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Corrigendum: Mechanism of long-term strength retrogression of silica-enriched Portland cement assessed by quantitative X-ray diffraction analysis

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quantitative X-ray diffraction analysis, external standard, partial or no known crystal structure, strength retrogression, oil well cement

A Corrigendum on

Mechanism of long-term strength retrogression of silica-enriched Portland cement assessed by quantitative X-ray diffraction analysis

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In the original article, there were some errors in [Figures 4, 8–11](#) as published. The tobermorite contents of sample 90d-FS-1 and sample 90d-FS-2 were plugged incorrectly in the line plots ([Figure 8](#) and [Figure 11](#)). The mass absorption coefficient (MAC) was not corrected when calculating the phase compositions of the sample 180d-FS-1 ([Figures 4, 8–11](#)). The corrected [Figures 4, 8–11](#) and their captions appear below.

The authors apologize for these errors and state that this does not change the scientific conclusions of the article in any way because these changes are relatively small. The original article has been updated.

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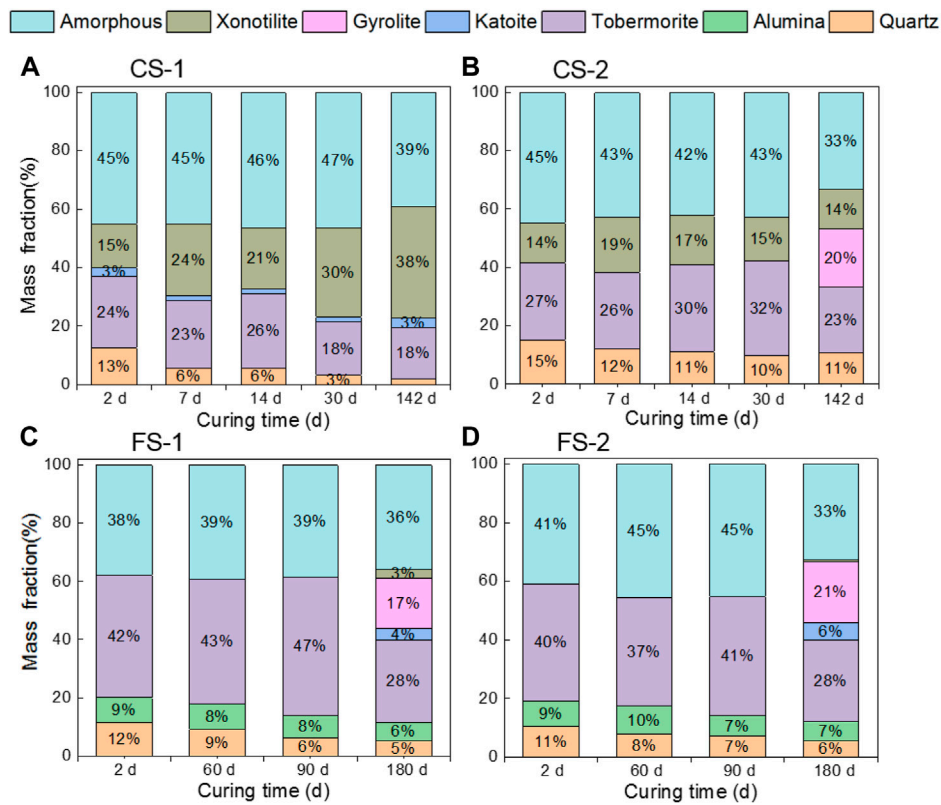


FIGURE 4 (A–D) Phase compositions of hydrated cement quantified using the external standard method at various curing times.

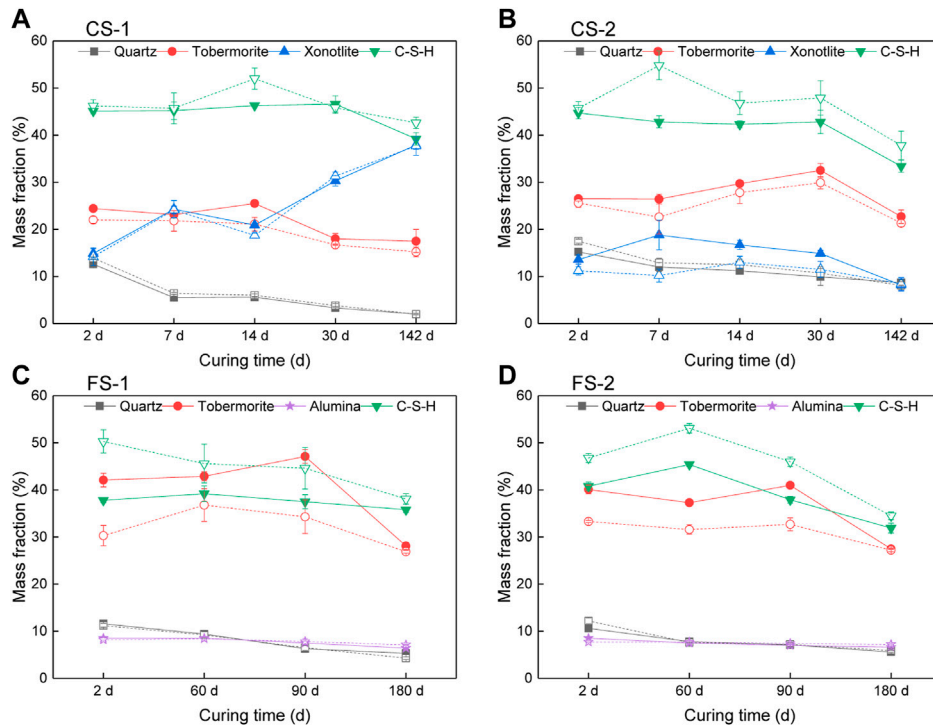


FIGURE 8 Quantitative X-ray diffraction analysis of hydrated cement using the external standard method (filled symbols linked by solid curves) and the POKCS method (hollow symbols linked by dash curves). (A) slurry CS-1 (B) slurry CS-2 (C) slurry FS-1 (D) slurry FS-2.

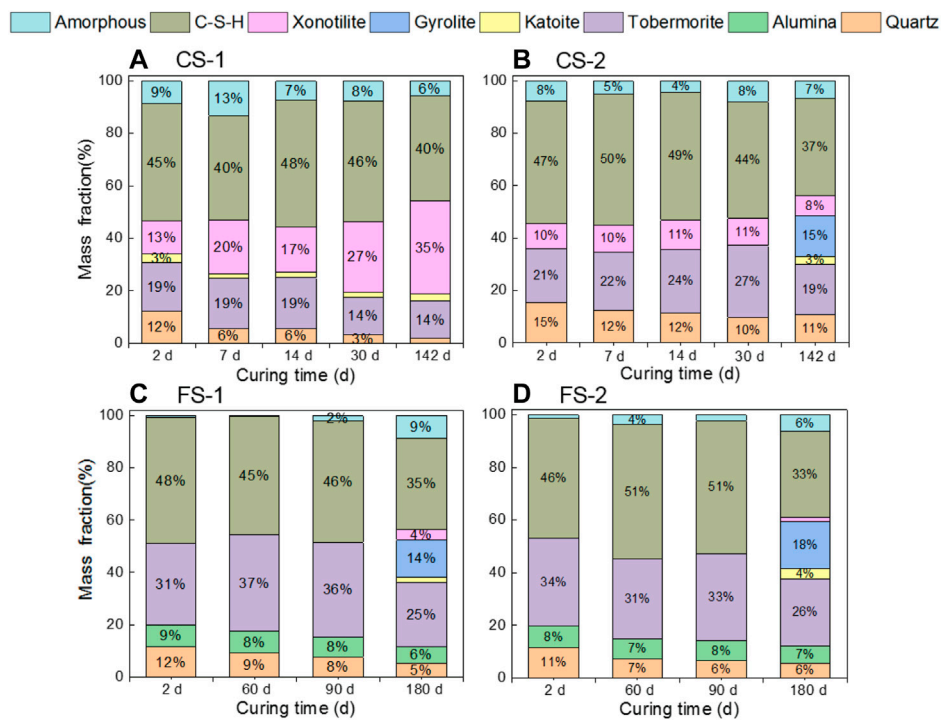


FIGURE 9 (A–D) Phase compositions of hydrated cement quantified using the hybrid method at various curing times.

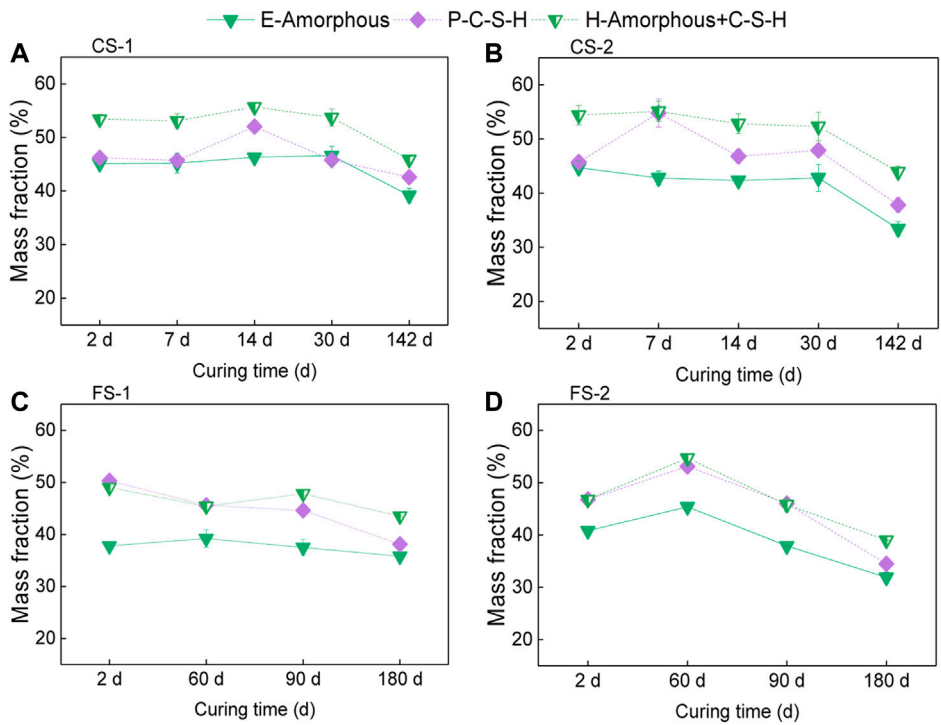


FIGURE 10 Comparison of the amorphous phase content obtained by different methods. (E: the external standard method; P: the PONKCS methods; H: the hybrid method). (A) slurry CS-1 (B) slurry CS-2 (C) slurry FS-1 (D) slurry FS-2.

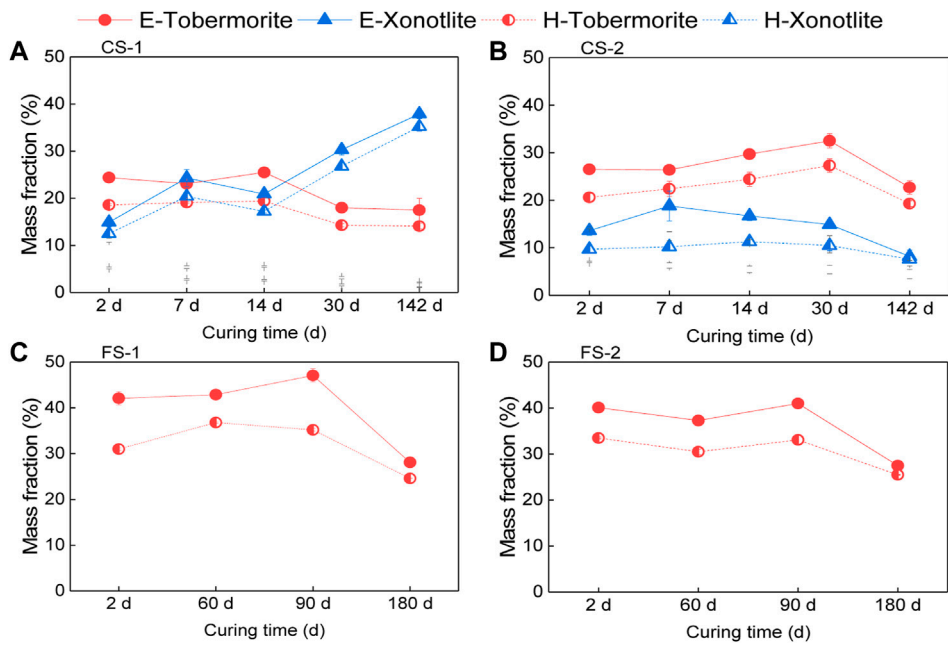


FIGURE 11 Comparison of the crystalline phase contents obtained by different methods. (E: the external standard method; P: the PONKCS methods; H: the hybrid method). (A) slurry CS-1 (B) slurry CS-2 (C) slurry FS-1 (D) slurry FS-2.