

PUBLICATIONS (Peer-reviewed journals)

* Author in charge of the correspondence.

2024

- P119** 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.
- P118** 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*, **2024**. DOI: 10.2139/ssrn.4683656.

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- 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. Bégin, 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.

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- 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.

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- 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.
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- 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
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- 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.
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- 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*

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- 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
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- 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.
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- 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.
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- 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
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