Publications dispositif FertiGuyane **UMR EcoFoG - màj 03/2025**

Subject	Year	Authors	Title	Link to reference
Fine root biomass and traits	2024	Lugli, L. F. et al.	Contrasting responses of fine root biomass and traits to large-scale nitrogen and phosphorus addition in tropical forests in the Guiana shield	https://doi.org/10.1111/oik.10412
Different profiles of soil phosphorous compounds	2024	Gargallo-Garriga, A. et al.	Different profiles of soil phosphorous compounds depending on tree species and availability of soil phosphorus in a tropical rainforest in French Guiana	https://doi.org/10.1186/s12870-024-04907-x
Foliar elementome and functional traits	2023	Sardans, J. et al.	Foliar elementome and functional traits relationships identify tree species niche in French Guiana rainforests	https://doi.org/10.1002/ecy.4118
Community assembly and functional trait space	2023	Peguero, G. et al.	Nutrient-based species selection is a prevalent driver of community assembly and functional trait space in tropical forests	https://doi.org/10.1111/1365-2745.14089
Nitrogen limitation	2023	Vallicrosa, H. et al.	Phosphorus scarcity contributes to nitrogen limitation in lowland tropical rainforests	https://doi.org/10.1002/ecy.4049
Soil terpene exchanges	2022	Llusià, J. et al.	Contrasting nitrogen and phosphorus fertilization effects on soil terpene exchanges in a tropical forest	https://doi.org/10.1016/j.scitotenv.2021.149769
Leaf photosynthesis and leaf traits and soil nutrients	2022	Verryckt, L. et al.	Vertical profiles of leaf photosynthesis and leaf traits and soil nutrients in two tropical rainforests in French Guiana before and after a 3-year nitrogen and phosphorus addition experiment	https://doi.org/10.5194/essd-14-5-2022
High foliar K and P resorption efficiencie	2021	Urbina, I. et al.	High foliar K and P resorption efficiencies in old-growth tropical forests growing on nutrient-poor soils	https://doi.org/10.1002/ece3.7734
Free-Living Nitrogen Fixation in Litter and Soil	2021	Van Langenhove, L. et al.	Impact of Nutrient Additions on Free-Living Nitrogen Fixation in Litter and Soil of Two French-Guianese Lowland Tropical Forests	https://doi.org/10.1029/2020JG006023
"Metabolomic niche" of canopy suspended soils	2021	Gargallo-Garriga, A. et al.	Tree species and epiphyte taxa determine the "metabolomic niche" of canopy suspended soils in a species-rich lowland tropical rainforest	https://www.mdpi.com/2218-1989/11/11/718
31P-NMR metabolomics	2020	Gargallo-Garriga, A. et al.	31P-NMR metabolomics revealed species-specific use of phosphorous in trees of a French Guiana rainforest	https://doi.org/10.3390/molecules25173960
Atmospheric deposition of elements	2020	Van Langenhove, L. et al.	Atmospheric deposition of elements and its relevance for nutrient budgets of tropical forests	https://doi.org/10.1007/s10533-020-00673-8
Different "metabolomic niches"	2020	Gargallo-Garriga, A. et al.	Different "metabolomic niches" of the highly diverse tree species of the French Guiana rainforests	https://doi.org/10.1038/s41598-020-63891-
Rapid root assimilation of added phosphorus	2020	Van Langenhove, L. et al.	Rapid root assimilation of added phosphorus in a lowland tropical rainforest of French Guiana	https://doi.org/10.1016/j.soilbio.2019.107646
Nitrogen fixation from free-living organisms in soil and leaf litter	2020	Van Langenhove, L. et al.	Regulation of nitrogen fixation from free-living organisms in soil and leaf litter of two tropical forests of the Guiana shield	https://doi.org/10.1007/s11104-019-04012-1
Soil nutrient variation	2020	Van Langenhove, L. et al.	Soil nutrient variation along a shallow catena in Paracou, French Guiana	https://doi.org/10.1071/SR20023
Soil fauna control over leaf litter decomposition	2019	Peguero, G. et al.	Nutrient scarcity strengthens soil fauna control over leaf litter decomposition in tropical rainforests	https://doi.org/10.1098/rspb.2019.1300
Soil CO_2, CH_4 and N_2O fluxes	2018	Courtois, E. A. et al.	Spatial variation of soil CO_2, CH_4 and N_2O fluxes across topographical positions in tropical forests of the Guiana shield	https://doi.org/10.1007/s10021-018-0232-6
Nutrient-cycling mechanisms	2017	Grau, O. et al.	Nutrient-cycling mechanisms other than the direct absorption from soil may control forest structure and dynamics in poor Amazonian soils	https://doi.org/10.1038/srep45017*