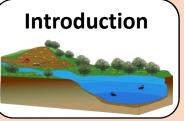
Simplified spectrophotometric acid-base titrations to assess organic matter reactivity

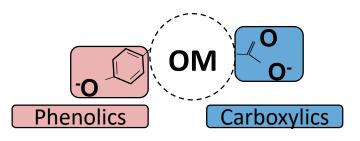
Marawit TESFA^{1*}, Rémi MARSAC¹, Aline DIA¹, Fabrice MAHE² 1 CNRS - UMR 6118 Géosciences Rennes, 35042 Rennes 1 cedex, France 2 Université de Rennes, CNRS, IRMAR - UMR 6625, F-35000 Rennes 1, France

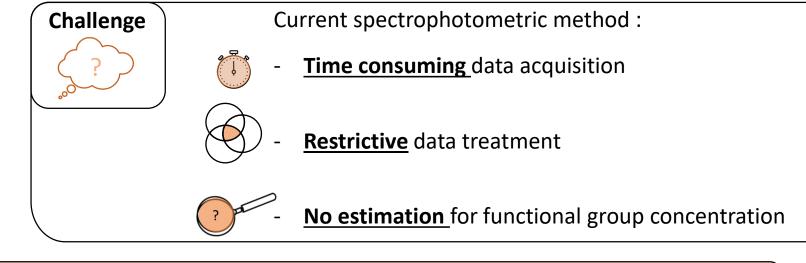


Organic matter (OM) reactivity towards a mineral surface or metallic contaminant is driven by acid-base functional groups

Potentiometric titration is impossible to apply to environmental concentrations of OM → spectrophotometric method needed knrs

Korshin et *al.* 1997 Janot et *al.* 2010

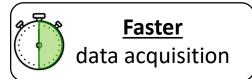




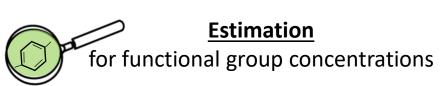


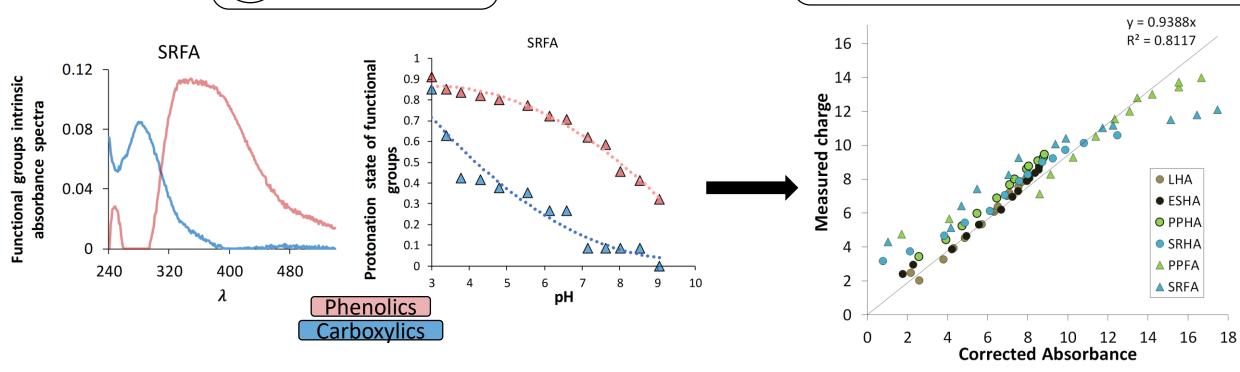
Simplify and optimize functional groups characterization & quantification at environmentally relevant OM concentrations

Our simplified spectroscopic method











Better understanding of OM reactivity towards mineral surfaces or metallic contaminants