

PUBLICATIONS (Peer-reviewed journals)

* Author in charge of the correspondence.

2025

P123 G. R. Guerrero Porras, A. Brison, A. Becker, S. Le Calvé, M. David, G. Ulrich, V. Mazan, M. Schmutz, A. Bigo-Simon, D. Mertz, C. Kiefer, A. Bencomo Martínez, C. Rodríguez Tanty, A. M. Díaz García, C. Hureau*, M. Sablón Carrazana*, S. Bégin-Colin*, *Targeting of β -Amyloid Peptide Fibers, a Biomarker of Alzheimer's Disease, by Designing Specifically Functionalized Iron Oxide Nanoparticles*, ACS Appl. Nano Mater., 8, 43, 20822–20834, **2025**. DOI: 10.1021/acsanm.5c03459

P122 J. Vaz-Ramos, S. Le Calvé, S. Bégin-Colin*, Polycyclic aromatic hydrocarbons in water environments: Impact, legislation, depollution processes and challenges, and magnetic iron oxide/graphene-based nanocomposites as promising adsorbent solutions, Journal of Hazardous Materials, 137726, 490, **2025**. DOI: 10.1016/j.jhazmat.2025.137726.

P121 A. Grandjean, A. Becker, M. Mascles, F. Amiet, J.-P. Amiet, D. Bazin, S. Le Calvé*, Development of a transportable High-Performance Liquid Chromatograph with Ultraviolet detection and a method for the rapid analysis of 13 carbonyl compounds hydrazones, Journal of Chromatography Open, 7, 100201, **2025**. DOI: 10.1016/j.jcoa.2024.100201.

2024

P120 A. Grandjean, A. Becker, C. Kustner, M. Wolf, C. Sutter, R. Severac, J.-P. Amiet, D. Bazin, S. Le Calvé*, *Portable temperature-controlled permeation device for the generation of formaldehyde gas standard*, Microchemical journal, 206, 111544, **2024**. DOI: 10.1016/j.microc.2024.111544.

P119 J. Vaz-Ramos, T. Lucante, J.-M. Greneche, C. Leuvrey, V. Papaefthymiou, S. Zafeiratos, A. Carton, D. Bégin, S. Le Calvé, S. Bégin-Colin*, *Impact of Tannic Acid on Iron Oxide Nanoclusters Synthesized by a Polyol Solvothermal Method*, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 689, 133658, **2024**. DOI: 10.2139/ssrn.4683656.

P118 M. Galmiche, O. Delhomme, S. Le Calvé, Y.-N. François, M. Millet, High levels of polycyclic aromatic compounds in outdoor and indoor PM10 of an urban residential environment during a winter pollution event in Strasbourg, France, Air Quality, Atmosphere & Health, 17, 737-755, **2024**. DOI:10.1007/s11869-023-01476-0.

2023

P117 M. Galmiche, O. Delhomme, S. Le Calvé, Y.-N. François, M. Millet, High levels of polycyclic aromatic compounds in outdoor and indoor PM10 of an urban residential environment during a winter pollution event in Strasbourg, France, Air Quality, Atmosphere & Health, **2023**. DOI:10.1007/s11869-023-01476-0.

P116 J. Vaz-Ramos, M. Mascles, A. Becker, D. Bourgain, A. Grandjean, S. Bégin-Colin, F. Amiet, D. Bazin, S. Le Calvé*, *Development of an Online Instrument for Continuous Gaseous PAH Quantification: Laboratory Evaluation and Comparison with The*

Offline Reference UHPLC-Fluorescence Method, Chemosensors, 11, 496, **2023**. DOI: 10.3390/chemosensors11090496.

- P115** J. Vaz-Ramos, D. Bégin, P. Duenas-Ramirez, A. Becker, M. Galmiche, M. Millet, S. Bégin-Colin*, S. Le Calvé*, *Magnetic few-layers graphene composites for the highly efficient removal of benzo(a)pyrene from water*, Environmental Science: nano, 10, 1660-1675, **2023**. DOI: 10.1039/D3EN00047H.
- P114** C. Trocquet, I. Lara-Ibeas, A. Becker, A. Schulz, P. Bernhardt, V. Person, B. Cormerais, S. Englaro et S. Le Calvé*, *Continuous real-time monitoring of formaldehyde over 5 weeks in two French primary schools: identification of the relevant time resolution and the most appropriate ventilation scenario*, Air Quality, Atmosphere & Health, 16, 1091–1115, **2023**. DOI: 10.1007/s11869-023-01328-x.
- P113** P. Duenas Ramirez, C. Lee, R. Fedderwitz, A. Regina Clavijo de Souza, D. Pires Porto Barbosa, M. Julliot, J. Vaz-Ramos, D. Begin, S. Le Calvé, A. Zalowski, P. Choquet, M. Aparecida Godoy Soler, D. Mertz, P. Kofinas, Y. Piao, S. Bégin-Colin, *Phosphate capture enhancement using designed iron oxide-based nanostructures*, Nanomaterials, 13 (3), 587, **2023**. DOI: 10.3390/nano13030587.
-

2022

- P112** F. Ramadhan Nursanto, J. Vaz-Ramos, O. Delhomme, S. Bégin, S. Le Calvé*, *Simultaneous monitoring of outdoor PAHs and particles in French peri-urban site during winter Saharan dust event*, Atmosphere, 13 (9), 1435, **2022**. DOI: 10.3390/atmos13091435.
- P111** T. Mokalled*, S. Le Calvé, N. Badaro-Salibaa, M. Abboud, R. Zaarour, W. Farah, J. Adjizian-Gérard, *Atmospheric Dispersion Modelling of Gaseous Emissions from Beirut—International Airport Activities*, AIMS Environmental Science, 9(5), 553-572 **2022**. DOI: 10.3934/environsci.2022033.
- P110** A. Grandjean*, D. Bazin, F. Amiet, S. Le Calvé, *Comparison of two Analytical Systems for Continuous Monitoring of ppb to ppm-levels of Formaldehyde in Air*, Chemical Engineering Transactions, 95, 67-72, **2022**. DOI: 10.3303/CET2295012.
- P109** A. Becker, N. Israfilov, E. Ehrstein, I. Lara-Ibeas, J.-M. Planeix, B. Louis, S. Le Calvé*, *Adsorption of gaseous formaldehyde on Y zeolites and on Metal-Organic Frameworks*, Microporous and Mesoporous Materials, 343, 112136, **2022**. DOI: 10.1016/j.micromeso.2022.112136.
- P108** A. Becker, N. Lohmann, C. Serra, S. Le Calvé*, *Development of a Portable and Modular Gas Generator: Application to Formaldehyde Analysis*, Chemosensors, 10, 131, **2022**. DOI: 10.3390/chemosensors10040131.
-

2021

- P107** I. Lara-Ibeas, A. Rodriguez-Cuevas, S. Le Calvé*, *Recent developments and trends in miniaturized gas preconcentrators for portable VOC detection: a review*, Sensors and Actuators B, 346, 130449, **2021**. DOI: 10.1016/j.snb.2021.130449.
- P106** F. Noël, C. Serra, C. Trocquet, S. Le Calvé*, *Experimental validation of a novel generator of gas mixtures based on axial gas pulses micromixer*, Micromachines, 12, 715, **2021**. DOI: 10.3390/mi12060715.
- P105** V. Feigenbrugel, S. Le Calvé*, *Temperature Dependence of Henry's Law Constants of Fenpropidin and Pyrimethanil: Impact on their Atmospheric Partitionnings and*

Lifetimes, Journal of Environmental Science and Public Health, 5 (1), 169-188, **2021**. DOI: 10.26502/jesph.96120124.

- P104** 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>)
- P103** 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.
- P102** C. Liaud, S. Chouvinc, 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.
- P101** 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.
- P100** 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.

2020

- P99** 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.
- P98** 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.
- P97** 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.
- P96** 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.
- P95** 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.
- P94** 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.
- P93** 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.

- P92** 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
- P91** 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
- P90** 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.
- P89** 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.
-

2019

- P88** 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.
- P87** 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.
- P86** 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.
- P85** G. Coelho 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.
- P84** 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
- P83** 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.
- P82** 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.
- P81** 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.
- P80** 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.

- P79** 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.
-

2018

- P78** 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, **2018**. DOI: 10.1007/s11869-018-0611-3.
- P77** 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.
- P76** 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, **2018**. DOI: 10.1016/j.snb.2017.09.174.
- P75** I. Lara-Ibeas, C. Andrikopoulou, V. Person, A. Sharifi, D. Valougeorgis, S. Colin, S. Le Calvé, *Conception and development of microfabricated elements for microfluidic analytical devices*, Multidisciplinary Digital Publishing Institute Proceedings, 8, 841, **2018**. DOI:10.3390/proceedings1080841.
- P74** S. Le Calvé, C. Trocquet, P. Bernhardt, *A Novel Microfluidic Formaldehyde Microanalyser for Continuous Real-Time Monitoring in Indoor Air: Analytical Development and Validation*, Multidisciplinary Digital Publishing Institute Proceedings, 8, 740, **2018**. DOI:10.3390/proceedings1080740.
-

2017

- P73** 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.
- P72** 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**. DOI: 10.1016/j.snb.2016.11.093.
-

2016

- P71** 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**. DOI: 10.1007/978-3-319-32646-7_9.
- P70** 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, 518-523, **2016**. DOI: 10.1016/j.dib.2016.02.072.
- P69** 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**, DOI: 10.1016/j.buildenv.2015.12.016.

- P68** 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*, Data in Brief, 6, 953-958, **2016**. DOI: 10.1016/j.dib.2016.01.011.
- P67** 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**, DOI: 10.1016/j.buildenv.2015.12.017.
- P66** 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**, DOI: 10.1016/j.atmosenv.2015.11.005.
- P65** 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**. DOI: 10.1016/j.snb.2015.09.077.
-

2015

- P64** P. Garra, C. Maschowski, C. Liaud, A. Dierterlen, G. Trouvé, S. Le Calvé, J.L. Jaffrezo, G. Leyssens, 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**. DOI: 10.1080/02786826.2015.1107181.
- P63** M. Rizk, M. Verrielle, 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**. DOI: 10.2495/AIR150281.
- P62** 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, J. Phys. Chem. A, 119 (1), 39–49, **2015**. DOI: 10.1021/jp5078246.
- P61** 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. DOI: 10.1016/j.envpol.2014.08.007. **2015**.
-

2014

- P60** 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**.
- P59** C. Liaud, M. Millet, S. Le Calvé*, *Development of an analytical method to quantify traces of Particle-bound PAHs in air*, Talanta, DOI: 10.1016/j.talanta.2014.05.027, **2014**.
- P58** C. Liaud, 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**. DOI: 10.1016/j.talanta.2014.04.001

2013

- P57** A. Allouch, S. Le Calvé*, Ch. A. Serra*, *Portable, miniature, fast and high sensitive real-time analyzers: BTEX detection*, Sensors and Actuators B Chemical, 182, 446-452, **2013**. DOI: 10.1016/j.snb.2013.03.010.
- P56** 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**. DOI: 10.1016/j.snb.2013.02.043.
- P55** P.E. Kastner, S. Le Calvé, W. Zheng, A. Casset, F. Pons*. A dynamic system for single and repeated exposure of airway epithelial cells to gaseous pollutants. Toxicology In Vitro, 27, 632-640, **2013**. DOI: 10.1016/j.tiv.2012.11.011.
-

2012

- P54** A. Ait Taleb, A. Saghir, A. El Hammadi, S. Le Calvé, L. El Maimouni, *Atmospheric Levels of Formaldehyde, Acetaldehyde and Benzaldehyde in an Industrial Site, Anza (Northwest of Agadir, Morocco)*, Journal of Environmental Science and Engineering, 1, 776, **2012**.
-

2011

- P53** L. allou, L. El Maimouni, S. Le Calvé*, *Henry's Law Constant measurements for formaldehyde and benzaldehyde as a function of temperature and water composition*, Atmos. Environ., Atmos. Environ., 45, 2991-2998, **2011**. DOI: 10.1016/j.atmosenv.2010.05.044.
- P52** Muñoz A, Le Person A., Le Calvé S., Mellouki A, Borrás E, Daële V, Vera T., *Studies on atmospheric degradation of diazinon in the EUPHORE simulation chamber*, Chemosphere, 85(5), 724-30, **2011**. DOI: 10.1016/j.chemosphere.2011.06.044.
- P51** PE Kastner, S Le Calvé, A Casset, W Zheng, F Pons, *Exposure of airway epithelial cells in culture to a mixture of gaseous pollutants: Impact on cell integrity*, Toxicology Letters, 205, S123, **2011**.
- P50** P.E. Kastner, S. Le Calvé, L Diss, V. Sauveplane, R. Franke, L. Schreiber, F. Pinot * *Specific accumulation of CYP9A1 transcripts after exposure to gaseous benzaldehyde: induction of lauric acid ω -hydroxylase activity in Vicia sativa exposed to atmospheric pollutants*, Environ. Research, 111, 37-44, **2011**. DOI: 10.1016/j.envres.2010.09.014.
-

2010

- P49** M. Petitjean, M. Darvas, S. Le Calvé *, P. Jedlovszky, S. Picaud*, *Adsorption of Hydroxyacetone on pure ice surfaces*, Chem. Phys. Chem., 11, 3921-3927, **2010**. DOI: 10.1002/cphc.201000629.
- P48** L. Poulain*, Y. Katrib, E. Isikli, Y. Liu, H. Wortham, Ph. Mirabel, S. Le Calvé, A. Monod, *In-cloud multiphase behaviour of acetone in the troposphere: gas uptake, Henry's law equilibrium and aqueous phase photooxidation*, Chemosphere, 81, 312-320, **2010**. DOI: 10.1016/j.chemosphere.2010.07.032.
- P47** M. Petitjean, G. Hantal, C. Chauvin, Ph. Mirabel, S. Le Calvé *, P.N.M. Hoang, S. Picaud*, P. Jedlovszky*, *Adsorption of Benzaldehyde at the Surface of Ice, Studied by*

Experimental Method and Computer Simulation, Langmuir, 26, 9596-9606, **2010**. DOI: 10.1021/la100169h.

- P46** M. Petitjean, Ph. Mirabel et S. Le Calvé *, Vapour pressure Measurements of hydroxyacetaldehyde and hydroxyacetone in the temperature range 273-356 K, J. Chem. Eng. Data, 55, 852-855, **2010**. DOI: 10.1021/jc9004905.
-

2009

- P45** M. Petitjean, Ph. Mirabel et S. Le Calvé*, *Uptake measurements of acetaldehyde on solid ice surfaces and on solid/liquid supercooled mixtures doped with HNO₃ in the temperature range 203-253K*, J. Phys. Chem. A, 113, 5091-5098, **2009**. DOI: 10.1021/jp810131f.
-

2008

- P44** E. Reyes-Pérez, S. Le Calvé *, Ph. Mirabel, *UV absorption spectrum and Henry's law constant of EPTC*, Atmos. Environ., 42, 7940-7946, **2008**. DOI: 10.1016/j.atmosenv.2008.07.017.
- P43** L. Allou, C. Marchand, S. Le Calvé *, Ph. Mirabel, *Aldehydes and BTEX measurements and exposures in university libraries in Strasbourg (France)*, Indoor Build Environment, 17, 138-145, **2008**. DOI: 10.1177/1420326X08089547
- P42** C. Marchand, S. Le Calvé *, Ph. Mirabel, N. Glasser, A. Casset, N. Schneider, F. de Blay, *Indoor aldehydes concentrations and determinants in 162 homes in Strasbourg (France)*, Atmos. Environ., 42, 505-516, **2008**. DOI: 10.1016/j.atmosenv.2007.09.054.
- P41** E. Reyes-Pérez, S. Le Calvé *, Ph. Mirabel, *Near-UV molar absorptivities of alachlor, mecoprop-p, pendimethalin, propanil and trifluralin in methanol*, J. Photochem. Photobiol. A: Chemistry, 193, 237-244, **2008**. DOI: 10.1016/j.jphotochem.2007.07.001.
- P40** A. Casset, A. Purohit, C. Marchand, S. Le Calvé, G. Pauli, F. De Blay *, *Le formaldéhyde inhalé et la réponse bronchique*, Revue Francaise d'Allergologie et d'Immunologie Clinique, 23 (SUP1), 25-34, **2008**. DOI : RMR-02-2006-23-1-SUP1-0761-8425-101019-200530196
-

2007

- P39** C. Marchand, S. Le Calvé, P. Mirabel, N. Glasser, A. Casset, N. Schneider, F. de Blay*, *Exposure To Formaldehyde In Asthmatic And Control Dwellings In The Area Of Strasbourg (France)*, Journal of Allergy and Clinical Immunology, 119, S267, **2007**. DOI: 10.1016/j.jaci.2006.12.414.
- P38** M. Kerbrat, S. Le Calvé *, Ph. Mirabel, *Uptake measurements of ethanol on ice surfaces and on supercooled aqueous solutions doped with nitric acid between 213 and 243 K*, J. Phys. Chem. A, 111, 925-931, **2007**. DOI: 10.1021/jp0635011.
-

2006

- P37** A. Casset, C. Marchand, A. Purohit, S. Le Calvé, C. Donnay, P. Meyer, G. Pauli, F. De Blay *, *Low exposure to inhaled formaldehyde: Effect on allergen bronchial response in asthmatics sensitized to mite*, J. of Allergy and Clinical Immunology, 117, S23, **2006**. DOI: 10.1016/j.jaci.2005.12.095.
- P36** S. Le Calvé *, C. Marchand, Ph. Mirabel, N. Glasser, A. Casset, A. Purohit, F. de Blay, *Le formaldéhyde dans l'air intérieur et son rôle dans l'asthme*, Pollution Atmosphérique, 191, 271-278, **2006**.

- P35** B. Hanoune, T. LeBris, L. Allou, C. Marchand, S. Le Calvé *, *Formaldehyde measurements in libraries: Comparison between infrared diode laser spectroscopy and a DNPH-derivatization method*, Atmos. Environ., 40, 5768-5775, **2006**. DOI: 10.1016/j.atmosenv.2006.05.017.
- P34** P. Diévar, L. Allou, G. Leyssens, F. Louis *, S. Le Calvé *, *Tropospheric multiphase chemistry of 2,5- and 2,6-dimethylphenols: determination of the mass accommodation coefficients and the henry's law constants*, Phys. Chem. Chem. Phys., 8, 1714–1723, **2006**. DOI: 10.1039/b516193b.
- P33** A. Casset, C. Marchand, A. Purohit, S. Le Calvé, C. Donnay C, B. Uring-Lambert, M.P. Chenard, M.C. Kopferschmitt-Kubler, P. Meyer, G. Pauli, F. de Blay *, *Inhaled formaldehyde exposure: effect on bronchial response to mite allergen in sensitized asthma patients*, Allergy, 61, 1344-1350, **2006**. DOI: 10.1111/j.1398-9995.2006.01174.x
- P32** V. Feigenbrugel, A. Le Person, S. Le Calvé *, A. Mellouki *, A. Muñoz, K. Wirtz, *Atmospheric fate of dichlorvos: photolysis and OH-initiated oxidation*, Environ. Sci. Technol., 40, 850-857, **2006**. DOI : 10.1021/es051178u.
- P31** C. Marchand, B. Bulliot, S. Le Calvé *, Ph. Mirabel, *Aldehyde Measurements in indoor environment in Strasbourg (France)*, Atmos. Environ., 40, 1336-1345, **2006**. DOI : 10.1016/j.atmosenv.2005.10.027.
- P30** A. Casset, A. Purohit, C. Marchand, S. Le Calvé, C. Donnay, B. Uring-Lambert, S. Bahram, G. Pauli, F. de Blay *, *Le formaldéhyde inhalé et la réponse bronchique*, Revue des Maladies Respiratoires (revue générale), 23, 3S25-3S34, **2006**. DOI: 10.1016/S0761-8425(06)73414-3.
- P29** V. Feigenbrugel, S. Le Calvé *, Ph. Mirabel, *Molar absorptivities of 2,4-D, cymoxanil, fenpropidin, isoproturon and pyrimethanil in aqueous solution in the near-UV*, Spectrochimica Acta Part A: Mol. & Biomol. Spectroscopy, 63, 103-110, **2006**. DOI: 10.1016/j.saa.2005.04.040.

2005

- P28** E. M. Collins, H.W. Sidebottom *, J.C. Wenger, S. Le Calvé, A. Mellouki, G. Le Bras, E. Villenave, K. Wirtz, *The influence of reaction conditions on the photooxidation of diisopropyl ether*, Photochem. Photobiol. A: Chemistry, 176, 86-97, **2005**. DOI: 10.1016/j.jphotochem.2005.09.004.
- P27** E. Journet, S. Le Calvé *, Ph. Mirabel, *Adsorption study of acetone on acid doped-ice surfaces between 203 and 233 K*, J. Phys. Chem. B, 109, 14112-14117, **2005**. DOI: 10.1021/jp051524u.
- P26** V. Feigenbrugel, C. Loew, S. Le Calvé *, Ph. Mirabel, *Near-UV molar absorptivities of acetone, alachlor, metolachlor, diazinon and dichlorvos in aqueous solution*, J. Photochem. Photobiol. A: Chemistry, 174, 76-81, **2005**. DOI: 10.1016/j.jphotochem.2005.03.014.
- P25** S. Picaud *, P. Hoang, N. Peybernès, S. Le Calvé, Ph. Mirabel, *Adsorption of acetic acid on ice. Experiments and molecular dynamics simulations*, J. Chem. Phys., 122, 194707-1, **2005**. DOI: 10.1063/1.1888368.
- P24** A. Casset, C. Marchand, S. Le Calvé *, Ph. Mirabel, F. de Blay, *Human Exposure Chamber to known formaldehyde levels: Generation and validation*, Indoor and Built Environment, 14, 173-182, **2005**. DOI: 10.1177/1420326X05052767.

2004

- P23** N. Peybernès, S. Le Calvé *, Ph. Mirabel, S. Picaud, P. Hoang, *Experimental and theoretical adsorption study of ethanol on ice surfaces*, J. Phys. Chem. B, 108, 17425-17432, **2004**. DOI : 10.1021/jp046983u.
- P22** A. Casset, S. Le Calvé, C. Marchand, G. Pauli, P. Mirabel, F. De Blay, *Development of a chamber of controlled exposure to formaldehyde*, Fundamental and Clinical Pharmacology 18 (2), 236, **2004**.
- P21** Z. Xie *, S. Le Calvé, V. Feigenbrugel, T. G. PreuB, R. Vinken, R. Ebinghaus, W. Ruck, *Henry's Law Constants measurements of the nonylphenol isomer 4(3',5'-dimethyl-3'-heptyl)-phenol, tertiary octylphenol and γ -hexachlorocyclohexane between 278-298 K*, Atmos. Envir., 38, 4859-4868, **2004**. DOI: 10.1016/j.atmosenv.2004.05.013.
- P20** V. Feigenbrugel, S. Le Calvé *, Ph. Mirabel, F. Louis, *Henry's Law Constants measurements for phenol, o-, m-, and p-cresol as a function of temperature*, Atmos. Envir., 38, 5577-5588, **2004**. DOI: 10.1016/j.atmosenv.2004.06.025.
- P19** V. Feigenbrugel, S. Le Calvé *, P. Mirabel, *Henry's law constants measurements of metolachlor and diazinon between 283 and 298 K*, Chemosphere, 59, 319-327, **2004**. DOI: 10.1016/j.chemosphere.2004.05.013.
- P18** G. Deiber, Ch. George, S. Le Calvé, F. Schweitzer, Ph. Mirabel *, *Uptake study of ClONO₂ and BrONO₂ by water droplets*, Atmos. Chem. Phys., 4, 1291-1299, **2004**. DOI: 10.5194/acp-4-1291-2004.
- P17** J. Wenger *, S. Le Calvé, H. Sidebottom, K. Wirtz, M.M. Reviejo, J. Franklin, *Photolysis of chloral under atmospheric conditions*, Environ. Sci. Technol., 38, 831-837, **2004**. DOI: 10.1021/es0300719.
- P16** N. Peybernès, C. Marchand, S. Le Calvé *, Ph. Mirabel, *Adsorption study of acetone and biacetyl on ice surfaces between 193 and 223 K*, Phys. Chem. Chem. Phys., 6, 1277-1284, **2004**. DOI: 10.1039/b315064j.
-

2003

- P15** Y. Katrib, S. Le Calvé *, P. Mirabel, *Uptake measurements of dibasic esters by water droplets and determination of their Henry's law constants*, J. Phys. Chem. A, 107, 11433-11439, **2003**. DOI: 10.1021/jp0368132.
- P14** C. Gautier, S. Le Calvé *, P. Mirabel, *Henry's law constants measurements of alachlor and dichlorvos between 283 and 298 K*, Atmos. Environ., 37, 2347-2353, **2003**. DOI: 10.1016/S1352-2310(03)00155-9.
-

2002

- P13** N. Peybernès, S. Le Calvé, Ph. Mirabel, *Uptake Study of Acetone On Ice Using A Vertical Coated Wall Flow Tube*, Atmospheric Implications, E&G Quaternary Science Journal, 27, **2002**.
- P12** S. Le Calvé, A. Mellouki *, G. Le Bras, *Kinetic studies of OH reactions with propylal, butylal and 1,3-dioxolane*, Phys. Chem. Chem. Phys., 4 (22), 5622-5626, **2002**. DOI: 10.1039/b206723d.

- P11** Y. Katrib, P. Mirabel, S. Le Calvé *, G. Weck, E. Kochanski, *Experimental uptake study of ethanol by water droplets and its theoretical modeling of cluster formation at the interface*, J. Phys. Chem. B, 106, 7237-7245, **2002**. DOI: 10.1021/jp015558n.
- P10** Y. Katrib, G. Deiber, P. Mirabel, S. Le Calvé *, C. George, A. Mellouki, G. Le Bras, *Atmospheric loss processes of dimethyl and diethyl carbonate*, J. Atmos. Chem., 43 (3), 151-174, **2002**. DOI: 10.1023/A:1020605807298.
-

2000

- P9** S. Le Calvé, A. Mellouki *, G. Le Bras, J. Treacy, J. Wenger et H. Sidebottom, *Kinetic Studies of OH and O₃ reactions with Allyl and Isopropenyl acetate*, J. Atmos. Chem., 37, 161-172, **2000**. DOI: 10.1023/A:1006499008759.
-

1999

- P8** S. O'Donnell, J. Wenger, H. Sidebottom, W. Mellouki, S. Le Calvé, G. Le Bras, A Kinetic Study On The Reactions Of OH Radicals With Esters And Alkoxy Esters, WIT Transactions on Ecology and the Environment, 35, 124-126, **1999**. DOI: 10.2495/EURO990241.
- P7** S. Le Calvé, G. Le Bras and A. Mellouki, *Kinetics For The OH Reaction With Oxygenated VOCs: A Contribution To Subproject CMD*, WIT Transactions on Ecology and the Environment, 35, 112-115, **1999**. DOI: 10.2495/EURO990211.
-

1998

- P6** S. Le Calvé, G. Le Bras G, J. Moriarty, S. O'Donnell, J. Wenger, Sidebottom H, Abstracts of the 6th FECS Conference 1998 Lectures, Environmental science and pollution research international, 5(3), 119-196, **1998**. DOI: 10.1007/BF02986409.
- P5** S. Le Calvé, D. Hitier, G. Le Bras, A. Mellouki *, *Kinetic study of the OH reactions with a series of ketones*, J. Phys. Chem. A, 102, 4579-4584, **1998**. DOI: 10.1021/jp980848y.
-

1997

- P4** S. Le Calvé, G. Le Bras, A. Mellouki *, *Kinetic studies of OH reactions with a series of methyl esters*, J. Phys. Chem. A, 101, 9137-9141, **1997**. DOI: 10.1021/jp972369p.
- P3** S. Le Calvé, G. Le Bras, A. Mellouki *, *Temperature dependence for the rate coefficients of the reactions of the OH radical with a series of formates*, J. Phys. Chem. A, 101, 5489-5493, **1997**. DOI: 10.1021/jp970554x.
- P2** S. Le Calvé, G. Le Bras, A. Mellouki *, *Kinetic studies of OH reactions with iso-propyl, iso-butyl, sec-butyl and tert-butyl acetate*, Int. J. Chem. Kinetics, 29, 683-688, **1997**.
-

1996

- P1** A. El Boudali, S. Le Calvé, G. Le Bras, A. Mellouki *, *Kinetic studies of OH reactions with a series of acetates*, J. Phys. Chem., 100, 12364-12368, **1996**. DOI: 10.1021/jp9606218.