

Publications et brevets Virginie Laithier

Publications scientifiques :

2010-2014

Martini V, Bernardini S, Bendahan M, et al. Fabrication and characterization of gas detection microfluidic system. *Procedia Engineering*. 2010;5:1188-1191.

[dx.doi.org/10.1016/j.proeng.2010.09.324](https://doi.org/10.1016/j.proeng.2010.09.324)

Laithier Martini V: « Microsystème fluide de détection de gaz pour l'environnement ». Thèse de Doctorat en Microélectronique de l'Université d'Aix-Marseille, soutenue le 5 juin 2012, codirection Bendahan M et Aguir K.

Laithier V, Graur I, Bernardini S, Bendahan M, Aguir K, Perrier P. Thermal creep study in a gas detection microsystem / *Proceeding IMCS.2012*:1236-1239. doi 10.5162/IMCS2012/P1.9.25

Martini V, Bernardini S, Bendahan M, Aguir K, Perrier P, Graur I. Microfluidic gas sensor with integrated pumping system. *Sensors and Actuators B*. 2012;170:45-50.

[doi:10.1016/j.snb.2011.01.011](https://doi.org/10.1016/j.snb.2011.01.011)

Martini-Laithier V, Graur I, Bernardini S, Aguir K, Perrier P, Bendahan M. Ammonia detection by a novel Pyrex microsystem based on thermal creep phenomenon. *Sensors and Actuators B*. 2014;192:714-719. doi:10.1016/j.snb.2013.10.120

2015-2019

Lawson B, Martini-Laithier V, Fiorido T et al. Transdermal Alcohol Measurements Using MOX Sensors in Clinical Trials. *Proceedings*. 2017;1(4): 431. doi:10.3390/proceedings1040431

Annanouch F E, Bendahan M, Bouchet G, et al. Optimized Testing Chamber for Qualified Sensor Responses Measurement. *Sensors & Transducers*. 2018 Jun;222(6):12-17

Lawson B, Martini-Laithier V, Fiorido T et al. Cyclical Heating to Reduce Consumption of SnO₂ Sensors for Alcohol Monitoring. *Proceedings of The Third International Conference on Advances in Sensors, Actuators, Metering and Sensing*. IARIA 2018:18-20. ISBN: 978-1-61208-621-7

Annanouch F E, Morati N, Martini-Laithier V et al. Design and Optimization of Gas Sensor Testing Chamber. *Proceedings of The Third International Conference on Advances in Sensors, Actuators, Metering and Sensing*. IARIA 2018:15-17. ISBN: 978-1-61208-621-7

Lawson B, Aguir K, Fiorido T, Martini-Laithier et al. Skin Alcohol perspiration Measurements Using MOX Sensors. *Sensors & Actuators: B. Chemical*. 2019;280:306–312.

doi.org/10.1016/j.snb.2018.09.082

Brevet :

Aguir K, Bendahan M, Laithier Martini V, Capteur à gaz à couche sensible chauffée, brevet N° FR 13 59494, 2013.

Conférences internationales :

2010-2014

Martini V, Bernardini S, Bendahan M et al. Fabrication and characterization of gas detection microfluidic system. *Eurosensors 2010*. Linz, Austria.

Laithier V, Graur I, Bernardini S, Bendahan M, Aguir K, Perrier P. Thermal creep study in a gas detection microsystem / *Proceeding IMCS, 2012*. Nüremberg, Germany.

Catto A C , da Silva L F, Laithier V. Synthesis and characterization of ZnO nanostructures: application as gas sensors. *SPBMat XII, 2013*. Campos do Jordão, Brasil.

Acuautla M, Bernardini S, Gallais L et al. Flexible Ozone Sensor Fabricated by Photolithography and Laser Patterning. Sensors, Energy harvesting, wireless Network and Smart Objects. *Senso 2014*, Gardanne, France.

2015-2019

Laithier V, Aguir K, Othman M et al. Simulation of an Innovative and Low Power Heater of a Gas Sensing Device. *Senso 2016*, Gardanne, France.

Lawson B, Laithier V, Fiorido T et al. Mos sensors for transdermal alcohol measurement: clinical trials and SnO₂ sensors studies. *Senso 2017*, Gardanne, France.

Lawson B, Martini-Laithier V, Fiorido T et al. Transdermal Alcohol Measurements Using MOX Sensors in Clinical Trials. *Eurosensors 2017*, Paris, France.

Lawson B, Martini-Laithier V, Fiorido T et al. Cyclical Heating to Reduce Consumption of SnO₂ Sensors for Alcohol Monitoring. *The Third International Conference on Advances in Sensors, Actuators, Metering and Sensing. IARIA 2018:18-20*. ISBN: 978-1-61208-621-7

Annanouch F E, Morati N, Martini-Laithier V et al. Design and Optimization of Gas Sensor Testing Chamber. *The Third International Conference on Advances in Sensors, Actuators, Metering and Sensing. IARIA 2018:15-17*. ISBN: 978-1-61208-621-7