

Biological availability of phosphorus sorbed to titanium mineral processing residues and implications for their use as agricultural soil amendments

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Global P rock production & global reserves / P pollution & waste





Biological availability of phosphorus sorbed to Ti mineral processing residues

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- •Ca- and Fe-rich Ti processing residues (TiPRs) have exceptionally high P sorption capacity
- •CSIRO research: >97% reduction in P leaching to shallow groundwater under TiPR-amended turf farm soils (<u>Douglas et al. 2010</u>) **and** continued turf growth / re-growth in the absence of additional fertilization



Implications for Ti residue use as agricultural soil amendments



