto, H. Jones, C. M. Lowery, C. Mellett, R. Ocampo-Torres, L. Perez-Cruz, A. E. Pickersgill, C. Rasmussen, H. Sato, J. Smit, S. M. Tikoo, N. Tomioka, J. Urrutia-Fucugauchi, M. T. Whalen, L. Xiao, and K. E. Yamaguchi, *Extraordinary rocks from the peak ring of the Chicxulub impact crater: P-wave velocity, density and porosity measurements from IODP/ICDP expedition 364*, Earth and Planetary Science Letters, 495, 1-11, **2018**. DOI: 10.1016/j.epsl.2018.05.013.
- V. Vargas, J. Castillo, R. Ocampo-Torres, Ch-P. Lienneman, B. Broussiere, *Surface modification of SiO₂ nanoparticles to increase asphaltene adsorption*, Petroleum Science and Technology 36 (8), 618-624, **2018**. DOI: 10.1080/10916466.2018.1440300.
- C.M. Lowery, T.J. Bralower, J.D. Owens, F.J. Rodriguez-Tovar, H. Jones, J. Smit, M.T. Whalen, P. Claeys, K. Farley, S.P.S. Gulick, J.V. Morgan, S. Green, E. Chenot, G.L. Christeson, C.S. Cockell, M.J.L. Coolen, L. Ferriere, C. Gebhardt, K. Goto, D. A. Kring, J. Lofi, R. Ocampo-Torres, L. Perez-Cruz, A. E. Pickersgill, M. H. Poelchau, A. S. P. Rae, C. Rasmussen, M. Rebolledo-Vieyra, U. Riller, H. Sato, S. M. Tikoo, N. Tomioka, J. Urrutia-Fucugauchi, J. Vellekoop, A. Wittmann, L. Xiao, K. E. Yamaguchi, and W. Zylberman, L., *Rapid recovery of life at ground zero of the end-Cretaceous mass extinction*, Nature, 558, 288-291, **2018**. DOI: 10.1038/s41586-018-0163-6.
- U. Riller, M. H. Poelchau, A. S. P. Rae, F. M. Schulte, G. S. Collins, H. J. Melosh, J. V. Morgan, S. P. S. Gulick, J. Lofi, A. Diaw, N. Mccall, D. A. Kring, S. Green, E. Chenot, G. L. Christeson, P. Claeys, C. S. Cockell, M. J. L. Coolen, L. Ferriere, C. Gebhardt, K. Goto, H. Jones, L. Xiao, C. M. Lowery, R. Ocampo-Torres, L. Perez-Cruz, A. E. Pickersgill, C. Rasmussen, M. Rebolledo-Vieyra, H. Sato, J. Smit, S. M. Tikoo, N. Tomioka, M. T. Whalen, A. Wittmann, J. Urrutia-Fucugauchi, J. Vellekoop, and T. J. Bralower, *Rock fluidization during peak-ring formation of large impact structures*, Nature, 562, 511-518, **2018**. DOI: 10.1038/s41586-018-0607-z.
- J. Lofi, D. Smith, C. Delahunty, E. Le Ber, L. Brun, G. Henry, J. Paris, S. Tikoo, W. Zylberman, P. A. Pezard, B. Celerier, D. R. Schmitt, C. Nixon, S. P. S. Gulick, J. V. Morgan, E. Chenot, G. L. Christeson, P. Claeys, C. S. Cockell, M. J. L. Coolen, L. Ferriere, C. Gebhardt, K. Goto, S. Green, H. Jones, D. A. Kring, C.M. Lowery, C. Mellett, R. Ocampo-Torres, L. Perez-Cruz, A. E. Pickersgill, M. Poelchau, A. S. P. Rae, C. Rasmussen, M. Rebolledo-Vieyra, U. Riller, H. Sato, J. Smit, N. Tomioka, J. Urrutia-Fucugauchi, M. T. Whalen, A. Wittmann, L. Xiao, K. E. Yamaguchi, T. J. Bralower, *Drilling-induced and logging-related features illustrated from IODP Expedition 364 downhole logs and borehole imaging tools*, Scientific Drilling, 24, 1-13, **2018**. DOI: 10.5194/sd-24-1-2018.

U. Riller, M. H. Poelchau, A. S. P. Rae, F. M. Schulte, G. S. Collins, H. J. Melosh, J. V. Morgan, S. P. S. Gulick, J. Lofi, A. Diaw, N. Mccall, D. A. Kring, S. Green, E. Chenot, G. L. Christeson, P. Claeys, C. S. Cockell, M. J. L. Coolen, L. Ferriere, C. Gebhardt, K. Goto, H. Jones, L. Xiao, C. M. Lowery, R. Ocampo-Torres, L. Perez-Cruz, A. E. Pickersgill, C. Rasmussen, M. Rebolledo-Vieyra, H. Sato, J. Smit, S. M. Tikoo, N. Tomioka, M. T. Whalen, A. Wittmann, J. Urrutia-Fucugauchi, J. Vellekoop, and T. J. Bralower, *Erratum to: Rock fluidization during peak-ring formation of large impact structures*, *Nature*, 564, E26, **2018**. DOI: 10.1038/s41586-018-0748-0.

Publications de 2017 (n=17, moyenne = 5.66 par chercheur Eq. Temps Plein)

M. Guglielmino A. Allouch, Ch. A. Serra, S. Le Calvé, *Development of microfluidic analytical method for on-line gaseous formaldehyde detection*, *Sensors and Actuators B Chemical*, 243, 963–970, **2017**. <http://dx.doi.org/10.1016/j.snb.2016.11.093>.

M. Guglielmino, C. Trocquet, Ch. A. Serra, S. Le Calvé, *On-line gaseous Formaldehyde detection by a microfluidic analytical method based on simultaneous uptake and derivatization in a temperature controlled annular flow*, *Talanta*, 72, 102-108, **2017**. doi:10.1016/j.talanta.2017.05.038.

A. Allouch, M. Guglielmino, Ch. A. Serra, S. Le Calvé, *Optofluidic fluorescence cell for the detection of low concentration toxic gases*, *Sensors and Actuators B: Chemical*, 255, 3441-3346, **2017**. <https://doi.org/10.1016/j.snb.2017.09.174>.

J. Al-Alam, Z. Fajloun, A. Chbani , M. Millet, *The use of conifers needles as biomonitors candidates for the study of temporal air pollution variation in Strasbourg region*, *Chemosphere*, 168, 1411-1421, **2017**.

J. Al-Alam, L. Bom, Z. Fajloun, A. Chbani , M. Millet, *Coupling HPLC with UV detection and Flame Atomic Absorption Spectroscopy for the analysis and identification of dithiocarbamates fungicides in vegetable matrices*, *Journal of Chromatographic Science*, 55 (4): 429-435, **2017**.

A.X.R. Corrêa, R.C. Testolin, M.M. Torres, S. Cotellet, J.-J. Schwartz, M. Millet, C.M. Radetski, *Ecotoxicity assessment of particulate matter emitted from heavy-duty diesel-powered vehicles: is the pH of the leaching process important to represent environmental leaching conditions?*, *Environmental Science and Pollution Research*, 24(10), 9399-9406, **2017**.

C. Liaud, J.-J. Schwartz, R. Ocampo, O. Delhomme, M. Millet, *Temporal variations of atmospheric PAHs in an urban area (Strasbourg, France) by using long duration High-Volume sampling*, *Polycyclic Aromatic Compounds*, 37 (2-3), 122-127, **2017**.

A. Sonnette, M. Millet, R. Ocampo, L. Alleman, P. Coddeville, *Tenax-TA spiking approach of thermal desorption coupled to GC-MSMS for the quantification of PAHs in indoor air and dust*, *Polycyclic Aromatic Compounds*, 37 (2-3), 170-177, **2017**.

M. Lévy, E. Fournier, Y. Heyrich, M. Millet, *Coupling ASE, SPE and SPME for the extraction and quantification of PAH in passive samplers and biological materials (pine needles)*, *Polycyclic Aromatic Compounds*, 37 (2-3), 178-188, **2017**.

C. Liaud, J.-J. Schwartz, M. Millet, *Comparison of atmospheric concentrations of current-used pesticides and lindane between urban and rural areas during intensive application period in Alsace (France) by using XAD-2® based passive samplers*, *Journal of Environmental Science and Health, Part B*, 52(7), 458-465, **2017**.

- J. Al-Alam, Z. Fajloun, A. Chbani, M. Millet, *A multi-residue method for the analysis of 90 pesticides, 16 PAHs and 22 PCBs in honey using QuEChERS-SPME*, Analytical and Bioanalytical Chemistry, 409, 5157-5169, **2017**.
- J. Gasperi, C. Sébastien, V. Ruban, M. Delamain, S. Percot, L. Wiest, C. Mirande, E. Caupos, D. Demare, M. Diallo Kesso, M. Saad, J.J. Schwartz, P. Dubois, C. Fratta, H. Wolff, R. Moilleron, G. Chebbo, C. Cren, M. Millet, S. Barraud, M.-C. Gromaire, *Contamination des eaux pluviales par les micropolluants : avancées du projet INOGEV (Micropollutant in stormwater: findings of the Inogevresearch program)*, Techniques, Sciences Méthodes (TSM), 7-8, 51-70, 2017.
- J. Al-Alam, Z. Fajloun, A. Chbani, M. Millet, *The use of honey as environmental biomonitor of pesticides contamination in Lebanon*, Euro-Mediterranean Journal for Environmental Integration, 2, Article 23 (pp. 2-7), **2017**.
- M. Lefrancq, S. Payraudeau, B. Guyot, M. Millet, G. Imfeld, *Degradation and transport of the chiral herbicide S-metolachlor at the catchment scale: combining observation scales and analytical approaches*, Environmental science and Technology, 51 (22), 13231-13240, **2017**.
- V. Vargas, J. Castillo, R. Ocampo Torres, B. Broussiere, Ch-Ph. Lienneman, *Development of a chromatographic methodology for the separation and quantification of V, Ni and S compounds in petroleum products*, Fuel Processing Technology, 162, 37-44, **2017**. DOI: 10.1016/j.fuproc.2017.03.27.
- N. Artemieva, J. Morgan, S. P. S. Gulick, E. Chenot, G. L. Christeson, P. Claeys, C. S. Cockell, M. J. L. Coolen, L. Ferrière, C. Gebhardt, K. Goto, S. Green, H. Jones, D. A. Kring, J. Lofi, C. M. Lowery, R. Ocampo-Torres, L. Perez-Cruz, A. E. Pickersgill, M. Poelchau, A. S. P. Rae, C. Rasmussen, M. Rebolledo-Vieyra, U. Riller, H. Sato, J. Smit, S. M. Tikoo, N. Tomioka, J. Urrutia-Fucugauchi, M. T. Whalen, A. Wittmann, L. Xiao, K. E. Yamaguchi, W. Zylberman, G. S. Collins and T. J. Bralower, *Quantifying the release of climate-active gases by large meteorite with a case study of Chicxulub*, Geophysical Research Letters, 44, 10180-10188, **2017**. DOI: 10.1002/2017GL074879.
- D.A. Kring, Ph. Claeys, S.P.S. Gulick, J.V. Morgan, G.S. Collins, T. Bralower, E. Chenot, G. Christeson, C. Cockell, M.J.L. Coolen, L. Ferriere, C. Genhardt, K. Goto, H. Jones, J. Lofi, C. Lowery, C. Mellett, R. Ocampo-Torres, L. Perez-Cruz, A. Pickersgill, M. Pöelchau, A. Rae, C. Rasmussen, M. Rebolledo-Vieyra, U. Riller, H. Sato, J. Smit, S.M. Tikoo, N. Tomioka, J. Urrutia-Fucugauchi, M. Whalen, A. Wittmann, L. Xiao, K.E. Yamaguchi, W. Zylberman, *Chicxulub and the exploration of large peak-ring impact craters thorough scientific drilling*, GSA Today 27 (10), 4-8, **2017**. DOI: 10.1130/GSATG352A.1.

Publications de 2016 (n=14, moyenne = 4.66 par chercheur Eq. Temps Plein)

- R. Nasreddine, V. Person, C. Serra, S. Le Calvé*, *Development of a novel portable miniaturized GC for near real-time low-level detection of BTEX*, Sensors and Actuators B Chemical, 224, 159-169, **2016**.
- R. Nasreddine, V. Person, C. Serra, C. Schoemaeker, S. Le Calvé*, *Portable novel micro-device for BTEX real-time monitoring: assessment during a field campaign in a low consumption energy junior high school classroom*, Atmos. Envir., 126, 211-217, **2016**.
- M. Rizk, M. Verrielle, S. Dusanter, C. Schoemaeker, S. Le Calvé, N. Locoge*, *Fast sorption measurements of volatile organic compounds on building materials: Part 1 - Methodology developed for field applications*, Building and Environment, 99, 200-209, **2016**.

- M. Rizk, M. Verrielle, S. Dusanter, C. Schoemaeker, S. Le Calvé, N. Locoge*, *Fast Sorption Measurements of VOCs on Building Materials: Part 2 - Comparison between FLEC and CLIMPAQ Methods*, Building and Environment, 99, 239–251, **2016**.
- M. Rizk, M. Verrielle, M. Mendez, N. Blond, S. Dusanter, C. Schoemaeker, P. Blondeau, S. Le Calvé, N. Locoge*, *Data on comparison between FLEC and CLIMPAQ methods used for fast sorption measurements of VOCs on building materials*, Data in Brief 7(C), **2016**.
- H. Fathallah, V. Lecuire, E. Rondeau, S. Le Calvé, *Smart Badge for Monitoring Formaldehyde Exposure Concentration*, In book: Sustainable Ecological Engineering Design, pp.111-123, **2016**.
- E. Maillard, J. Lange, S. Schreiber, J. Dollinger, B. Herbstritt, M. Millet, G. Imfeld, *Dissipation of hydrological tracers and the herbicide S-metolachlor in batch and continuous-flow wetlands*, Chemosphere, 144, 2489-2496, **2016**.
- C. Raeppl, G. Salquebre, M. Millet, B.M.R. Appenzeller, *Comparison of hair pesticides contamination of inhabitants from contrasted homes*, Science Total Environment, 544, 845-852, **2016**.
- A. Lopez, M. Millet, Cl. Coscolla, V. Yusa, *Retrospective screening of pesticide metabolites in ambient air using liquid chromatography coupled to high-resolution mass spectrometry*, Talanta, 150, .27-36, **2016**.
- A. X. R. Corrêa, S. Cotellet, M. Millet, C. A. Somensi, Th. M. Wagner, C. M. Radetski, *Genotoxicity assessment of particulate matter emitted from heavy-duty diesel-powered vehicles using in vivo Vicia faba micronucleus test*, Ecotoxicology and Environmental Safety, 127, 199-204, **2016**.
- H. Mokbel, E. Jamal Al Dine, A. Elmoll, C. Liaud, M. Millet, *Simultaneous analysis of organochlorine pesticides and polychlorobiphenyls in air samples by using Accelerated Solvent Extraction (ASE) and Solid Phase Micro-Extraction (SPME) coupled to gas chromatography dual electron capture detection*, Environmental Science and Pollution Research, 23, 8053-8063, **2016**.
- S. Percot, V. Ruban, P. Rouspard, D. Maro, M. Millet, *A new method to assess the contribution of atmospheric deposition to stormwater metal load in a small urban catchment*, Water, Air and Soil Pollution, 227, 180, **2016**.
- C. Liaud, M. Brucher, Cl. Schummer, Cl. Coscollà, H. Wolff, J.-J. Schwartz, V. Yusà, M. Millet, *Application of long duration high-volume sampling coupled to SPME-GC-MS/MS for the assessment of airborne pesticides variability in an urban area (Strasbourg, France) during agricultural application*, Journal of Environmental Science and Health, Part B, 51, 703-714, **2016**.
- J.V. Morgan, S. Gulick, T. Bralower, E. Chenot, G. Christeson, P. Claeys, C. Cockell, G.S. Collins, M.J.L. Coolen, L. Ferriere, C. Gebhardt, K. Goto, H. Jones, D.A. Kring, E. Le Ber, J. Lofi, X. Long, C. Lowery, C. Mellett, R. Ocampo-Torres, G.R. Osinski, L. Perez-Cruz, A. Pickersgill, M. Pölchau, A. Rae, C. Rasmussen, M. Rebolledo-Vieyra, U. Riller, H. Sato, D.R. Schmitt, J. Smit, S. Tikoo, N. Tomioka, J. Urrutia-Fucugauchi, M. Whalen, A. Wittmann, K. Yamaguchi, W. Zylberman. *The formation of peak rings in large impact craters*, Science, 354, 6314, 878-882, **2016**. DOI: 10.1126/science.aah6561.

Publications de 2015(n=14, moyenne = 4.66 par chercheur Eq. Temps Plein)

- C. Liaud, M. Millet, S. Le Calvé*, *Development of an analytical method to quantify traces of Particle-bound PAHs in air*, Talanta, 131, 386-394, **2015**.

- S. Azizi, G. Ulrich, M. Guglielmino, S. Le Calvé, J. P. Hagon, A. Harriman*, R. Ziessel*, *Photo-induced Proton Transfer Promoted by Peripheral Subunits for Some Hantzsch Esters*, J. Phys. Chem. A, 119 (1), 39–49, **2015**.
- M. Rizk, M. Verrièle, M. Mendez, S. Dusanter, C. Schoemaeker, S. Le Calvé, N. Locoge, *In-situ measurements of sorption parameters with a field and laboratory emission cell (FLEC): A comparison to the test emission chamber method*, WIT Transactions on Ecology and the Environment; 198, 329-335, **2015**.
- P. Garra, C. Maschowski, C. Liaud, A. Dierterlen, G. Trouvé, S. Le Calvé, J.L. Jaffrezo, G. Leysens, C. Schönnenbeck, S. Hohler, R. Gieré, *A novel approach to estimate total PAH contribution to particulate Matter from biomass burning using fluorescence microscopy*, Aerosol Science & Technology, 49, 1160-1169, **2015**.
- C. Raepfel, B.M.R. Appenzeller, M. Millet, *Analysis of seven pyrethroids biocides and their synergist in indoor air by thermal-desorption gas chromatography/mass spectrometry after sampling on Tenax TA® passive tubes*, Talanta, 131, 309-314, **2015**.
- H. Toumi, M. Boumaiza, M. Millet, Cl. M. Radetski, V. Felten, J.-F. Férard, *Can acetylcholinesterase be used as a biomarker to detect deltamethrin (pyrethrinoids insecticide) exposure with diverse strains of Daphnia magna (Crustacea, Cladocera)?*, Chemosphere, 120, 351-356, **2015**.
- H. Toumi, M. Boumaiza, M. Millet, Cl. M. Radetski, B. I. Camara, V. Felten, J.-F. Férard, *Acute and chronic effects of an endocrine disruptor, malathion (organophosphorous pesticide), on three strains of Daphnia magna (Crustacea, Cladocera)*, Journal of Environmental Science and Health Part B : Pesticides, Food Contaminants, and Agricultural Waste, 50, 34-44, **2015**.
- C. Raepfel, M. Fabritius, M. Nief, B.M.R. Appenzeller, O. Briand, L. Tuduri M. Millet, *Analysis of airborne pesticides from different chemical classes adsorbed on Radiello Tenax passive tubes by thermal-desorption-GC/MS*, Environmental science and Pollution Research, 22, 2726-2734, **2015**.
- O. Elsayed, E. Maillard, S. Vuillemier, M. Millet, G. Imfeld, *Degradation of chloroacetanilide herbicides and bacterial community composition in lab-scale wetlands*, Science of the Total Environment, 520, 22-231, **2015**.
- V. Yusà, M. Millet, Cl. Coscollà, O. Pardo, M. Roca, *Occurrence of biomarkers of pesticide exposure in non-invasive human specimens*, Chemosphere, 139, 91-108, **2015**.
- J. Al-Alam, Z. Fajloun, A. Chbani, M. Millet, *Contribution to the Food Products Analysis; Research and Hemolytic Effect Evaluation of some Pesticides Used in Lebanon*, Journal of Environmental Science and Health, Part B, 50 (11), 788-796, **2015**.
- V. Yusà, M. Millet, Cl. Coscollà, M. Roca, *Analytical methods for human biomonitoring of pesticides*, Analytica Chimica Acta, 891, 15-31, **2015**.
- C.A. Somensi, A.L.F. Souza, E.L. Simionatto, P. Gaspareto, S.M. Almeida, M. Millet, C.M. Radetski, *Evaluation of the efficiency of ozonolysis and ozonolysis/sonolysis treatments for the denaturation of genetic material present in hospital wastewaters*, Journal of Environmental Management, 162, 74-80, **2015**.
- E. Jamal Al Dine, H. Mokbel, A. Elmoll, S. Massemin, S. Vuillemier, J. Toufaily, H. Hanieh, M. Millet, *Concomitant evaluation of atmospheric levels of polychlorinated biphenyls, organochlorine*

pesticides and polycyclic aromatic hydrocarbons in Strasbourg (France) using pine needle passive samplers, Environmental Science and Pollution Research, 22, 17850-17859, **2015**.

Publications de 2014 (n=9, moyenne = 3.00 par chercheur Eq. Temps Plein)

- C. Liaud, R. Nasreddine, N. Nguyen, S. Le Calvé*, *Experimental study of a transportable GC-PID and two thermo-desorption based methods coupled to FID and MS detection to assess BTEX exposure at sub-ppb level in air*, Talanta, 127, 33-42, **2014**.
- M. Guglielmino*, A. Allouch, P. Bernhardt, Ch. A. Serra, S. Le Calvé, *Développement d'une nouvelle méthode analytique microfluidique pour la détection et la quantification du méthanal gazeux*, Actualité chimique, 390, 1-2, **2014**.
- C. Liaud, T. Dintzer, G. Trouvé, V. Tschamber, S. Le Calvé*, *Particle-bound PAHs quantification using a 3-stages Cascade Impactor in French indoor environments*, Environ. Pollution, 195C, 64-72, **2014**.
- Cl. Schummer, B. M. Appenzeller, M. Millet, *Monitoring of spatial and temporal variations of Polycyclic aromatic Hydrocarbons (PAHs) in the atmosphere of southern Luxembourg using XAD-2 resin based passive samplers*, Environmental Science and Pollution Research, 21, 2098-2107, **2014**.
- C. Raeppl, M. Fabritius, M. Nief, B.M.R. Appenzeller, M. Millet, *Coupling ASE, silylation and SPME-GC/MS for the analysis of current-used pesticides in atmosphere*, Talanta, 121, 24-29, **2014**.
- M. Lefrancq, S. Payraudeau, A. Joaquin Garcia Verdu, E. Maillard, M. Millet, G. Imfeld, *Transport of cyazofamid and kresoxim methyl in runoff at the plot and catchment scales*, Environmental Science and Pollution Research, 21(7), 4871-4882, **2014**.
- J. Gasperi, C. Sebastian, V. Ruban, S. Percot, L. Wiest, C. Mirande, E. Caupos, D. Demare, M. Diallo Kessoo, M. Saad, J-J.Schwartz, P. Dubois, C. Fratta, H. Wolff, R. Moilleron, G. Chebbo, C. Cren, M. Millet, S. Barraud, M.C.Gromaire, *Micropollutant contamination of urban stormwater: new insights based on an extended French dataset*, Environmental Science and Pollution Research, 21(8), 5267-5283, **2014**.
- V. Yusà, Cl. Coscollà, M. Millet, *New screening approach to risk assessment of pesticides in ambient air. A pilot study in rural area of Spain*, Atmospheric Environment, 96, 322-330, **2014**.
- M. Espinosa, U.S. Pacheco, F. Leyte, R. Ocampo, *Separation and identification of porphyrin biomarkers from a heavy crude oil Zaap-1 offshore well, Sonda de Campeche, México*, Journal of Porphyrins and Phthalocyanines 07/2014; 18(07):542-551, **2014**.
-

Publications de 2013 (n=8, moyenne = 2.66 par chercheur Eq. Temps Plein)

- A. Allouch, M. Guglielmino, P. Bernhardt, Ch. A. Serra*, S. Le Calvé*, *Portable, miniature, fast and high sensitive near real-time analyzers: formaldehyde detection*, Sensors and Actuators B: chemistry, 181, 551-558, **2013**.
- A. Allouch, S. Le Calvé*, Ch. A. Serra*, *Portable, miniature, fast and high sensitive real-time analyzers: BTEX detection*, Sensors and Actuators B Chemical, 82, 446-452, **2013**.
- M. Lefrancq, G. Imfeld, S. Payraudeau, M. Millet, *Kresoxim methyl deposition, drift and runoff in a vineyard catchment*, Science of the Total Environment, 442, 503-508, **2013**.

- L. Janke, A.O.S. Lima, M. Millet, C.M. Radetski, *Development and application of a methodology for a clean development mechanism to avoid methane emissions in closed landfills*, Environmental Technology, 34(8), 2607-2616, **2013**.
- F. Gueguen, P. Stille, M. Millet, *Optimisation and application of accelerated solvent extraction and flash chromatography for quantification of PCBs in tree barks and XAD-2 passive samplers using GC-ECD with dual columns*, Talanta, 111 (15), 140-146, **2013**.
- S. Percot, V. Ruban, P. Rouspard, D. Maro, M. Millet, *Beryllium-7 as a tracer of metals, pesticides and polycyclic aromatic hydrocarbons in urban aerosol in Nantes, France*, Atmospheric Environment, 74, 338-345, **2013**.
- F. Gueguen, M. Millet, P. Stille, *Persistent organic pollutants in the atmosphere from urban and industrial environments in the Rhine Valley: PCBs, PCDD/Fs*, Environmental Science and Pollution Research, 20, 3852-3862, 2013
- H. Toumi, M. Boumaiza, M. Millet, Cl. M. Radetski, V. Felten, C. Fouque, J.-F. Férard, *Effects of deltamethrin (pyrethroid insecticide) on growth, reproduction, embryonic development and sex differentiation in two strains of Daphnia magna (Crustacea, Cladocera)*, Science of The Total Environment, 458, 47-53, **2013**.