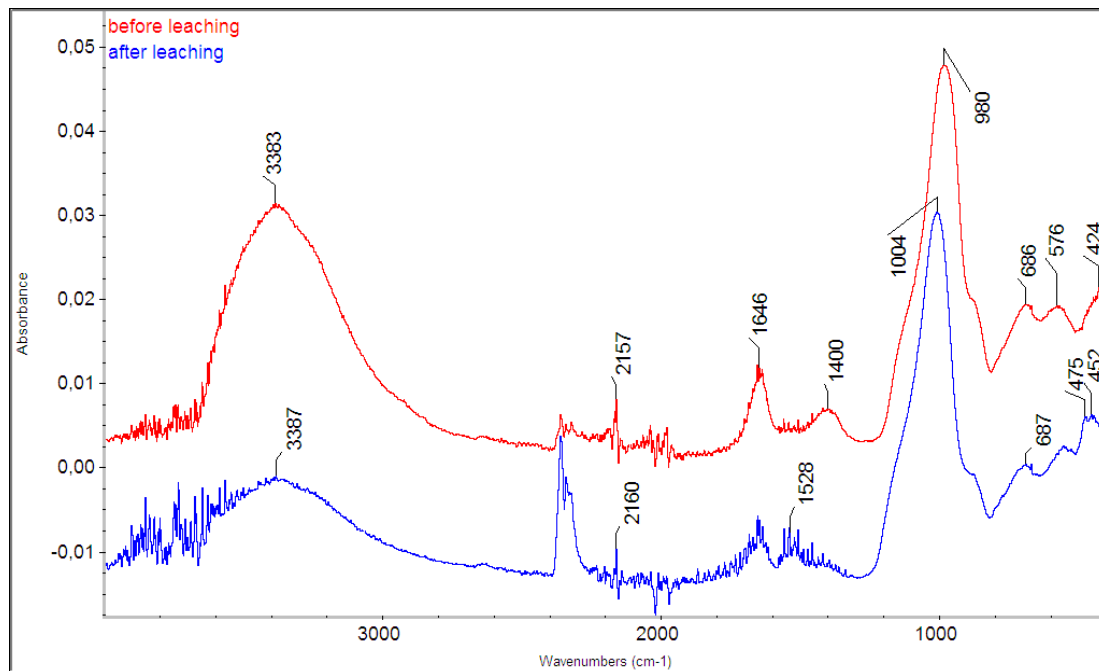
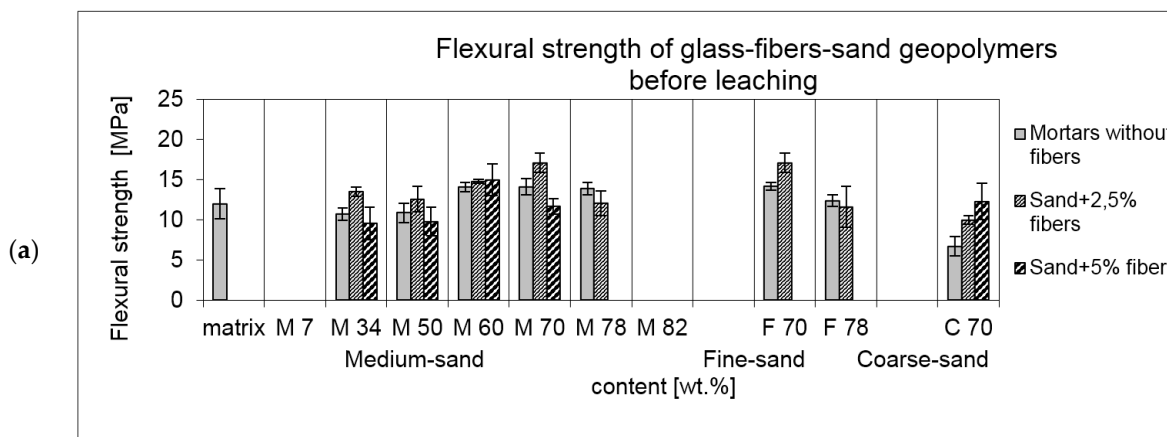


# Supplementary Materials: Brittleness and Chemical Stability of Optimized Geopolymer Composites

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**Figure S1.** Fourier transform infrared (FTIR) spectra of geopolymer composite M60-5 with 5 wt % of glass fibers and 60 wt % of sand collected on the surface of the samples before and after leaching in acid water.



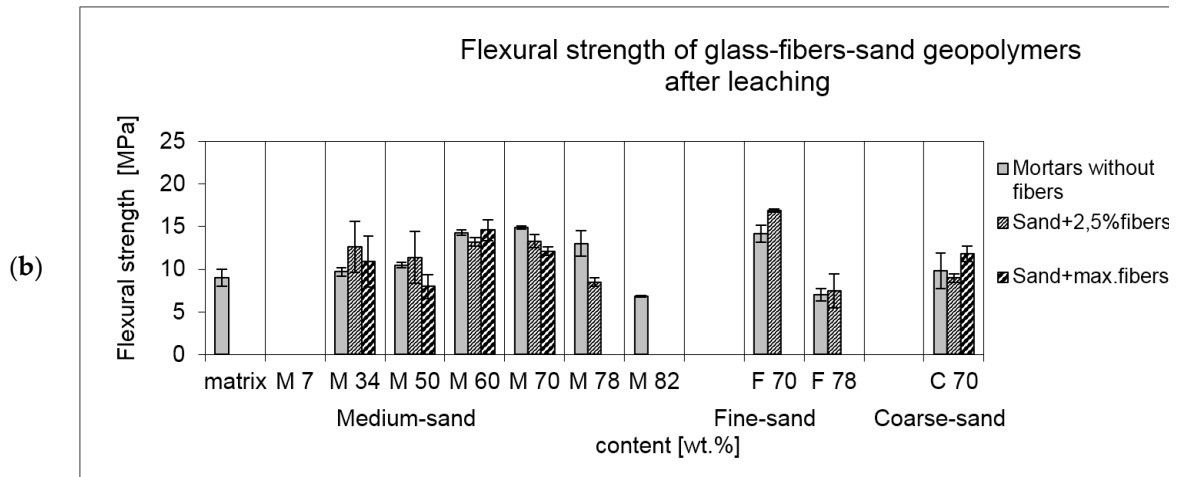


Figure S2. Flexural strength of glass-fibers-sand geopolymers before (a) and after (b) leaching.

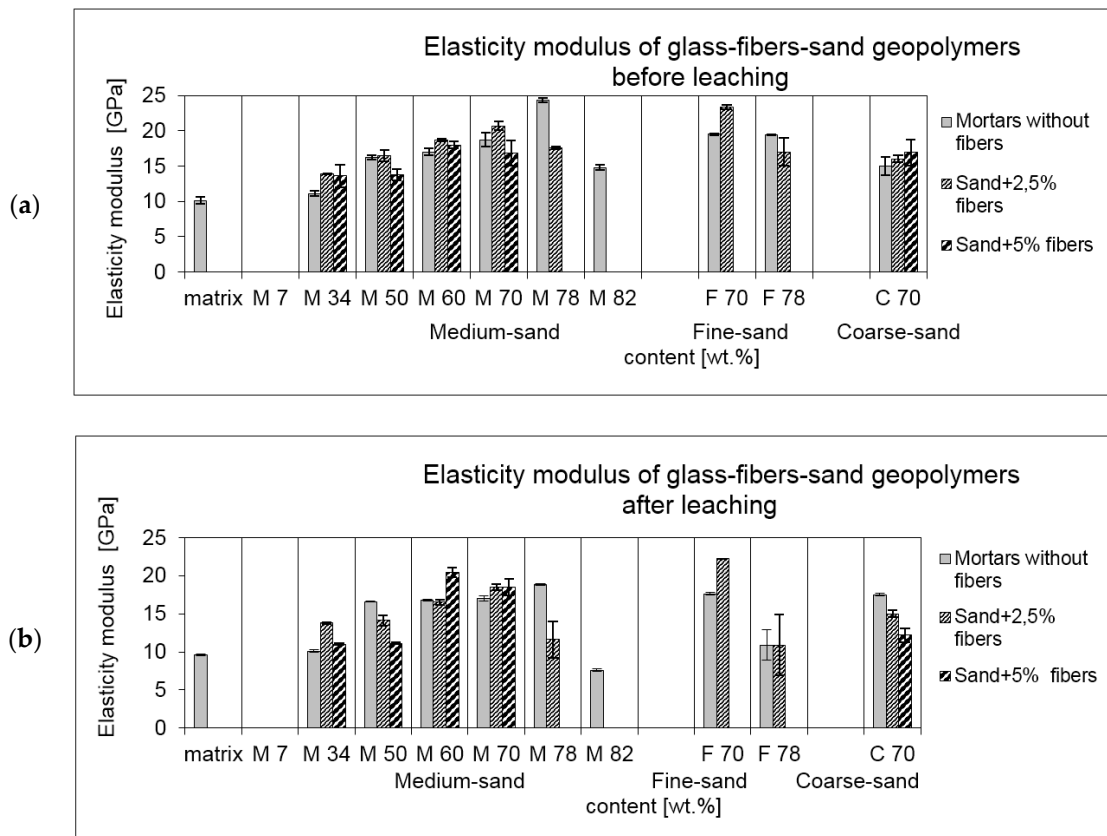
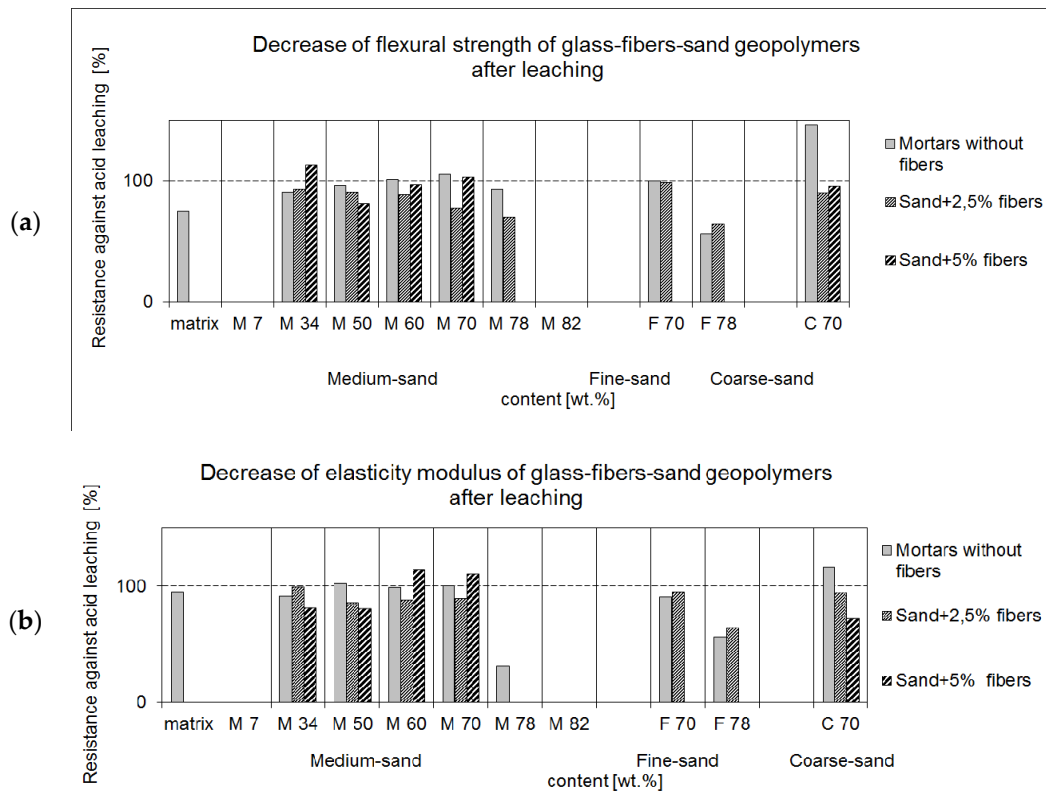


Figure S3. Elasticity modulus of glass-fibers-sand geopolymers before (a) and after (b) leaching.



**Figure S4.** (a) Decrease of flexural strength of glass-fibers-sand geopolymers after leaching; (b) Decrease of elasticity modulus of glass-fibers-sand geopolymers after leaching.