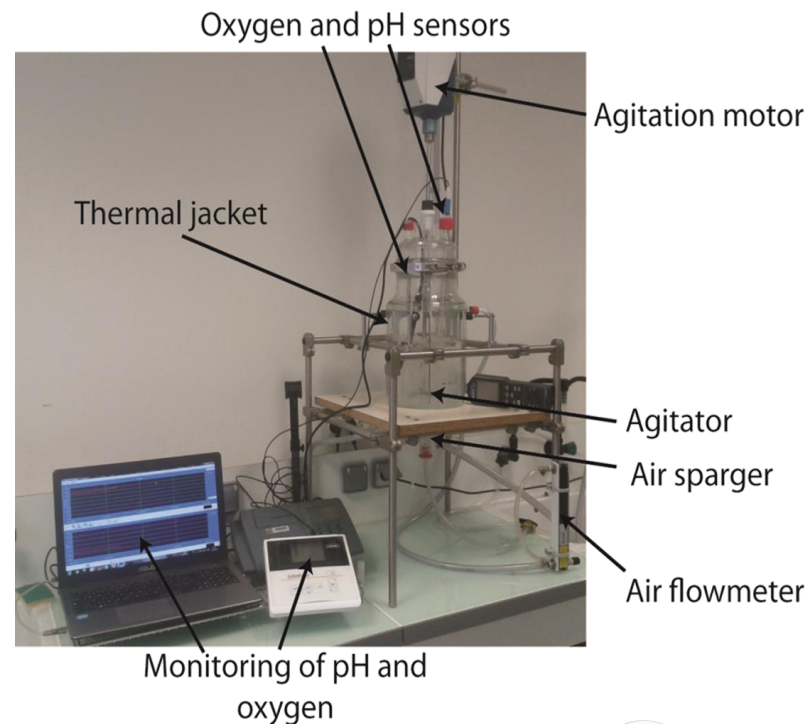
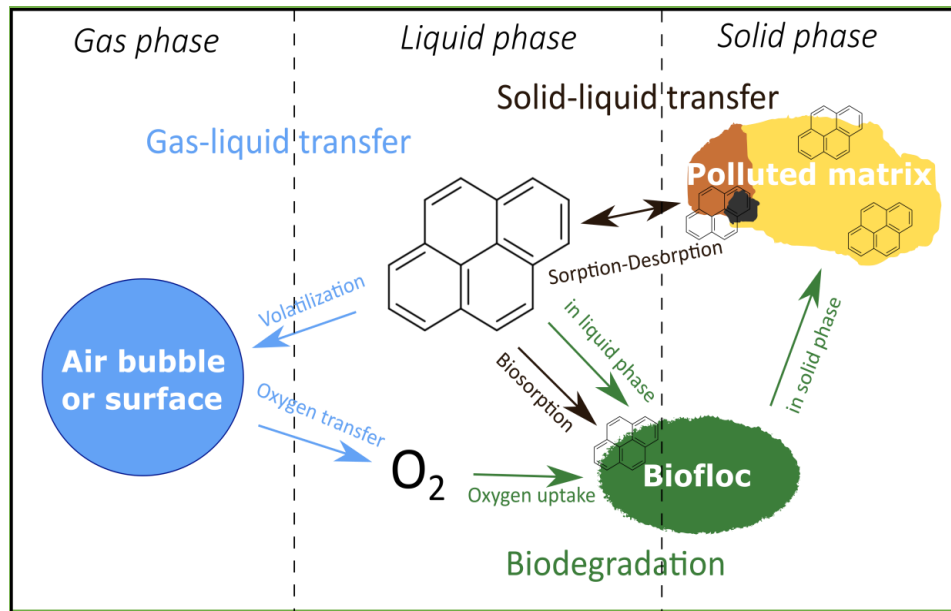


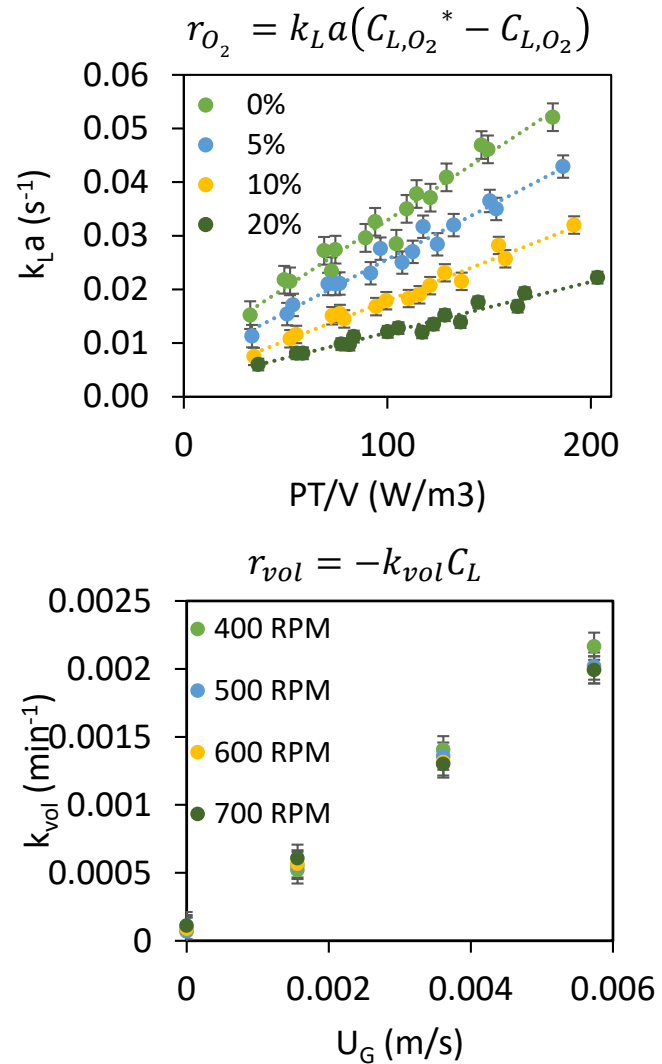
Treatment of PAH-contaminated soil using a soil slurry bioreactor: Experimental analysis and modeling

Douglas O. Pino-Herrera, Yoan Pechaud, Stefano Papirio, Yannick Fayolle, Anne Perez,
David Huguenot, Giovanni Esposito, Eric D. van Hullebusch, Mehmet A. Oturan

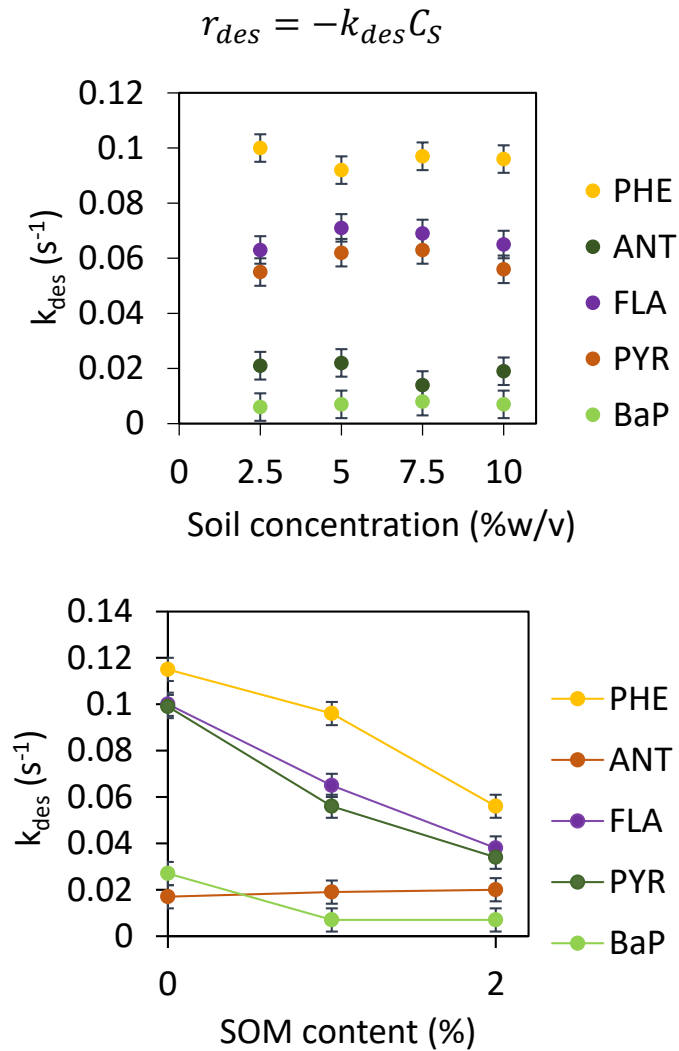
The goal of this study is to understand the influence of operational parameters on the individual mechanisms involved in the removal of PAHs in soil slurry bioreactors (mechanistic approach) in order to model and optimize the process.



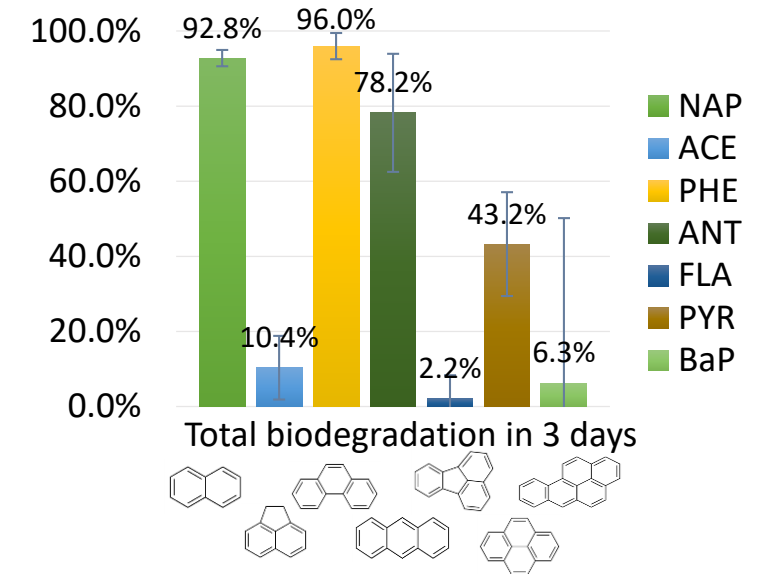
Gas-Liquid transfer



Solid-Liquid transfer



Biodegradation



Conclusions and Perspectives

- Individual mechanisms successfully studied and modelled.
- Better understanding of the soil slurry bioreactor.
- Construction of an integrated model (for designing and optimization).
- Results as a decision making resource for slurry bioreactor processes.