

## Patents

- B8** R. Severac, S. Le Calvé, C. Kustner, A. Hébraud, T. Tran-Thi, G. Schlatter, A. Becker, Adsorbent materials for pollution control, **pending registration**.
- B7** S. Le Calvé, A. Grandjean, D. Bazin, A. Becker, Pollutant microanalyser and associated method, brevet français, FR2414802, submitted on 20 December **2024**.
- B6** S. Le Calvé, A. Rodriguez, I. Lara-Ibeas, A. Leprince, M. Wolff, Microfluidic preconcentrator, French patent FR3108724, submitted March 24, 2020, published **October 1, 2021**, granted July 29, 2022. Other references: WO/2021/190918, CN115485538, EP2021709996, + pending.  
[https://patentscope.wipo.int/search/fr/detail.jsf?docId=FR338570961&\\_cid=P22-LDU4JG-63866-1](https://patentscope.wipo.int/search/fr/detail.jsf?docId=FR338570961&_cid=P22-LDU4JG-63866-1)
- B5** S. Le Cavé, C. Andrikopoulou, A. Becker, P. Bernhardt, C. Trocquet, H. Plaisance, Method and devices for microfluidic analyses for the quantification of water-soluble gaseous pollutants, French patent FR3097967, submitted June 25, 2019, published **January 1, 2021**, granted November 5, 2021. Other references: WO/2020/260203, CN114207413, EP3990898, US20220381754.  
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- B4** S. Le Calvé, F. Noel, C. Serra, Microfluidic gas mixture generator, French patent FR3093444, submitted March 6, 2019, published **September 11, 2020**, granted March 5, 2021. Other references: WO/2020/178022, EP3935468, US20220146479, CN114514486.  
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- B3** S. Le Calvé, R. Nasreddine, V. Person, Ch. A. Serra, Microdevice for detecting volatile organic compounds and method for detecting at least one volatile organic compound in a gas sample, French patent FR3029637, submitted December 5, 2014, published **June 10, 2016**, granted January 5, 2018. Other references: CN107110832, EP3227674, US20170343517, WO/2016/087805, JP2017536553.  
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- B2** S. Le Calvé, A. Allouch, P. Bernhardt, M. Guglielmino, Ch. A. Serra, Microfluidic device for the analysis of pollutants in circulation, French patent FR3016441, submitted January 14, 2014, published **July 17, 2015**, granted June 16, 2017. Other references: EP3094405, US20160349188, CN106457240, JP2017505920, WO/2015/107298, CA2936771.  
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- B1** S. Le Calvé, W. Zheng, J.-L. Ponche, P. Bernhardt, Device and method for determining the concentration of a compound in an aqueous or gaseous phase, French patent FR2946751, submitted June 11, 2009, published **December 17, 2010**, granted February 3, 2012. Other references: EP2440908, US20120149122, CA2765198, WO/2010/142908.

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