

Kinetics and mechanism of P release upon sulfidation of P-containing lepidocrocite

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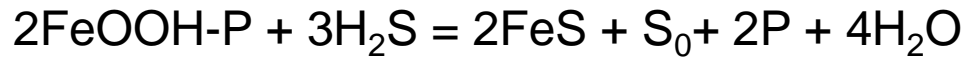


Diffuse phosphorus input to surface waters
-new concepts in removal,
recycling and management-

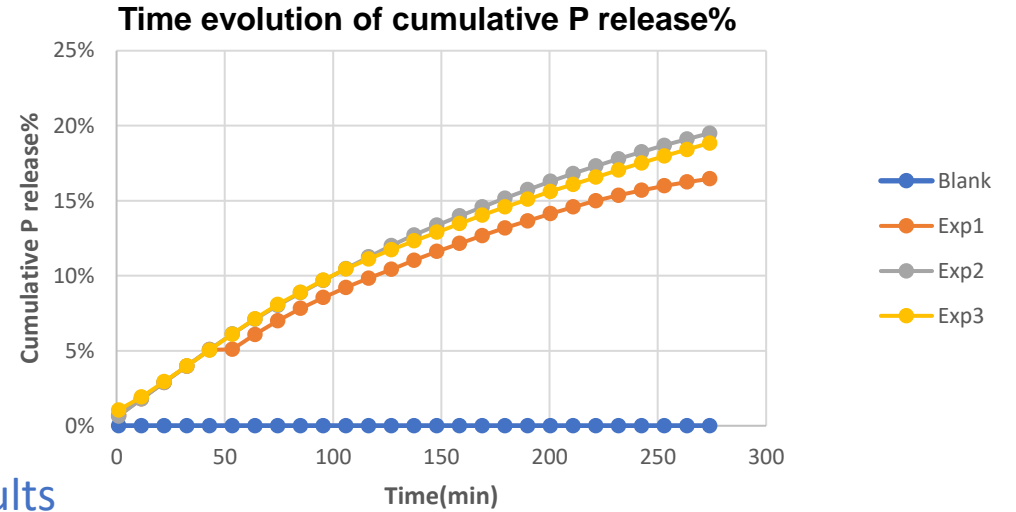


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Sulfidation of P-containing Lepidocrocite:



Fast ligand exchange --> Instantaneous P release?

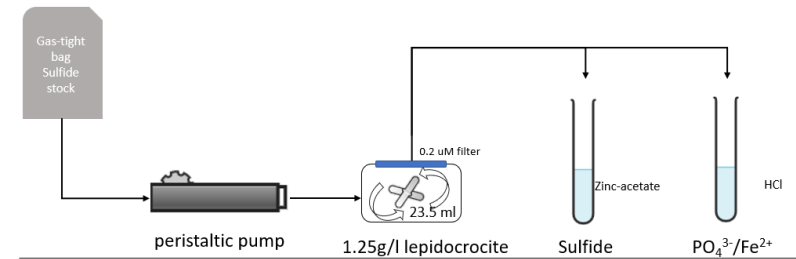


Hypothesis

Results

Experiments

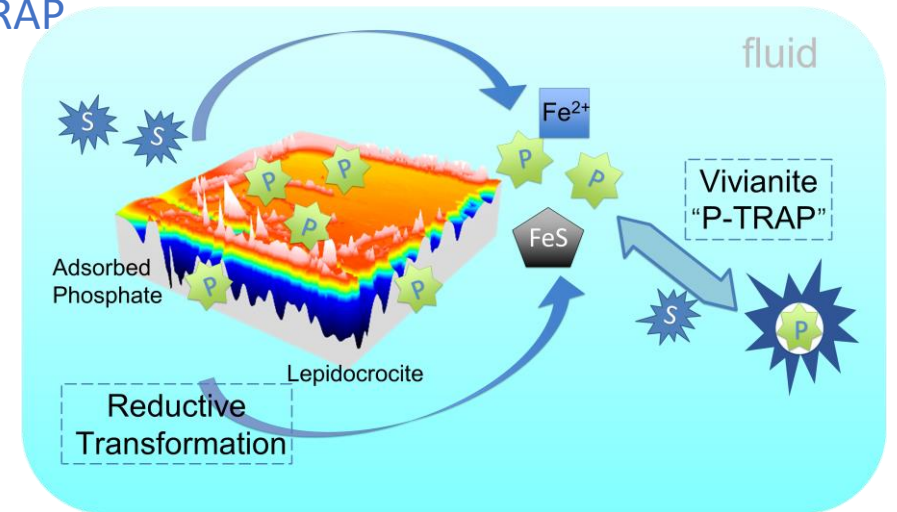
P-TRAP



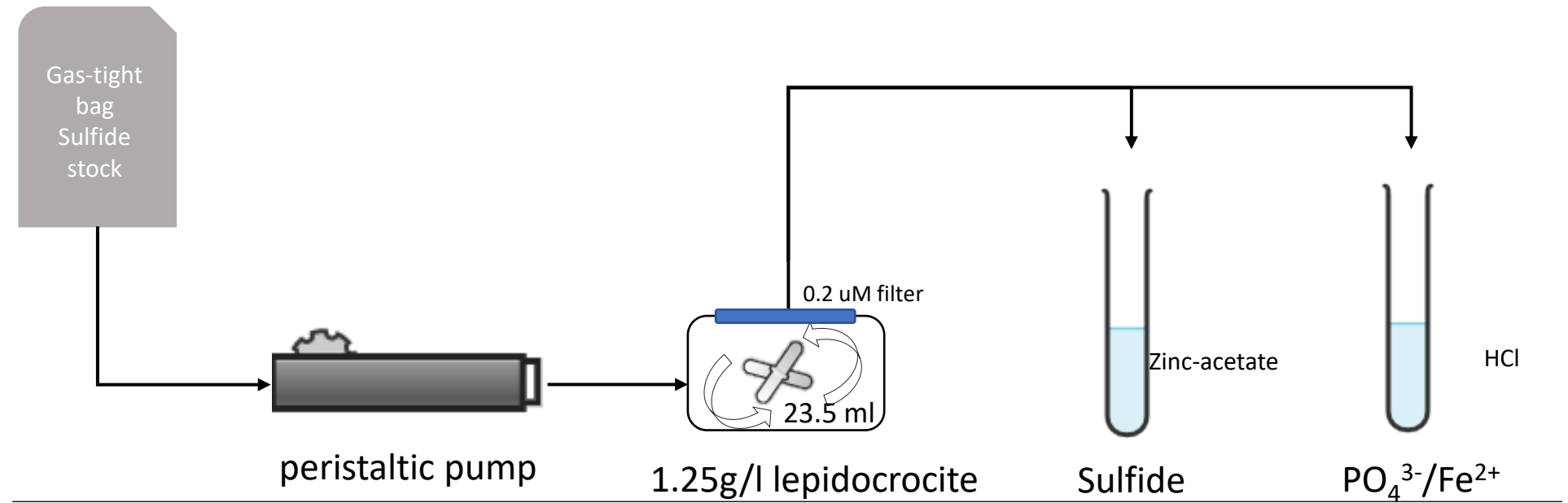
Schematic of Flow-through reactor experiment set-up



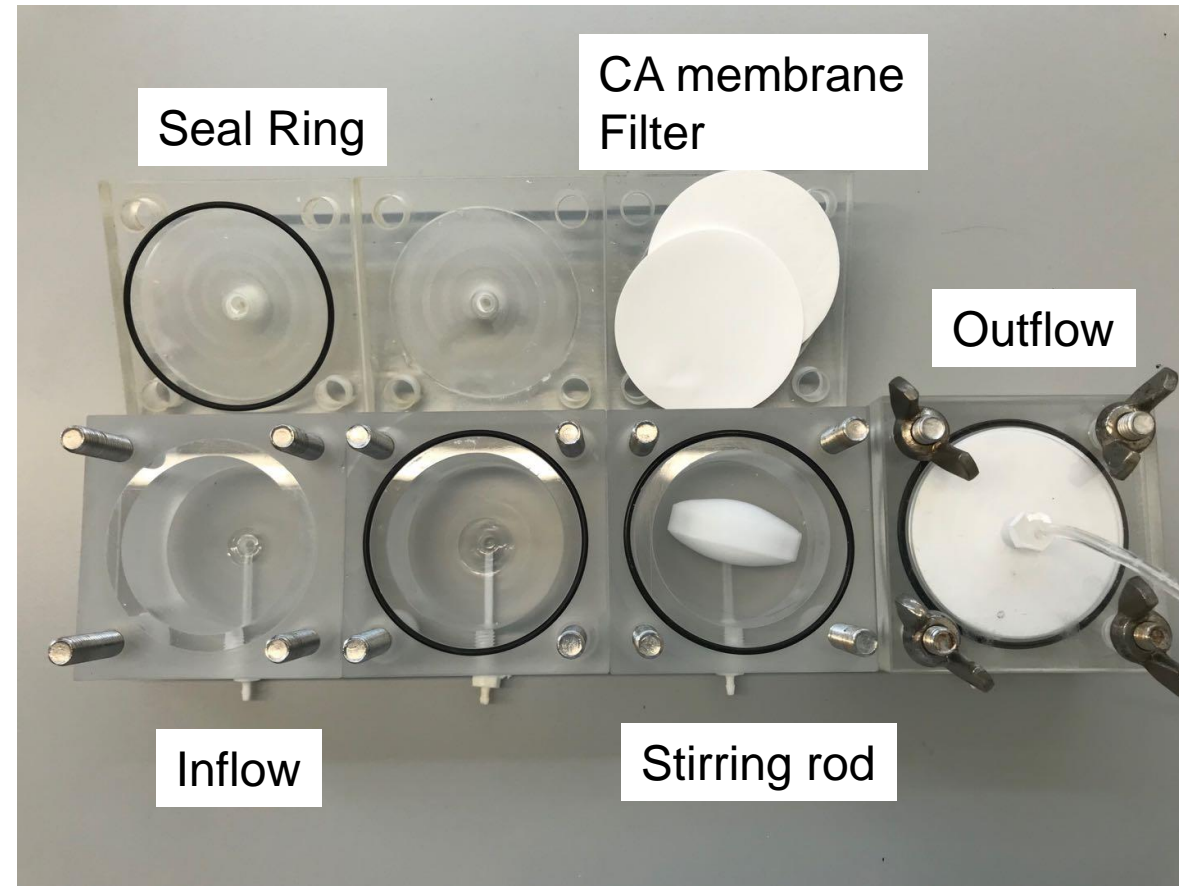
Flow-through reactors



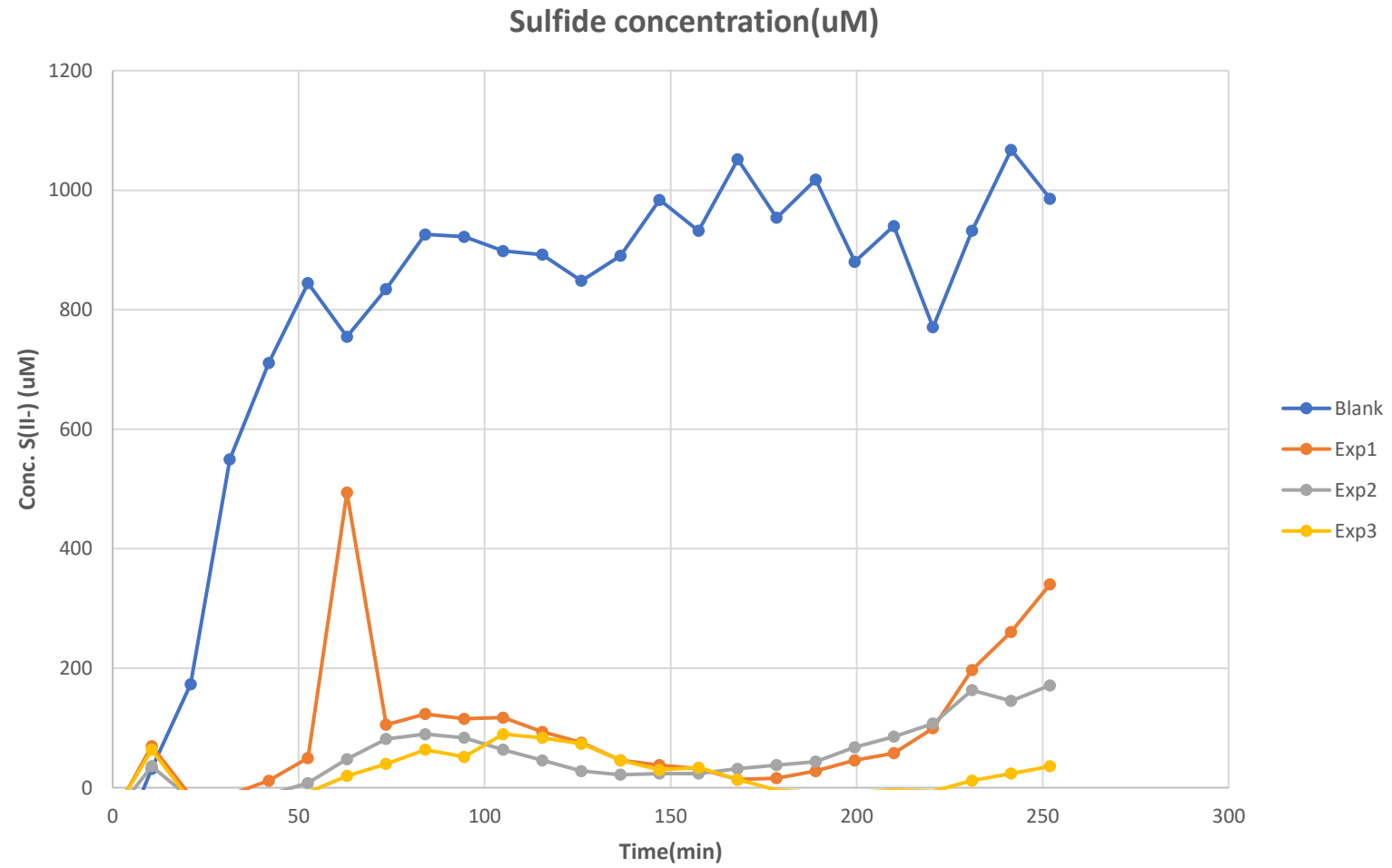
Schematic of sulfide consumption



Reactor Details



Time evolution of sulfide consumption



Time evolution of Fe production and P release

