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Figure S1. XRD patterns of raw coal fly ash and fusion product. Symbols: ◇, Mullite (3Al2O3·2SiO2); □, Quartz (SiO2); ＊, Calcium oxide (CaO); 〇, Sodium silicate (Na2SiO3) or Sodium aluminum silicate (NaAlSi2O6).

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Figure S2. Nitrogen adsorption–desorption isotherms of geopolymer samples. Filled and empty symbols represent adsorption and desorption branches, respectively.

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Figure S3. UV Vis DRS spectra of Co-geopolymer and original geopolymer.