

Supplementary Material

Stabilization/solidification mechanisms of tin tailings and fuming slag-based geopolymers for different heavy metals

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Summary

4 pages, including 1 table and 3 figures.

Table S1. BCR sequential leaching procedures.

Fraction	Procedure	Time and temperature
Acid-soluble	40ml 0.1mol/L HOAc	16h at 22°C
Reducible fraction	40ml 0.5mol/L NH ₄ OH·HCl	16h at 22°C
Oxidizable fraction	10ml H ₂ O ₂ + 50ml 1mol/L NH ₄ OAc	1h at 85°C + 16h at 22°C
residual fraction	10ml HNO ₃ and 4ml HF	16h at 22°C

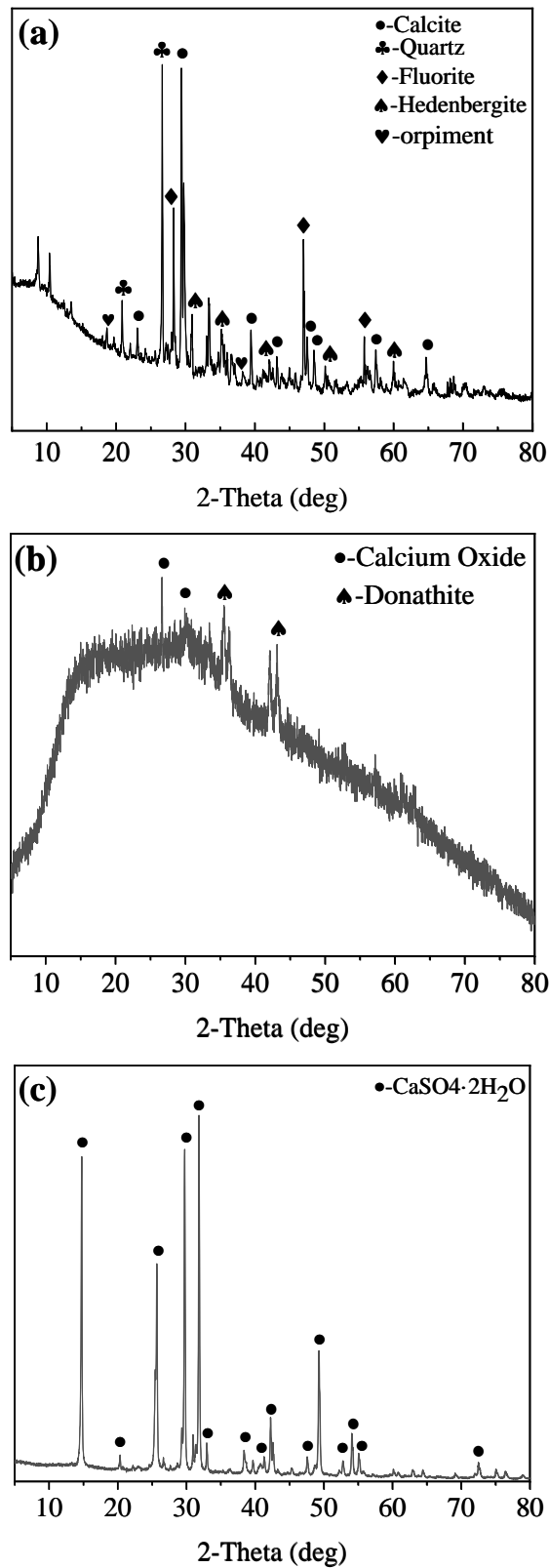


Figure S1. XRD pattern of raw materials: (a) TMT; (b) FS; (c) FDGD.

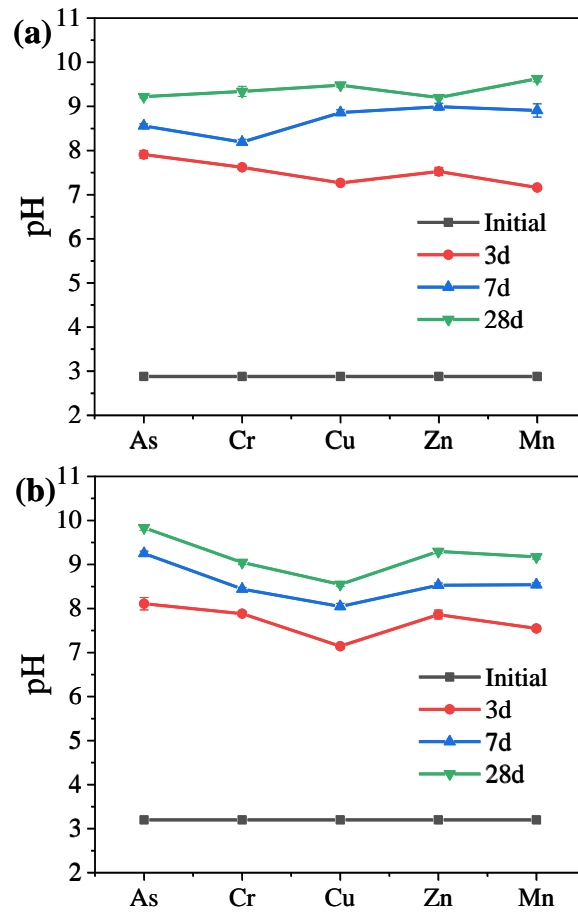


Figure S2. The pH of the leachate of the geopolymer samples containing heavy metals (a: TCLP; b: HJ/T299-2007).

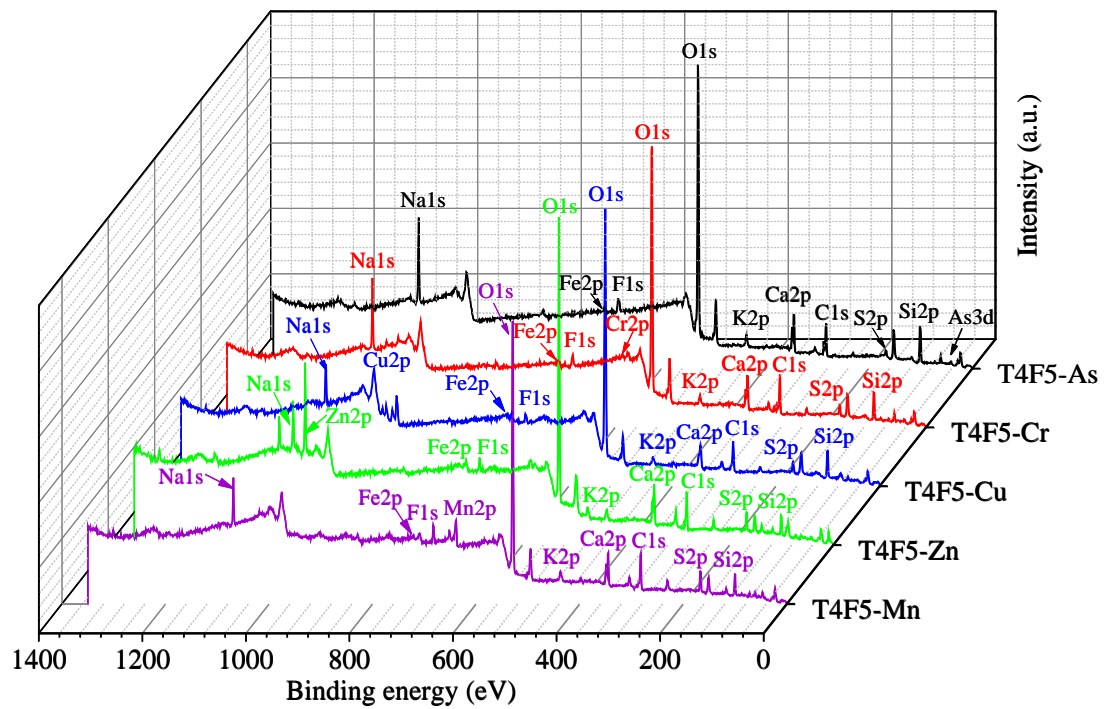


Figure S3. The XPS full spectrum of T4F5 containing different heavy metals.