

ELECTRONIC SUPPLEMENTARY DATA

Clays and Clay Minerals

Solubility of calcined kaolinite, montmorillonite and illite in high molar NaOH and suitability as precursors for geopolymers

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Fig. S1 Solubility of Si of Certasol WG (all NaOH concentrations, reaction time 24 h)

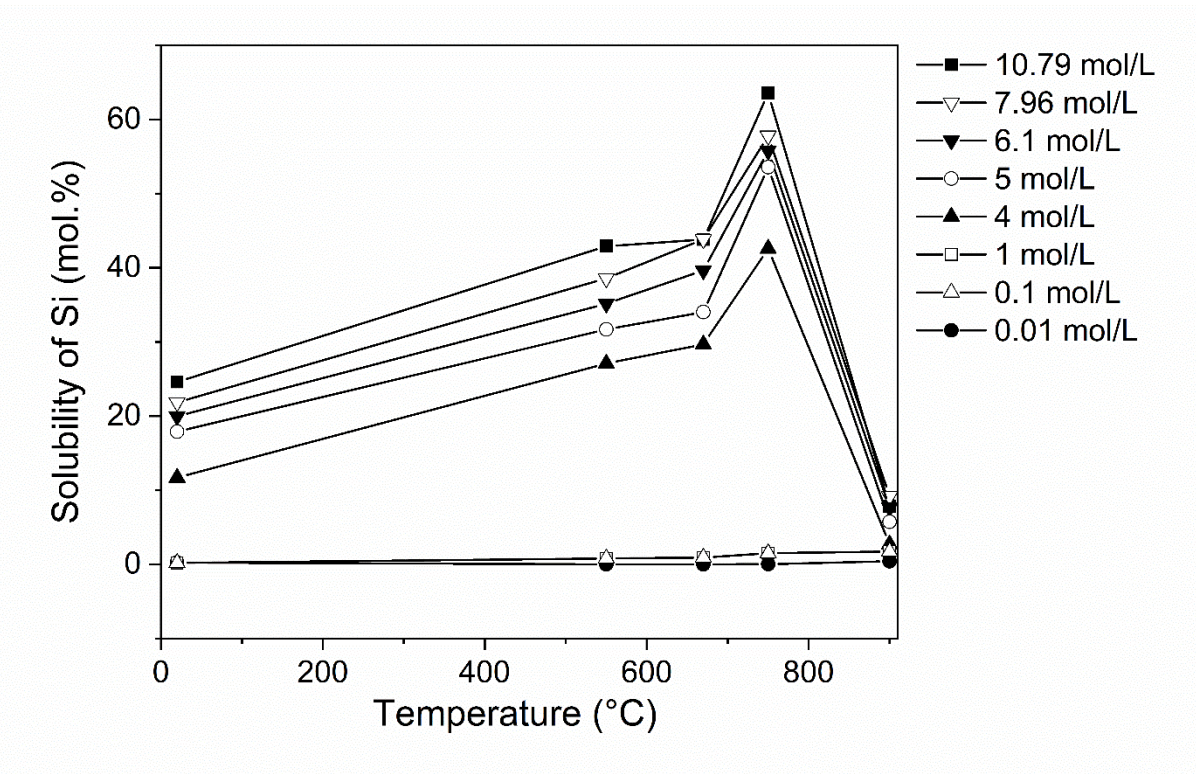


Fig. S2 Solubility of Si of Arginotec INX (all NaOH concentrations, reaction time 24 h)

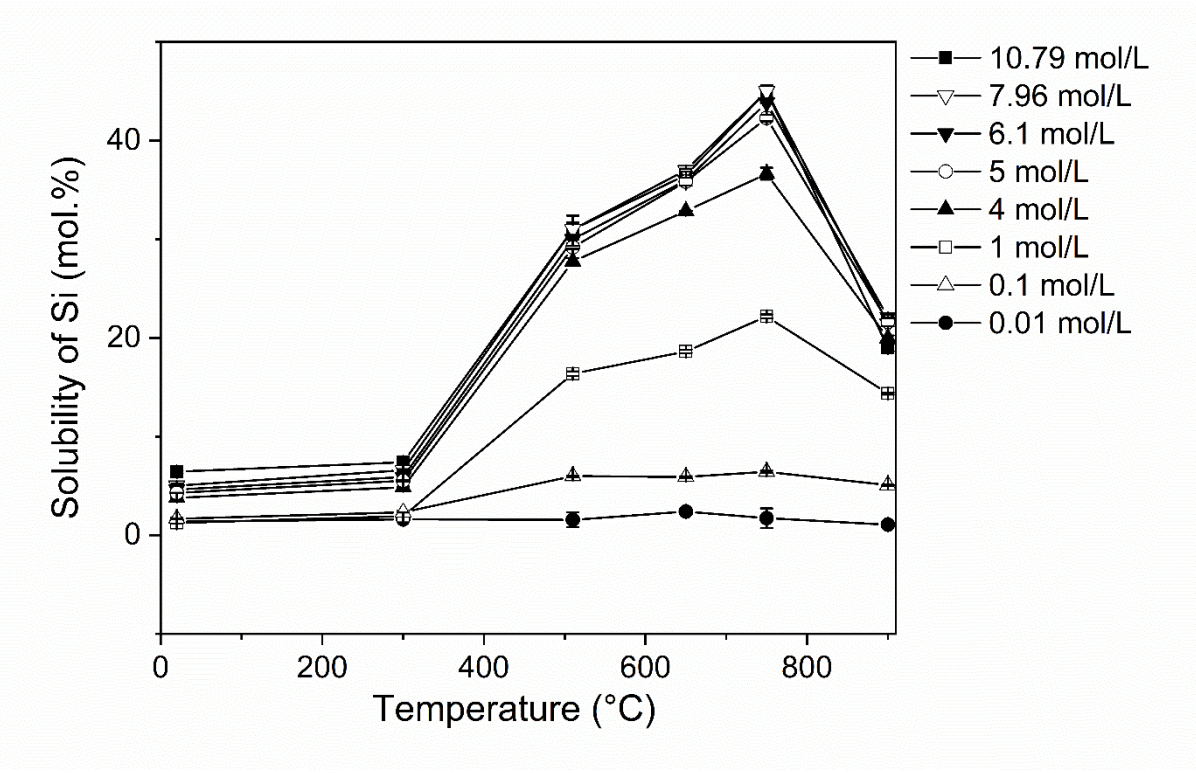


Fig. S3 Total dissolved Si of Ceratosil WG (reaction time 24 h)

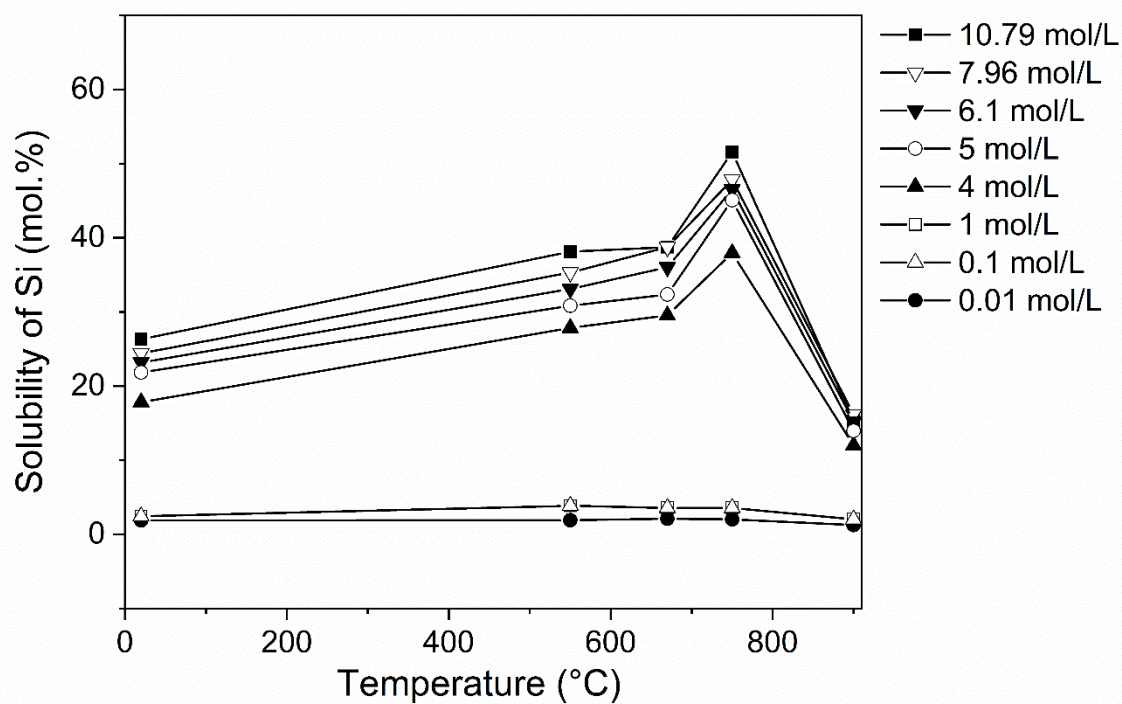


Fig. S4 Total dissolved Al of Ceratosil WG (reaction time 24 h)

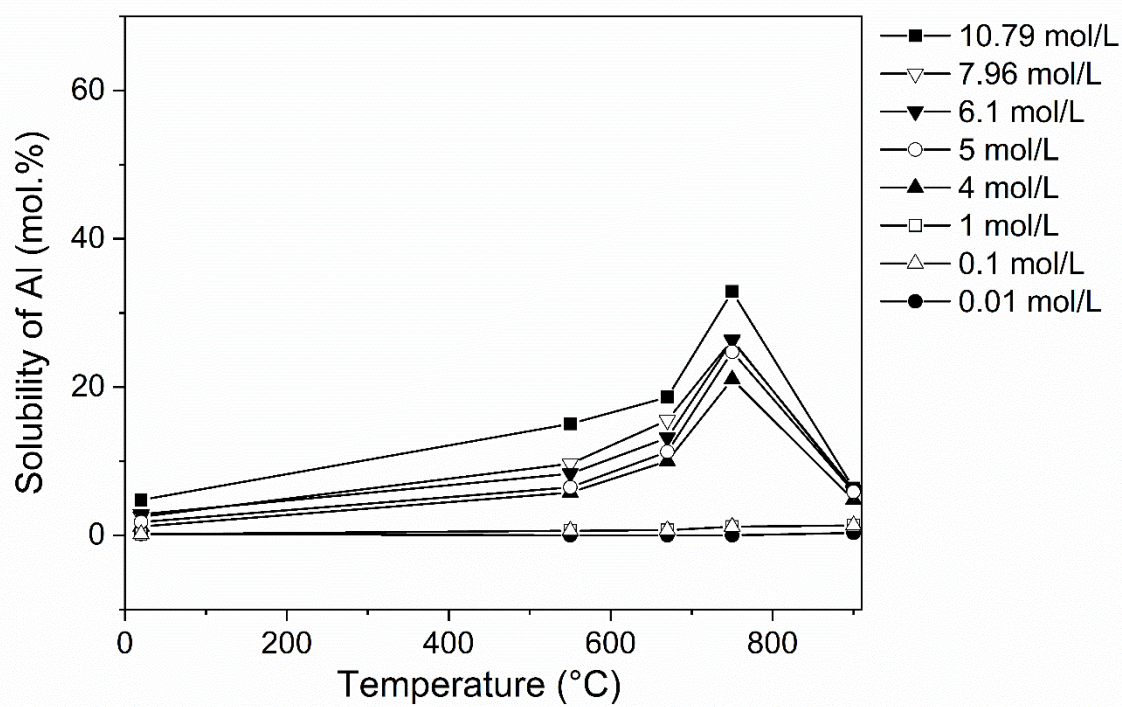


Fig. S5 Total dissolved Si of Arginotec INX (reaction time 24 h)

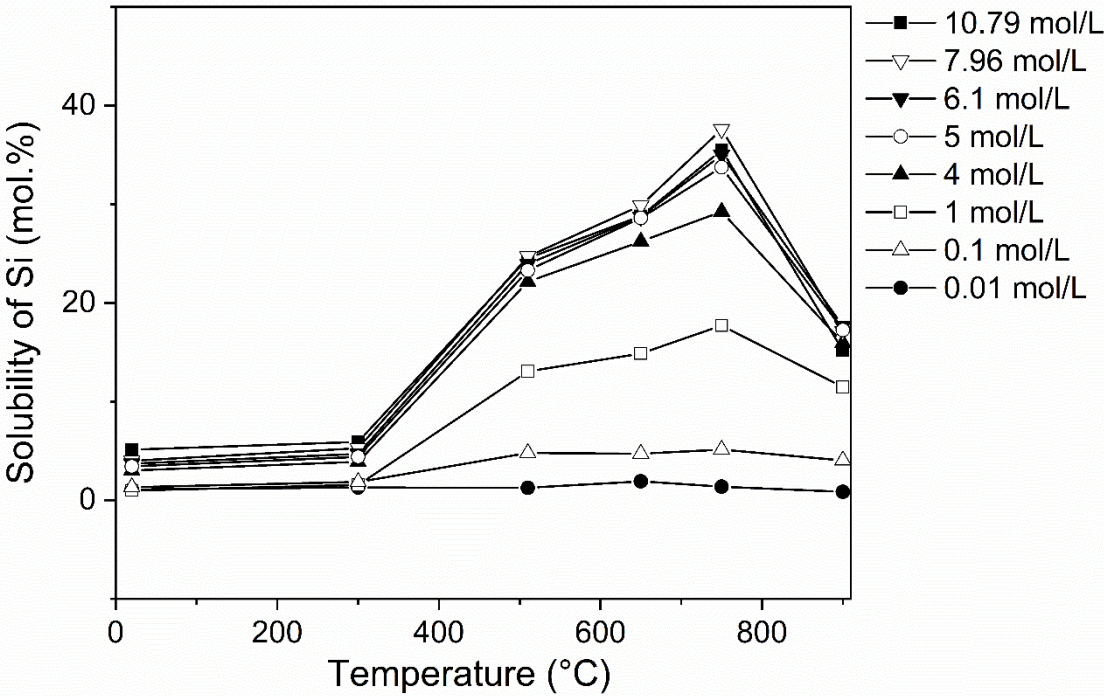


Fig. S6 Total dissolved Al of Arginotec INX (reaction time 24 h)

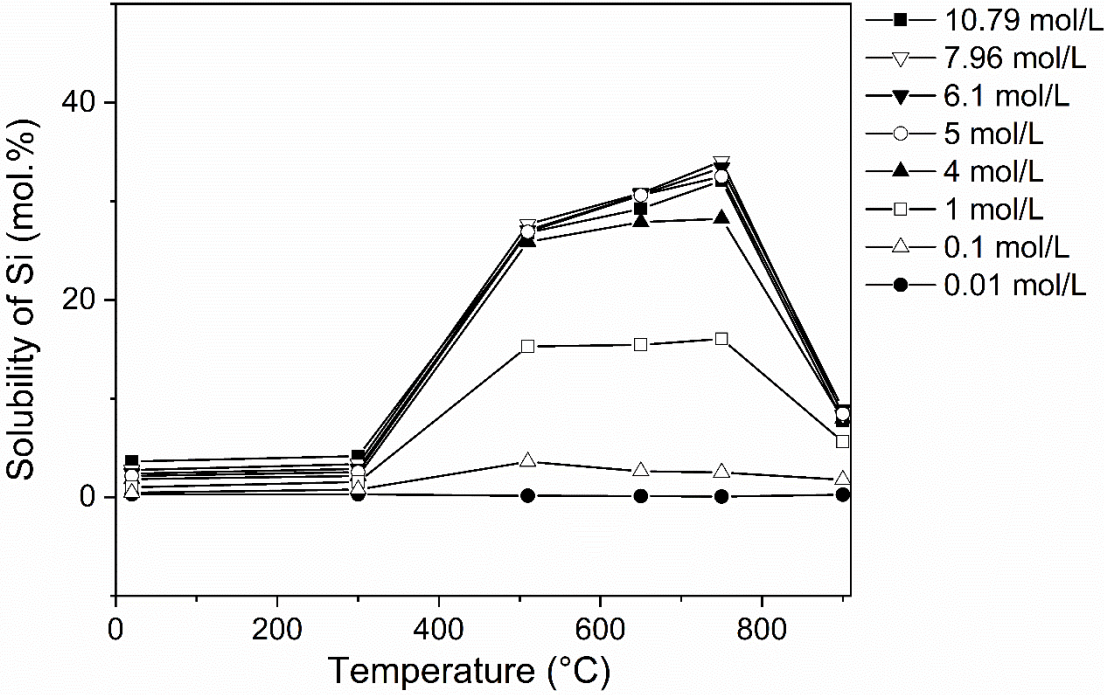


Fig. S7 Qualitative phase analysis of KBE-1 after calcination at different temperatures

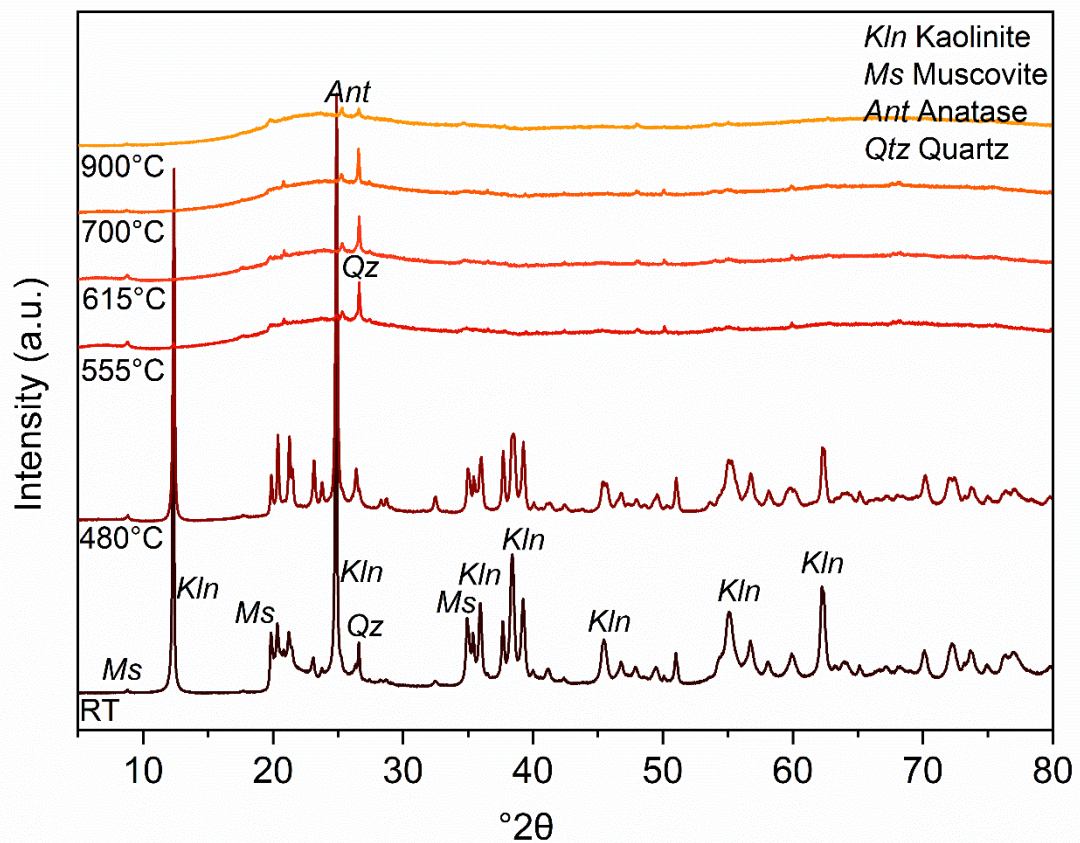


Fig. S8 Qualitative phase analysis of Ceratosil WG after calcination at different temperatures

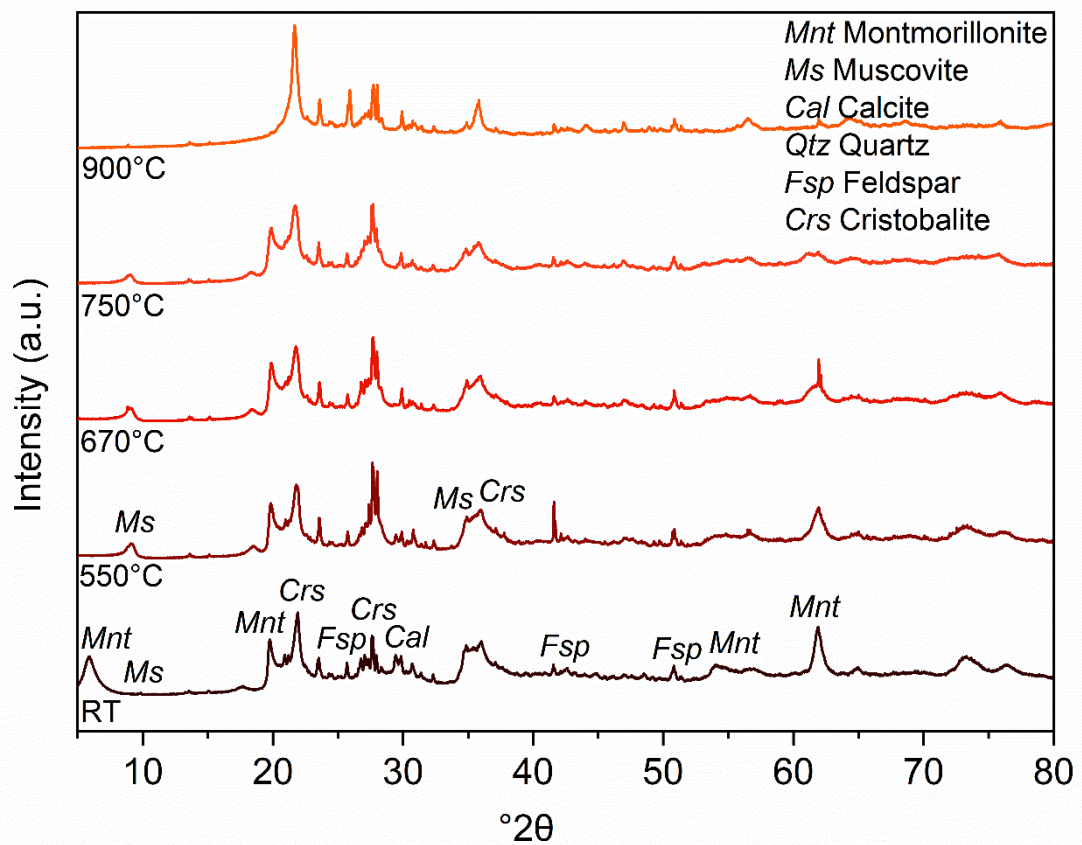


Fig. S9 Qualitative phase analysis of Arginotec INX after calcination at different temperatures

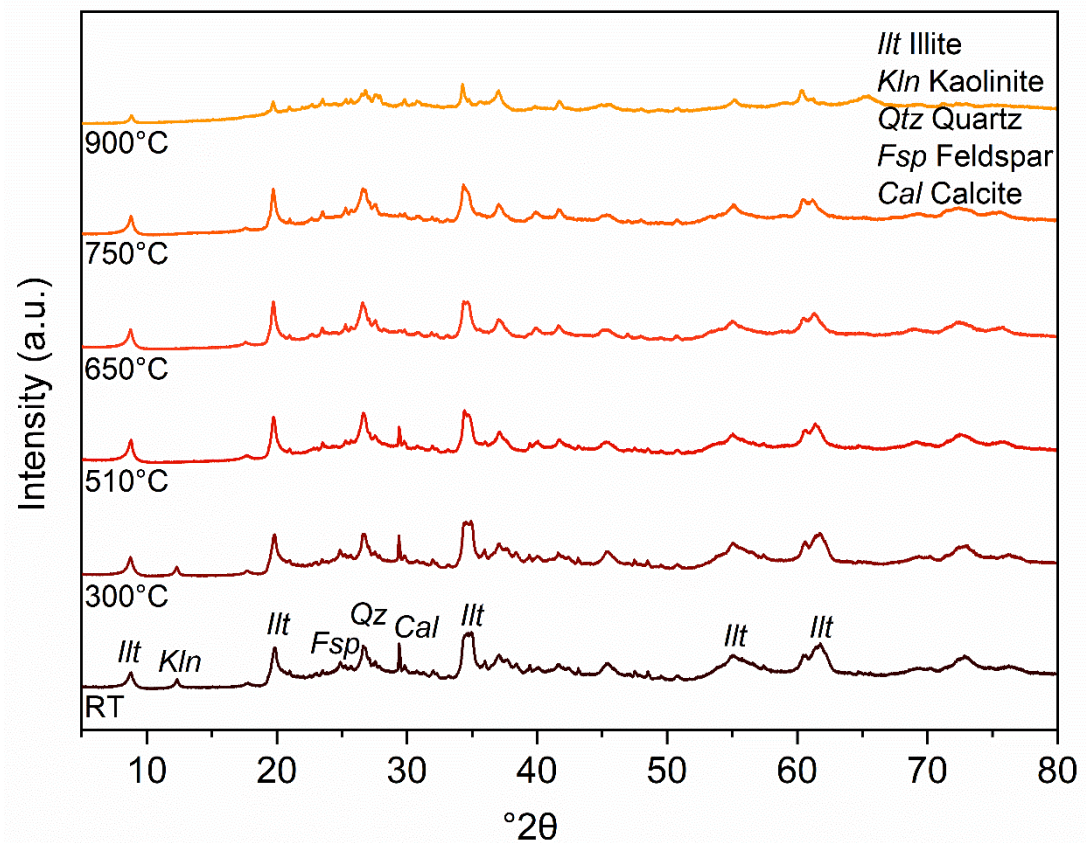


Fig. S10 Differentiation between cristobalite and opal-C (according to Elzea et al., 1994)

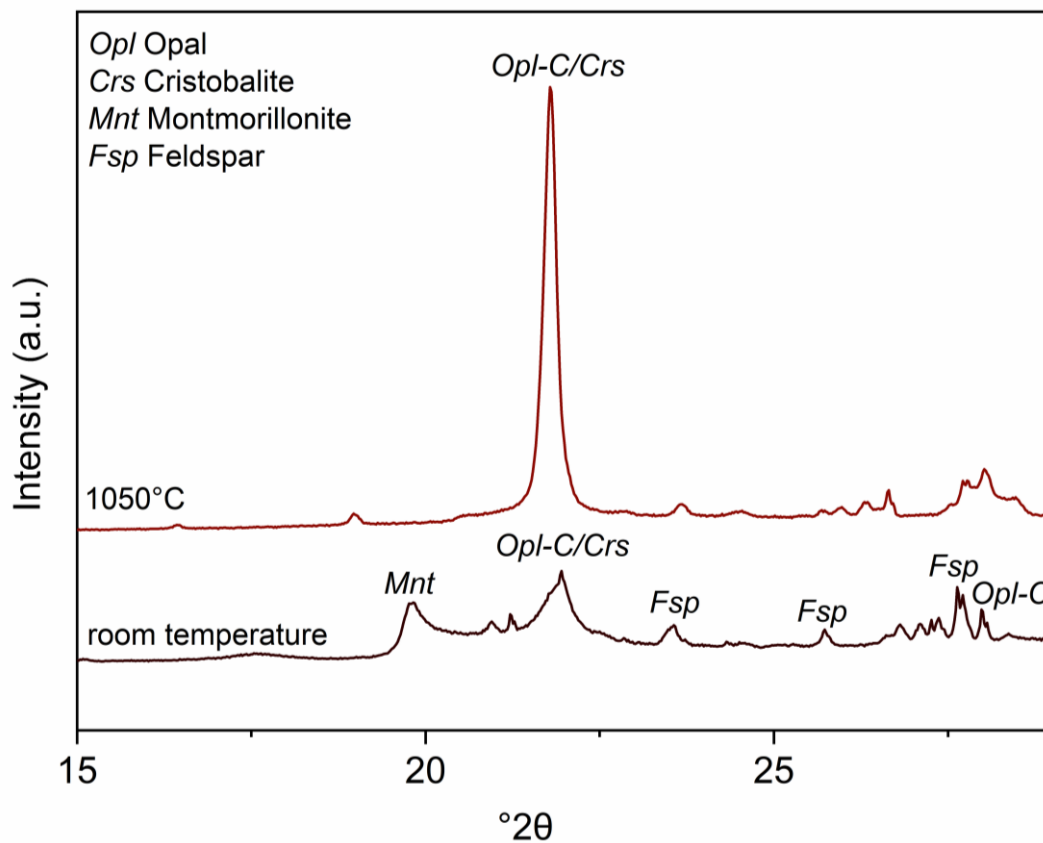


Fig. S11 Qualitative phase analysis of residues (KBE-1 700°C, Ceratosil WG 750°C, and Argintotec INX 750°C) after alkaline treatment in 10.79 mol/L NaOH (7 d reaction time)

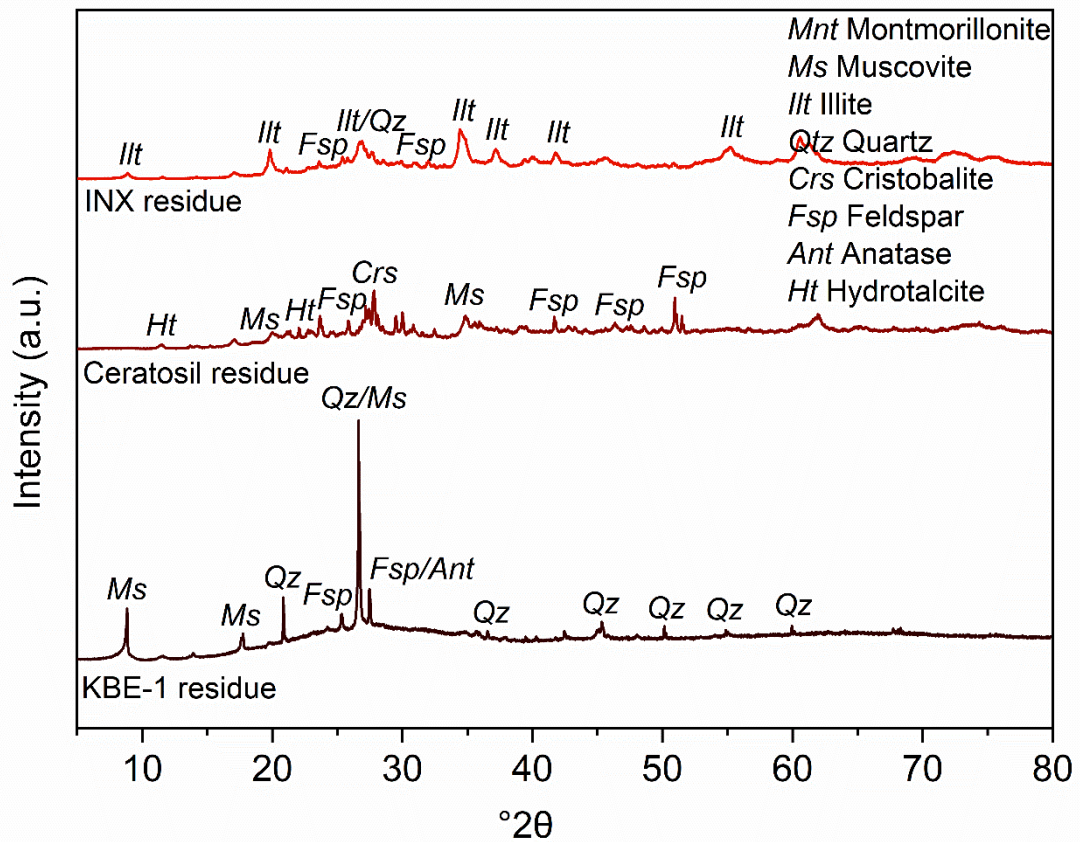


Fig. S12 Solubility of Si of KGa-2 (all NaOH concentrations, reaction time 24 h)

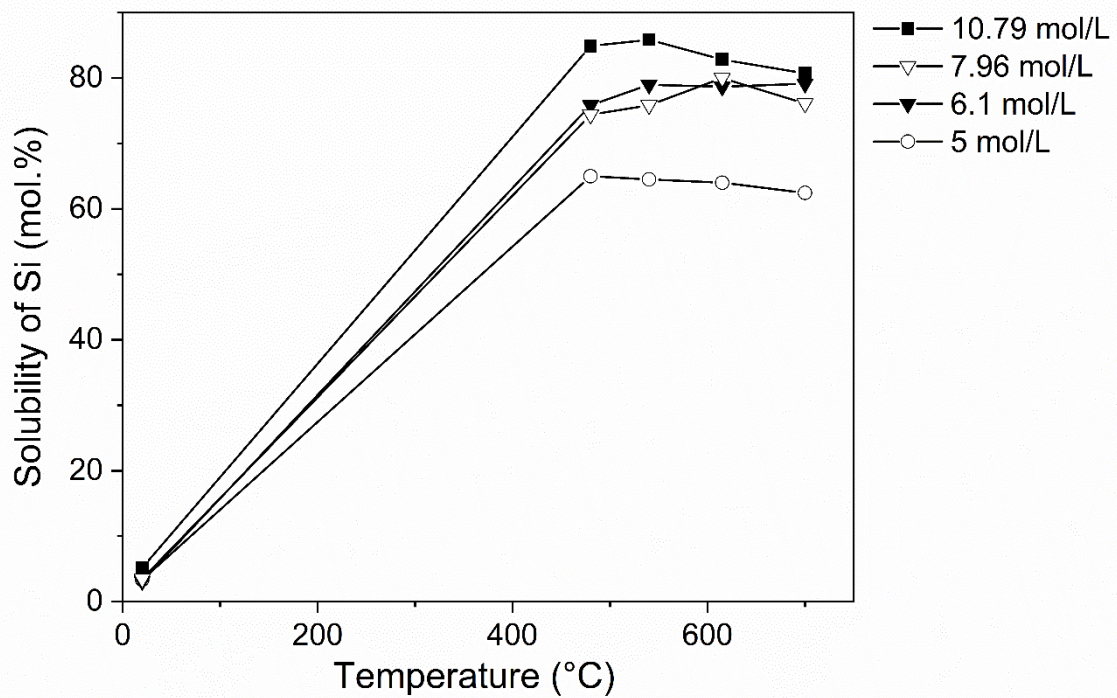


Fig. S13 Solubility of Al of KGa-2 (all NaOH concentrations, reaction time 24 h)

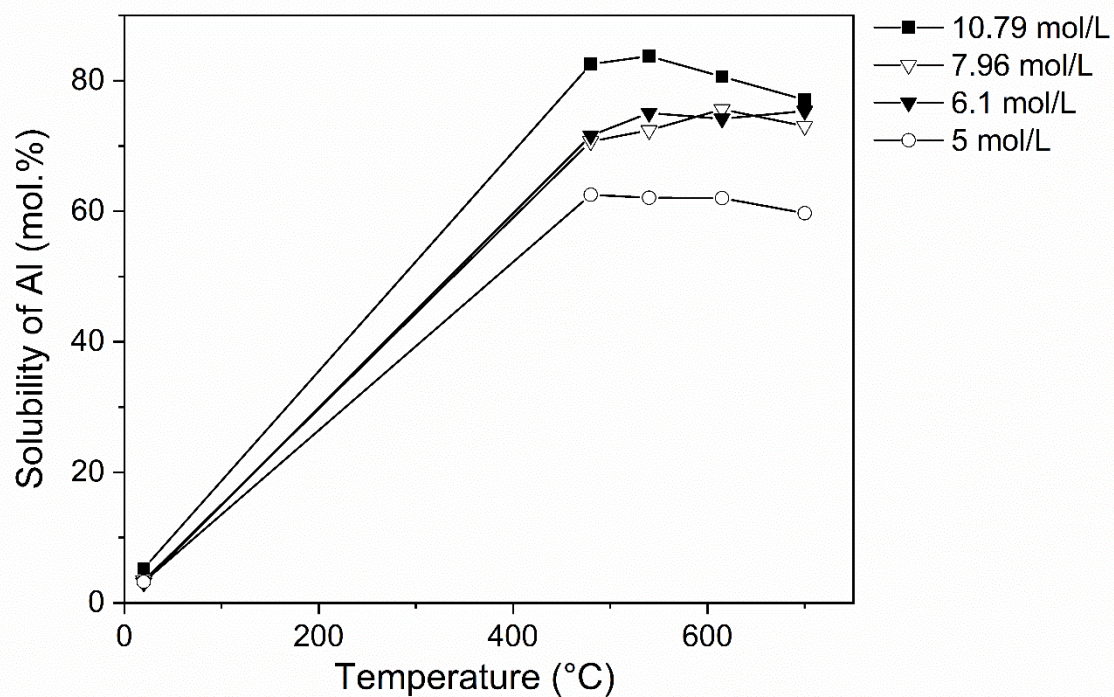


Fig. S14 Solubility of Si of Volclay (all NaOH concentrations, reaction time 24 h)

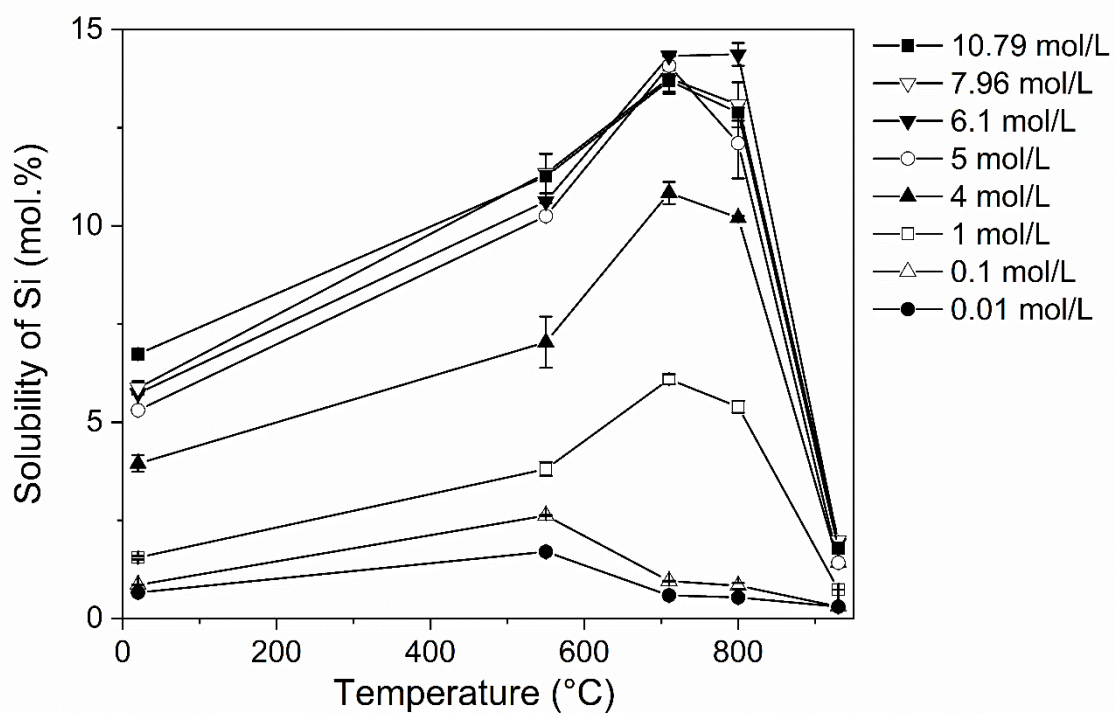


Fig. S15 Solubility of Al of Volclay (all NaOH concentrations, reaction time 24 h)

