

Supplementary Material

Article

Oxygen Blown Gasification of Pulp Mill Bark Residues for Synthetic Fuel Production

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Table S1. Elemental composition [mol-%] of bottom ash from softwood and hardwood bark measured using SEM-EDS. The average and standard deviations were calculated based on measurements of three different spots per sample.

Element	Softwood bark		Hardwood bark	
	Average [mol-%]	St.dev.	Average [mol-%]	St.dev.
Oxygen (O)	50.7	12.3	48.9	9.7
Carbon (C)	20.9	16.1	26.2	16.5
Silicon (Si)	14.0	5.5	8.9	3.3
Calcium (Ca)	5.1	4.4	8.6	3.0
Iron (Fe)	2.1	2.5	1.1	1.4
Potassium (K)	1.5	1.1	1.1	0.4
Aluminum (Al)	2.8	1.4	2.3	0.9
Magnesium (Mg)	1.1	0.5	1.2	0.4
Phosphorus (P)	0.4	0.5	0.6	1.2
Sodium (Na)	0.8	0.6	0.7	0.2
Manganese (Mn)	0.2	0.6	0.1	<0.1
Titanium (Ti)	0.3	0.5	0.1	0.1
Sulfur (S)	<0.1	<0.1	0.1	0.1
Chlorine (Cl)	<0.1	<0.1	<0.1	<0.1

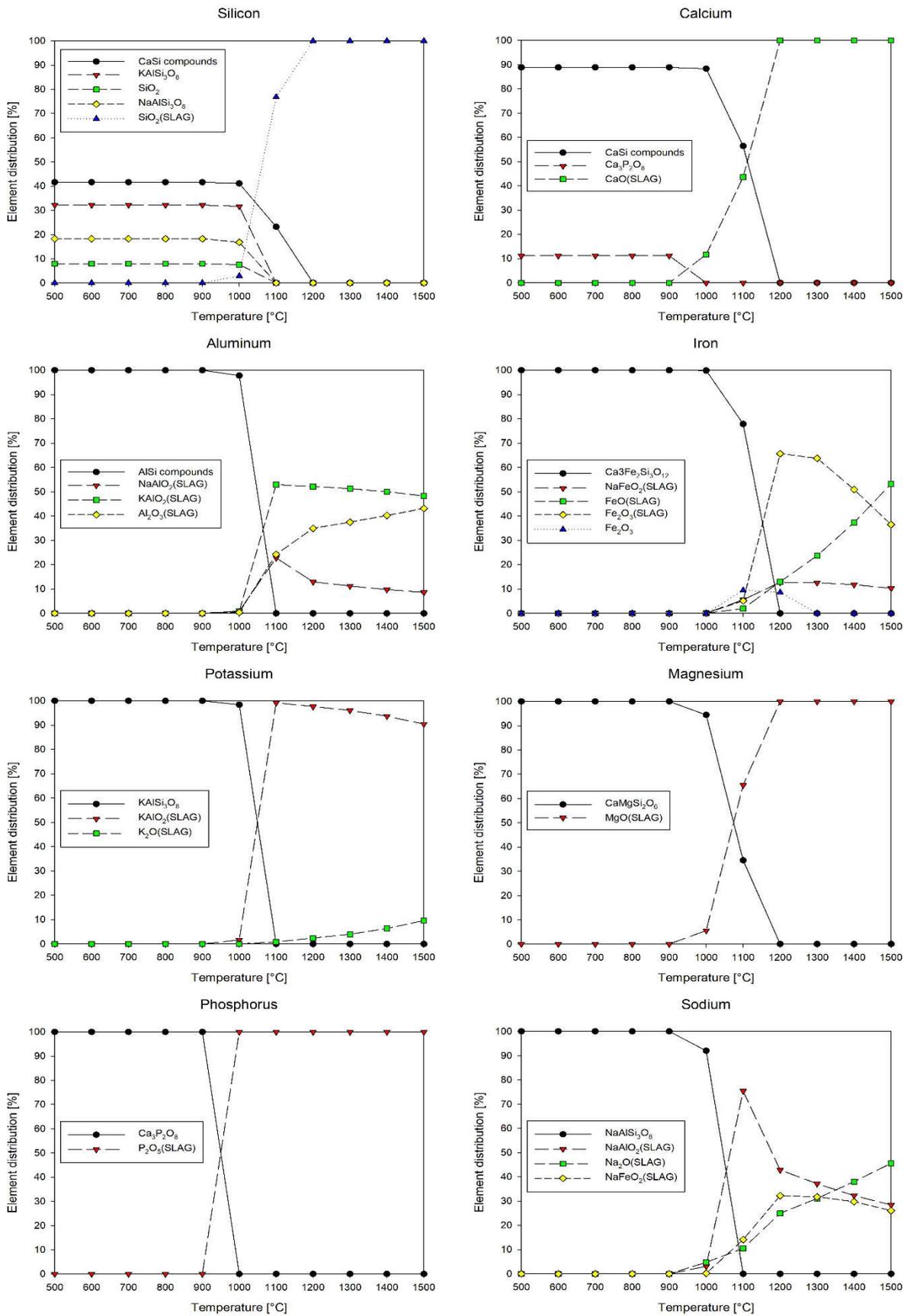


Figure S1. Predicted distribution of major inorganic elements from softwood bark as a function of process temperature [°C].

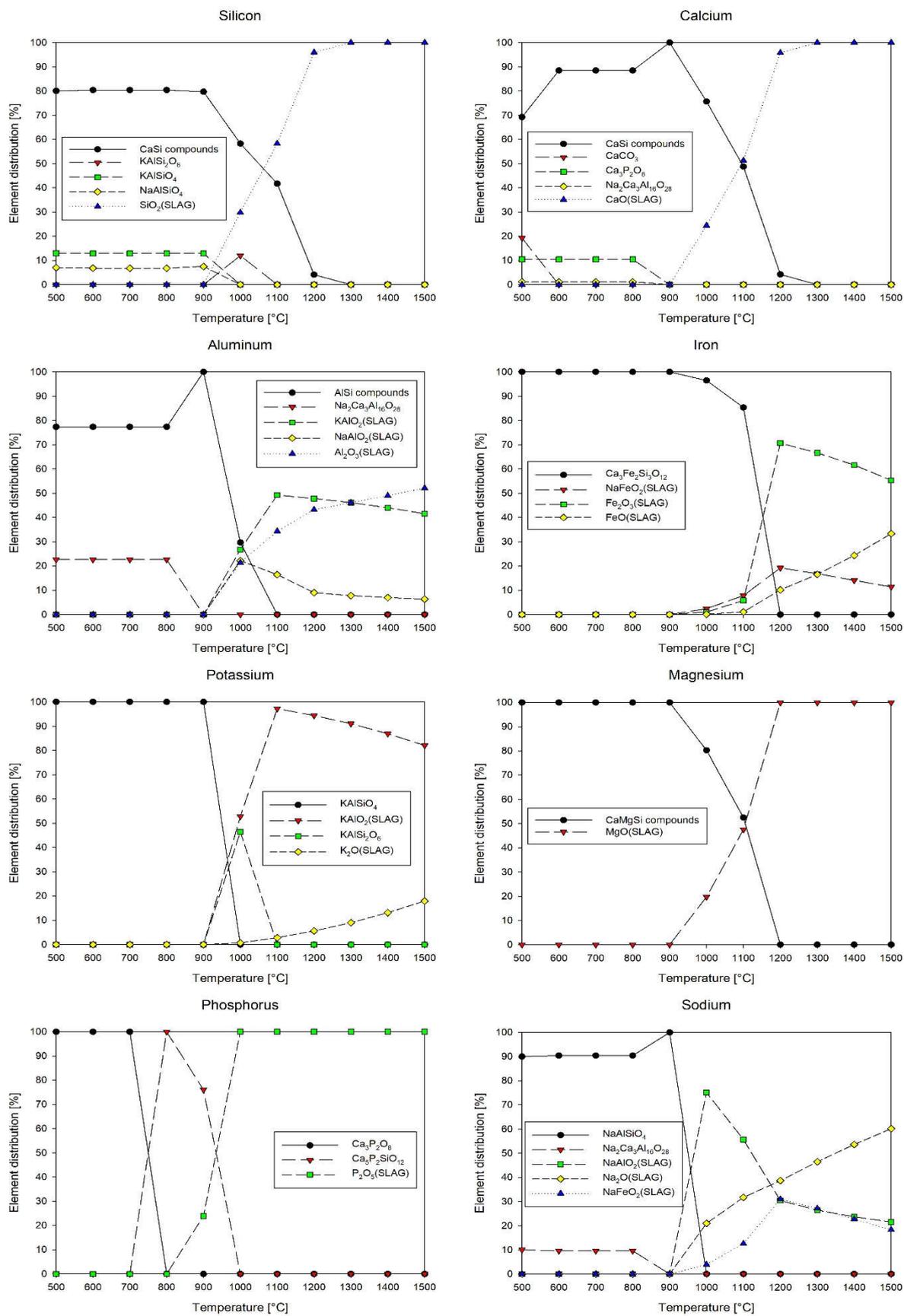


Figure S2. Predicted distribution of major inorganic elements from hardwood bark as a function of process temperature [°C].