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Phosphorus speciation in sewage sludge and the sludge-derived biochar by a combination of experimental methods and theoretical simulation

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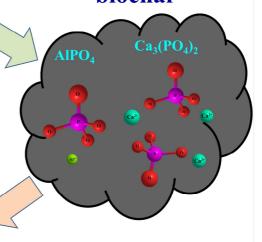
A systematic study including existing experimental methods, advanced techniques, and theoretical simulation

Sequential fractionation/ Independent extraction Solution ³¹P NMR Solid-state ³¹P NMR X-ray diffraction Theoretical simulation

Al&P: both NaOH-& HCl-soluble Ca: dominantly HCl-soluble Ca-P & Al-P: orthophosphate

- 1. Comprehensive speciation of P in sewage sludge & biochar
- 2. Fundamental knowledge basis for P recycling

Sewage sludge pyrolyzed biochar



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