

# Nebila Lichiheb, Ph.D.

## Selected Publications

Lichiheb, N., L. Myles, E. Personne, M. Heuer, M. Buban, A. J. Nelson, S. Koloutsou-Vakakis, M. J. Rood, E. Joo, J. Miller and C. Bernacchi (2019). **Implementation of the effect of urease inhibitor on ammonia emissions following urea-based fertilizer application at a Zea mays field in central Illinois: A study with SURFATM-NH<sub>3</sub> model.** *Agricultural and Forest Meteorology* 269-270: 78-87.  
<https://doi.org/10.1016/j.agrformet.2019.02.005>

Nelson, A. J., N. Lichiheb, S. Koloutsou-Vakakis, M. J. Rood, M. Heuer, L. Myles, E. Joo, J. Miller and C. Bernacchi (2019). **Ammonia flux measurements above a corn canopy using relaxed eddy accumulation and a flux gradient system.** *Agricultural and Forest Meteorology* 264: 104-113.  
<https://doi.org/10.1016/j.agrformet.2018.10.003>

Lichiheb N, Myles L, Personne E, Heuer M, Buban M, Nelson A.J, Koloutsou-Vakakis S, Rood M.J, Joo E, Miller J and Bernacchi C., 2018. **Evaluation of ammonia bi-directional fluxes in a fertilized Zea mays field: Implementation of an operational parameterization of emission potentials and modeling of the urease inhibitor effect.** *Agricultural and Forest Meteorology*. In review.

Lichiheb N, Personne E, Bedos C, Van den Berg F and Barriuso E., 2016. **Implementation of the effects of physicochemical properties on the foliar penetration of pesticides and its potential for estimating pesticide volatilization from plants.** *Science of the Total Environment* 550: 1022-1031.

Lichiheb N., 2016. **Volatilisation des pesticides depuis les plantes: approche expérimentale et modélisation.** *Pollution atmosphérique, numéro spécial*.

Lichiheb N, Bedos C, Personne E, Benoit P, Bergheaud V, Fanucci O, Bouhlef J, Barriuso E., 2015. **Measuring leaf penetration and volatilization of chlorothalonil and epoxiconazole applied on wheat leaves in a laboratory scale experiment.** *Journal of Environmental Quality* 44:1782–1790.

Lichiheb N, Bedos C, Personne E et Barriuso E., 2015. **Synthèse des connaissances sur le transfert des pesticides vers l'atmosphère par volatilisation depuis les plantes.** *Pollution atmosphérique* 224.

Lichiheb N, Personne E, Bedos C and Barriuso E., 2014. **Adaptation of a resistive model to pesticide volatilization from plants at the field scale: Comparison with a dataset.** *Atmospheric Environment* 83: 260-268.

## Selected Talks

Lichiheb N., 2018. **Measuring atmospheric carbon and nitrogen fluxes over coastal salt marsh.** *Delaware National Estuarine Research Reserve. St Jones reserve. Delaware.*

Myles L, Lichiheb N, Heuer M, Buban M, Nelson A.J, Koloutsou-Vakakis S, Rood M.J., 2017. **Investigating the processes of ammonia exchanges between the atmosphere and a corn canopy following Urea Ammonium Nitrate (UAN) fertilization with urease inhibitor NBPT.** *AGU. New Orleans.*

Lichiheb N, Myles L, Personne E, Heuer M, Buban M., 2017. **Evaluation of ammonia air-surface exchange at the field scale: Improvement of soil and stomatal emission potential parameterizations.** *NADP. San Diego.*

Lichiheb N, Myles L, Personne E, Heuer M, Buban M., 2017. **Evaluation of ammonia air-surface exchange at the field scale.** *ACS. Washington, DC.*

Lichiheb N, Bedos C, Personne E, Van den Berg F and Barriuso E., 2014. **Modelling pesticide volatilization from plants at the field scale: comparison of SURFATM and PEARL models.** *IUPAC. San Francisco.*

Lichiheb N, Personne E, Bedos C and Barriuso E., 2013. **Development and validation of a mechanistic pesticide emission model at the field scale: toward a tool for evaluating the sources of atmospheric contamination by pesticides.** *Pesticides Behaviour in Soils, Water and Air. York (UK).*

Lichiheb N, Personne E, Bedos C and Barriuso E., 2013. **Développement et validation d'un modèle mécaniste de volatilisation des pesticides.** *Journée doctorant Air de l'ADEME. Paris (France).*

Bedos C, Personne E., Lichiheb N., Magandji-Douckagha G., Barriuso E., 2011. **Modelling Pesticide volatilization from crop at the field scale.** *XIII Symposium Pesticide Chemistry. Piacenza (Italy).*