

Equipe ECO&PHY - PRINCIPALES PUBLICATIONS 2018-2023

Mise à jour 27 mai 2024

- Articles dans des revues à comité de lecture
- Preprints sur des sites internet dédiés
- Articles dans des revues sans comité de lecture (technique, transfert)
- Ouvrages
- Chapitres d'ouvrages
- Rapports (tous types)
- Déclarations d'invention
- Mémoires d'Habilitation à Diriger des Recherches (HDR)
- Thèses de Doctorat encadrées ou coencadrées par des scientifiques EcoSys
- Colloques, Workshops (communications orales, posters)
- **Autres productions diverses (cours, media, bases et modèles, ...) : non listées ici**

ARTICLES DANS DES REVUES A COMITE DE LECTURE

2018

Eph-CI2018.1 **Abichou M.**, Fournier C., **Dornbusch T.**, **Chambon C.**, de Solan B., Gouache D., **Andrieu B.**, 2018. Parameterising wheat leaf and tiller dynamics for faithful reconstruction of wheat plants by structural plant models. *Field Crops Research*, 218, 213-230. <http://dx.doi.org/doi:10.1016/j.fcr.2018.01.010>
<https://hal.inrae.fr/ECOSYS/hal-01708613v1>

Eph-CI2018.2 **Abis L.**, **Loubet B.**, **Ciuraru R.**, **Lafouge F.**, Dequiedt S., **Houot S.**, Maron P.A., Bourgeteau-Sadet S., 2018. Profiles of volatile organic compound emissions from soils amended with organic waste products. *Science of the Total Environment*, 636, 1333-1343. <http://dx.doi.org/doi:10.1016/j.scitotenv.2018.04.232>
<https://hal.inrae.fr/ECOSYS/hal-01789296v1> **OA**

Eph-CI2018.3 Baey C., **Mathieu A.**, **Jullien A.**, Trevezas S., Cournède P.-H., 2018. Mixed-effects estimation in dynamic models of plant growth for the assessment of inter-individual variability. *Journal of Agricultural, Biological and Environmental Statistics*, 23, 2, 208-232. <http://dx.doi.org/doi:10.1007/s13253-017-0307-4>
<https://hal.inrae.fr/hal-01766698v1>

Eph-CI2018.4 Borg J., Kiær L.P., Lecarpentier C., Goldringer I., Gauffreteau A., **Saint-Jean S.**, Barot S., Enjalbert J., 2018. Unfolding the potential of wheat cultivar mixtures: A meta-analysis perspective and identification of knowledge gaps. *Field Crops Research*, 221, 298-313. <http://dx.doi.org/doi:10.1016/j.fcr.2017.09.006>
<https://hal.inrae.fr/ECOSYS/hal-01612838v1>

Eph-CI2018.5 Brault V., Lévy-Leduc C., **Mathieu A.**, **Jullien A.**, 2018. Change-point estimation in the multivariate model taking into account the dependence: Application to the vegetative development of Oilseed Rape. *Journal of Agricultural, Biological and Environmental Statistics*, 23, 3, 374-389. <http://dx.doi.org/doi:10.1007/s13253-018-0324-y> <https://hal.inrae.fr/ECOSYS/hal-01809633v1> **OA**

Eph-CI2018.6 Brunelle T., Dumas P., **Ben Aoun W.**, **Gabrielle B.**, 2018. Unravelling Land-Use Change Mechanisms at Global and Regional Scales. *BioPhysical Economics and Resource Quality*, 3, 3, article no 13, 14 p. <http://dx.doi.org/doi:10.1007/s41247-018-0047-2> <https://hal.inrae.fr/hal-01879044v1> **OA**

Eph-CI2018.7 **Collin F.**, **Bancal P.**, Spink J., Appelgren P.K., Smith J., Paveley N.D., **Bancal M.O.**, Foulkes M.J., 2018. Wheat lines exhibiting variation in tolerance of Septoria tritici blotch differentiated by grain source limitation.

- Eph-CI2018.8** de Vallavieille-Pope C., Bahri B., Leconte M., **Zurfluh O.**, Belaid Y., Maghrebi E., Huard F., **Huber L.**, Launay M., **Bancal M.O.**, 2018. Thermal generalist behaviour of invasive *Puccinia striiformis* f. sp. tritici strains under current and future climate conditions. *Plant Pathology*, 67, 1307-1320. <http://dx.doi.org/doi:10.1111/ppa.12840> <https://hal.inrae.fr/ECOSYS/hal-01811439v1> OA
- Eph-CI2018.9 Domingues J.P., Ryschawy J., Bonaudo T., **Gabrielle B.**, Tichit M., 2018. Unravelling the physical, technological and economic factors driving the intensification trajectories of livestock systems. *Animal*, 12, 8, 1652-1661. <http://dx.doi.org/doi:10.1017/S1751731117003123> <https://hal.inrae.fr/ECOSYS/hal-02625510v1> OA
- Eph-CI2018.10** Ehrhardt F., Soussana J.F., Bellocchi G., Grace P., McAuliffe R., Recous S., Sandor R., Smith P., Snow V., Migliorati M.D.A., Basso B., Bhatia A., Brilli L., Doltra J., Dorich C.D., Doro L., Fitton N., Giacomini S.J., Grant B., Harrison M.T., Jones S.K., Kirschbaum M.U.F., Klumpp K., **Laville P.**, Leonard J., Liebig M., Lieffering M., Martin R., **Massad R.S.**, Meier E., Merbold L., Moore A.D., Myrriotis V., Newton P., Pattey E., Rolinski S., Sharp J., Smith W.N., Wu L., Zhang Q., 2018. Assessing uncertainties in crop and pasture ensemble model simulations of productivity and N₂O emissions. *Global Change Biology*, 24, 2, E603-E616. <http://dx.doi.org/doi:10.1111/gcb.13965> <https://hal.inrae.fr/ECOSYS/hal-02624255v1> OA
- Eph-CI2018.11** El Akkari M., Réchauchère O., Bispo A., **Gabrielle B.**, Makowski D., 2018. A meta-analysis of the greenhouse gas abatement of bioenergy factoring in land use changes. *Scientific Reports*, 8, 1, article no 8563, 7 p. <http://dx.doi.org/doi:10.1038/s41598-018-26712-x> <https://hal.inrae.fr/hal-01820557v1> OA
- Eph-CI2018.12** Finco A., Coyle M., Nemitz E., Marzuoli R., Chiesa M., **Loubet B.**, Fares S., Diaz-Pines E., Gasche R., Gerosa G., 2018. Characterization of ozone deposition to a mixed oak–hornbeam forest – flux measurements at five levels above and inside the canopy and their interactions with nitric oxide. *Atmospheric Chemistry and Physics*, 18, 24, 17945-17961. <http://dx.doi.org/doi:10.5194/acp-18-17945-2018> <https://hal.inrae.fr/ECOSYS/hal-01967253v1> OA
- Eph-CI2018.13** Fortineau A., **Bancal P.**, 2018. An innovative light chamber for measuring photosynthesis by three-dimensional plant organs. *Plant Methods*, 14, 1, article no 21, 12 p. <http://dx.doi.org/doi:10.1186/s13007-018-0288-5> <https://hal.inrae.fr/hal-01739289v1> OA
- Eph-CI2018.14 Franqueville D., **Benhamou C.**, Pasquier C., Hénault C., **Drouet J.L.**, 2018. Modelling reactive nitrogen fluxes and mitigation scenarios on a landscape in Central France. *Agriculture, Ecosystems and Environment*, 264, 99-110. <http://dx.doi.org/doi:10.1016/j.agee.2018.05.019> <https://hal.inrae.fr/ECOSYS/hal-01801980v1>
- Eph-CI2018.15** Garin G., Pradal C., Fournier C., Claessen D., Houles V., **Robert C.**, 2018. Modelling interaction dynamics between two foliar pathogens in wheat: a multi-scale approach. *Annals of Botany*, 121, 5, 927–940. <http://dx.doi.org/doi:10.1093/aob/mcx186> <https://hal.inrae.fr/hal-01678310v1> OA
- Eph-CI2018.16** **Génermont S.**, **Ramanantenasoa M.M.J.**, **Dufossé K.**, **Maury O.**, Mignolet C., **Gilliot J.M.**, 2018. Data on spatio-temporal representation of mineral N fertilization and manure N application as well as ammonia volatilization in French regions for the crop year 2005/06. *Data in Brief*, 21, 1119-1124. <http://dx.doi.org/doi:10.1016/j.dib.2018.09.119> <https://hal.inrae.fr/hal-02440586v1> OA
- Eph-CI2018.17** Gitton C., **Verger Y.**, Brondeau F., Charvet R., Nold F., Branchu P., Douay F., **Lamy I.**, **Mougin C.**, Petit C., Rémy E., 2018. L'économie circulaire : cercle vertueux ou cercle vicieux ? Le cas de l'utilisation de terres maraîchères pour aménager des espaces verts urbains. *Géocarrefour*, 92, 92. <http://dx.doi.org/doi:10.4000/geocarrefour.11950> <https://hal.inrae.fr/hal-01972726v1> OA
- Eph-CI2018.18 Hafner S.D., Pacholski A., Bittman S., Burchill W., Bussink W., Chantigny M., **Carozzi M.**, **Génermont S.**, Häni C., Hansen M.N., Huijsmans J., Hunt D., Kupper T., Lanigan G., **Loubet B.**, Misselbrook T., Meisinger J.J., Neftel A., Nyord T., Pedersen S.V., Sintermann J., Thompson R.B., Vermeulen B., Vestergaard A.V., **Voytkov P.**,

- Williams J.R., Sommer S.G., 2018. The ALFAM2 database on ammonia emission from field-applied manure: Description and illustrative analysis. *Agricultural and Forest Meteorology*, 258, 66-79. <http://dx.doi.org/doi:10.1016/j.agrformet.2017.11.027> <https://hal.inrae.fr/ECOSYS/hal-01766701v1>
- Eph-CI2018.19** Jiang J.Y., Comar A., Burger P., **Bancal P.**, Weiss M., Baret F., 2018. Estimation of leaf traits from reflectance measurements: comparison between methods based on vegetation indices and several versions of the PROSPECT model. *Plant Methods*, 14, article no 23, 16 p. <http://dx.doi.org/doi:10.1186/s13007-018-0291-x> <https://hal.inrae.fr/hal-02624328v1> **OA**
- Eph-CI2018.20 **Lammoglia S.K.**, Brun F., Quemar T., Moeys J., **Barriuso E.**, **Gabrielle B.**, **Mamy L.**, 2018. Modelling pesticides leaching in cropping systems: Effect of uncertainties in climate, agricultural practices, soil and pesticide properties. *Environmental Modelling and Software*, 109, 342-352. <http://dx.doi.org/doi:10.1016/j.envsoft.2018.08.007> <https://hal.inrae.fr/ECOSYS/hal-01857290v1>
- Eph-CI2018.21** Lavrsen Kure J., Krabben J., Vilms Pedersen S., **Carozzi M.**, Sommer S., 2018. An assessment of low-cost techniques to measure ammonia emission from multi-plots: A case study with urea fertilization. *Agronomy*, 8, 11, 245. <http://dx.doi.org/doi:10.3390/agronomy8110245> <https://hal.inrae.fr/hal-01915682v1> **OA**
- Eph-CI2018.22 Le Morvan-Quéméner A., Coll I., **Kammer J.**, Lamaud E., **Loubet B.**, **Personne E.**, Stella P., 2018. Impact of parameterization choices on the restitution of ozone deposition over vegetation. *Atmospheric Environment*, 178, 49-65. <http://dx.doi.org/doi:10.1016/j.atmosenv.2018.01.003> <https://hal.inrae.fr/ECOSYS/hal-01705835v1>
- Eph-CI2018.23** **Loubet B.**, **Carozzi M.**, **Voylokov P.**, Cohan J.-P., Trochard R., **Génermont S.**, 2018. Evaluation of a new inference method for estimating ammonia volatilisation from multiple agronomic plots. *Biogeosciences*, 15, 11, 3439-3460. <https://doi.org/10.5194/bg-15-3439-2018> <https://hal.inrae.fr/hal-01819731v1> **OA**
- Eph-CI2018.24** **Marin-Benito J.M.**, Alletto L., **Barriuso E.**, **Bedos C.**, **Benoit P.**, **Pot V.**, **Mamy L.**, 2018. Pesticide fate modelling in conservation tillage: Simulating the effect of mulch and cover crop on S-metolachlor leaching. *Science of the Total Environment*, 628-629, 1508-1517. <http://dx.doi.org/doi:10.1016/j.scitotenv.2018.02.144> <https://hal.inrae.fr/ECOSYS/hal-01715643v1> **OA**
- Eph-CI2018.25** **Mathieu A.**, **Vidal T.**, **Jullien A.**, Wu Q., **Chambon C.**, Bayol B., Cournede P.-H., 2018. A new methodology based on sensitivity analysis to simplify the recalibration of functional-structural plant models in new conditions. *Annals of Botany*, 122, 3, 397-408. <https://doi.org/10.1093/aob/mcy080> <https://hal.inrae.fr/ECOSYS/hal-01824176v1> **OA**
- Eph-CI2018.26 **Ramanantenasoa M.M.J.**, **Gilliot J.-M.**, Mignolet C., **Bedos C.**, Mathias E., Eglin T., Makowski D., **Génermont S.**, 2018. A new framework to estimate spatio-temporal ammonia emissions due to nitrogen fertilization in France. *Science of the Total Environment*, 645, 205-219. <http://dx.doi.org/doi:10.1016/j.scitotenv.2018.06.202> <https://hal.inrae.fr/hal-01843726v1>
- Eph-CI2018.27** **Robert C.**, **Garin G.**, **Abichou M.**, Houles V., Pradal C., Fournier C., 2018. Plant architecture and foliar senescence impact the race between wheat growth and *Zymoseptoria tritici* epidemics. *Annals of Botany*, 21, 5, 975-989. <http://dx.doi.org/doi:10.1093/aob/mcx192> <https://hal.inrae.fr/hal-01766697v1> **OA**
- Eph-CI2018.28 Robin M.H., **Bancal M.O.**, Cellier V., Delos M., Felix I., Launay M., Magnard A., Olivier A., **Robert C.**, Rolland B., Sache I., Aubertot J.N., 2018. IPSIM-Web, an online resource for promoting qualitative aggregative hierarchical network models to predict plant disease risk: application to brown rust on wheat. *Plant Disease*, 102, 3, 488-499. <http://dx.doi.org/doi:10.1094/PDIS-12-16-1816-SR> <https://hal.inrae.fr/ECOSYS/hal-01714758v1>
- Eph-CI2018.29 **Verger Y.**, Petit C., Barles S., Billen G., Garnier J., Esculier F., Maugis P., 2018. A N, P, C, and water flows metabolism study in a peri-urban territory in France: The case-study of the Saclay plateau. *Resources Conservation and Recycling*, 137, 200-213. <http://dx.doi.org/doi:10.1016/j.resconrec.2018.06.007> <https://hal.inrae.fr/hal-01872285v1>

Eph-CI2018.30 Vidal T., Gigot C., de Vallavieille-Pope C., Huber L., Saint-Jean S., 2018. Contrasting plant height can improve the control of rain-borne diseases in wheat cultivar mixture: modelling splash dispersal in 3-D canopies. *Annals of Botany*, 121, 7, 1299-1308. <http://dx.doi.org/doi:10.1093/aob/mcy024> <https://hal.inrae.fr/hal-01743009v1> **OA**

Eph-CI2018.31 Volpi I., Laville P., Bonari E., Nassi o Di Nasso N., Bosco S., 2018. Nitrous oxide mitigation potential of reduced tillage and N input in durum wheat in the Mediterranean. *Nutrient Cycling in Agroecosystems*, 111, 2-3, 189-201. <http://dx.doi.org/doi:10.1007/s10705-018-9922-x> <https://hal.inrae.fr/hal-01876814v1>

Eph-CI2018.32 Xu W., Shang B., Xu Y., Yuan X., Dore A.J., Zhao Y., Massad R.S., Feng Z., 2018. Effects of elevated ozone concentration and nitrogen addition on ammonia stomatal compensation point in a poplar clone. *Environmental Pollution*, 238, 760-770. <http://dx.doi.org/doi:10.1016/j.envpol.2018.03.089> <https://hal.inrae.fr/hal-04353491v1> **OA**

2019

Eph-CI2019.1 Abichou M., de Solan B., Andrieu B., 2019. Architectural Response of Wheat Cultivars to Row Spacing Reveals Altered Perception of Plant Density. *Frontiers in Plant Science*, 10, article no 999, 14 p. <http://dx.doi.org/doi:10.3389/fpls.2019.00999> <https://hal.inrae.fr/ECOSYS/hal-02618496v1> **OA**

Eph-CI2019.2 Albasha R., Fournier C., Pradal C., Chelle M., Prieto J.A., Louarn G., Simonneau T., Lebon E., 2019. HydroShoot: a functional-structural plant model for simulating hydraulic structure, gas and energy exchange dynamics of complex plant canopies under water deficit - application to grapevine (*Vitis vinifera* L.). *In Silico Plants*, 1, no 1, article no diz007, 26 p. <http://dx.doi.org/doi:10.1093/insilicoplants/diz007> <https://hal.inrae.fr/ECOSYS/hal-02253260v1> **OA**

Eph-CI2019.3 Azouz N., Drouet J.-L., Beekmann M., Siour G., Wichink Kruit R., Cellier P., 2019. Comparison of spatial patterns of ammonia concentration and dry deposition flux between a regional Eulerian chemistry-transport model and a local Gaussian plume model. *Air Quality, Atmosphere and Health*, 12, 6, 719-729. <http://dx.doi.org/doi:10.1007/s11869-019-00691-y> <https://hal.inrae.fr/ECOSYS/hal-02154628v1>

Eph-CI2019.4 Barillot R., Chambon C., Fournier C., Combes D., Pradal C., Andrieu B., 2019. Investigation of complex canopies with a functional-structural plant model as exemplified by leaf inclination effect on the functioning of pure and mixed stands of wheat during grain filling. *Annals of Botany*, 123, 4, 727-742. <http://dx.doi.org/doi:10.1093/aob/mcy208> <https://hal.inrae.fr/ECOSYS/hal-02071897v1> **OA**

Eph-CI2019.5 Boixel A.L., Delestre G., Legeay J., Chelle M., Suffert F., 2019. Phenotyping Thermal Responses of Yeasts and Yeast-like Microorganisms at the Individual and Population Levels: Proof-of-Concept, Development and Application of an Experimental Framework to a Plant Pathogen. *Microbial Ecology*, 78, 1, 42-56. <http://dx.doi.org/doi:10.1007/s00248-018-1253-6> <https://hal.inrae.fr/ECOSYS/hal-02159596v1> **OA**

Eph-CI2019.6 Brun J., Salembier C., Loubet B., Jullien A., 2019. Designing collaborative research: the exploration of common purposes to foster the generation of cross-disciplinary projects. *Proceedings of the Design Society: International Conference on Engineering Design (ICED19, Delft, NLD, 2019)*, 1, 1, 2219-2228. <http://dx.doi.org/doi:10.1017/dsi.2019.228> <https://hal.inrae.fr/ECOSYS/hal-02947672v1> **OA**

Eph-CI2019.7 Casal L., Durand P., Akkal-Corfini N., Benhamou C., Laurent F., Salmon-Monviola J., Ferrant S., Probst A., Probst J.L., Vertès F., 2019. Reduction of stream nitrate concentrations by land management in contrasted landscapes. *Nutrient Cycling in Agroecosystems*, 114, 1, 1-17. <http://dx.doi.org/doi:10.1007/s10705-019-09985-0> <https://hal.inrae.fr/ECOSYS/hal-02324505v1> **OA**

Eph-CI2019.8 Cellier P., 2019. De la fertilisation des cultures à la cascade de l'azote. *Agronomie Environnement et Sociétés*, 9, issue 1, article no 3, 13-17. <https://agronomie.asso.fr/les-travaux-de-lassociation/revue-aes/tous-les-numeros-de-aes/aes-9-1-gestion-de-la-fertilisation/revue-aes-vol9-n1-3/> <https://hal.science/hal-02648931v1> **OA**

- Eph-CI2019.9** Chiodini M.E., Perego A., **Carozzi M.**, Acutis M., 2019. The Nitrification Inhibitor Vizura® Reduces N₂O Emissions When Added to Digestate before Injection under Irrigated Maize in the Po Valley (Northern Italy). *Agronomy-Basel*, 9, 8. Article no 431, 17 p. <https://doi.org/10.3390/agronomy9080431> <https://hal.inrae.fr/ECOSYS/hal-02620093v1> **OA**
- Eph-CI2019.10** Cowan N., Levy P., Moring A., Simmons I., Bache C., Stephens A., Marinheiro J., Bricchet J., Song L., Pickard A., McNeill C., McDonald R., Maire J., **Loubet B.**, **Voylokov P.**, Sutton M., Skiba U., 2019. Nitrogen use efficiency and N₂O and NH₃ losses attributed to three fertiliser types applied to an intensively managed silage crop. *Biogeosciences*, 16, 23, 4731-4745. <http://dx.doi.org/doi:10.5194/bg-16-4731-2019> <https://hal.inrae.fr/ECOSYS/hal-02612404v1> **OA**
- Eph-CI2019.11** Delon C., Galy-Lacaux C., Serça D., **Personne E.**, Mougin E., Adon M., Le Dantec V., **Loubet B.**, Fensholt R., Tagesson T., 2019. Modelling land-atmosphere daily exchanges of NO, NH₃, and CO₂ in a semi-arid grazed ecosystem in Senegal. *Biogeosciences*, 16, 9, 2049-2077. <http://dx.doi.org/doi:10.5194/bg-16-2049-2019> <https://hal.inrae.fr/ECOSYS/hal-02172497v1> **OA**
- Eph-CI2019.12 Domingues J.P., Gameiro A.H., Bonaudo T., Tichit M., **Gabrielle B.**, 2019. Exploring trade-offs among indicators of performance and environmental impact in livestock areas. *Regional Environmental Change*, 19, 7, 2089-2099. <http://dx.doi.org/doi:10.1007/s10113-019-01538-z> <https://hal.inrae.fr/ECOSYS/hal-02437649v1>
- Eph-CI2019.13** Domingues-Santos J.P., Bonaudo T., **Gabrielle B.**, Perrot C., Yves T., Tichit M., 2019. Les effets du processus d'intensification de l'élevage dans les territoires. *INRA Productions Animales*, 32, 2 (special issue), 159-170. <http://dx.doi.org/doi:10.20870/productions-animales.2019.32.2.2506> <https://hal.inrae.fr/ECOSYS/hal-02437654v1> **OA**
- Eph-CI2019.14** Ferrer-Savall J., Franqueville D., Barbillon P., Benhamou C., Durand P., Taupin M.L., Monod H., Drouet J.L., 2019. Sensitivity analysis of spatio-temporal models describing nitrogen transfers, transformations and losses at the landscape scale. *Environmental Modelling and Software*, 111, 356-367. <http://dx.doi.org/doi:10.1016/j.envsoft.2018.09.010> <https://hal.inrae.fr/ECOSYS/hal-01595879v1> **OA**
- Eph-CI2019.15** Gaudio N., Escobar-Gutiérrez A.J., Casadebaig P., Evers J.B., Gérard F., Louarn G., Colbach N., Munz S., Launay M., Marrou H., Barillot R., Hinsinger P., Bergez J.-E., Combes D., Durand J.-L., Frak E., Pagès L., Pradal C., **Saint-Jean S.**, Van Der Werf W., Justes E., 2019. Current knowledge and future research opportunities for modeling annual crop mixtures. A review. *Agronomy for Sustainable Development*, 39, article no 20, 20 p. <http://dx.doi.org/doi:10.1007/s13593-019-0562-6> <https://hal.inrae.fr/ECOSYS/hal-02228974v1> **OA**
- Eph-CI2019.16** Girard N., Aubin-Houzelstein G., Broussolle V., **Chelle M.**, Lamothe L., Garcia F., Lutton E., Santé A., 2019. Former ensemble doctorant et encadrant(s) à l'INRA, un institut de recherche pluridisciplinaire et finalisé (Training doctoral students and supervisors together at Inra, a multidisciplinary research institute). *Natures Sciences Sociétés*, 27, 3, 327-335. <https://doi.org/10.1051/nss/2019049> ; <https://hal.inrae.fr/ECOSYS/hal-02621799v1> **OA**
- Eph-CI2019.17 **Gonzaga Gomez L.**, **Loubet B.**, **Lafouge F.**, **Ciuraru R.**, **Buysse P.**, **Durand B.**, **Gueudet J.-C.**, **Fanucci O.**, **Fortineau A.**, **Zurfluh O.**, **Decuq C.**, **Kammer J.**, **Duprix P.**, **Bsaibes S.**, Truong F., Gros V., Boissard C., 2019. Comparative study of biogenic volatile organic compounds fluxes by wheat, maize and rapeseed with dynamic chambers over a short period in northern France. *Atmospheric Environment*, 214, article no 116855, 16 p. <http://dx.doi.org/doi:10.1016/j.atmosenv.2019.116855> <https://hal.inrae.fr/ECOSYS/hal-02352509v1>
- Eph-CI2019.18 Hafner S.D., Pacholski A., Bittman S., **Carozzi M.**, Chantigny M., **Génermont S.**, Häni C., Hansen M.N., Huijsmans J., Kupper T., Misselbrook T., Neftel A., Nyord T., Sommer S.G., 2019. A flexible semi-empirical model for estimating ammonia volatilization from field-applied slurry. *Atmospheric Environment*, 199, 474-484. <https://doi.org/10.1016/j.atmosenv.2018.11.034> <https://hal.inrae.fr/ECOSYS/hal-02090587v1>
- Eph-CI2019.19 **Haro K.**, Ouarma I., Nana B., Bere A., Tubreoumya G.C., Kam S.Z., **Laville P.**, **Loubet B.**, Koulidiati J., 2019. Assessment of CH₄ and CO₂ surface emissions from Polesgo's landfill (Ouagadougou, Burkina Faso) based on static chamber method. *Advances in Climate Change Research*, 10, 3,, 181-191. <http://dx.doi.org/doi:10.1016/j.accre.2019.09.002> <https://hal.inrae.fr/ECOSYS/hal-02444444v1>

- Eph-CI2019.20** LeCarpentier C., Barillot R., Blanc E., **Abichou M.**, Goldringer I., Barbillon P., Enjalbert J., **Andrieu B.**, 2019. WALTER: a three-dimensional wheat model to study competition for light through the prediction of tillering dynamics. *Annals of Botany*, 123, 6, 961-975. <https://doi.org/10.1093/aob/mcy226> <https://hal.inrae.fr/hal-02175986v1> **OA**
- Eph-CI2019.21 Lichiheb N., Myles L., **Personne E.**, Heuer M., Buban M., Nelson A.J., Koloutsou-Vakakis S., Rood M.J., Joo E., Miller J., Bernacchi C., 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-NH3 model. *Agricultural and Forest Meteorology*, 269-270, 78-87. <http://dx.doi.org/doi:10.1016/j.agrformet.2019.02.005> <https://hal.inrae.fr/ECOSYS/hal-02019965v1>
- Eph-CI2019.22** Liu S., Martre P., Buis S., **Abichou M.**, **Andrieu B.**, Baret F., 2019. Estimation of Plant and Canopy Architectural Traits Using the Digital Plant Phenotyping Platform. *Plant Physiology*, 181, 3, 881-890. <http://dx.doi.org/doi:10.1104/pp.19.00554> <https://hal.inrae.fr/ECOSYS/hal-02627401v1> **OA**
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