

Supplementary Information

Integrated Synthesis of Zeolites Using Coal Fly Ash: Element Distribution in the Products, Washing Waters and Effluent

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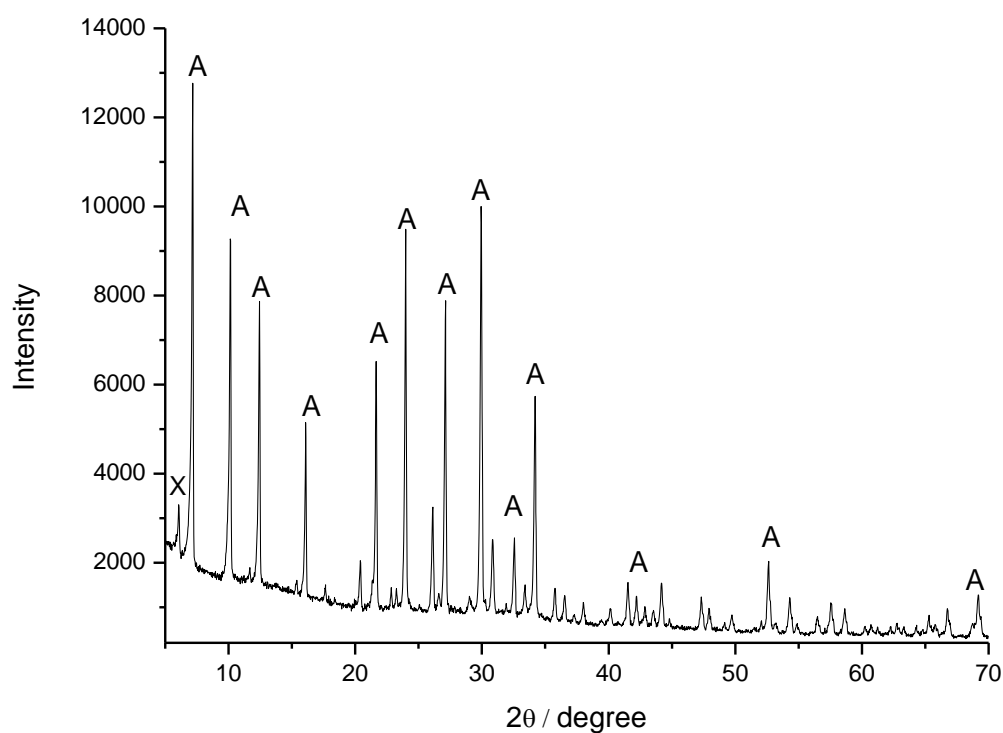


Figure S1. Diffractograms of the produced zeolite 4A (A) with minor contamination of zeolite X (X).

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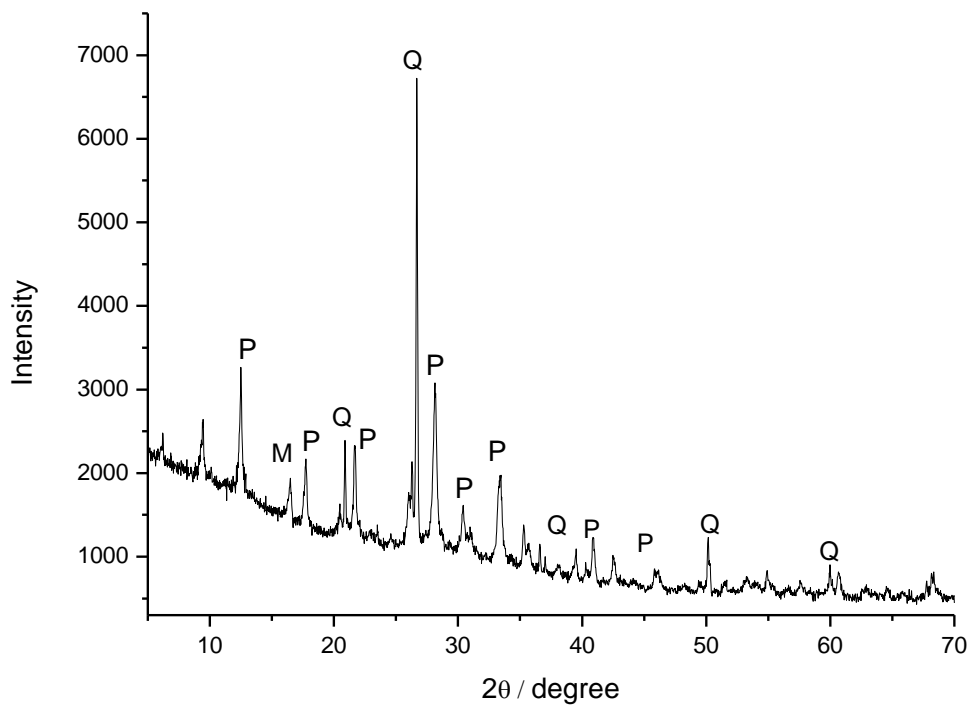


Figure S2. Diffractograms of the produced zeolite Na-P1 (P), with contamination of quartz (Q) and mullite (M).

Table S1. Concentrations of elements obtained by ICP-MS and FAAS for the certified reference materials of the coal fly ash (CRM 2690) from the NIST

CRM 2690	
Element	Recovery ^a / %
Al	84
As	92
Ba	89
Be	88
Ca	84
Co	86
Cr	92
Cs	86
Fe	85
K	89
Mg	80
Mn	85
Na	99
Ni	107
Pb	108
Se	81
Si	81
Sr	95
Zn	83

^aCalculated using the certified value.

Table S2. Concentrations of elements obtained by ICP-MS and FAAS for the certified reference materials of the zeolites: Zeolite Y (RM 8850) and Zeolite A (RM 8851) from the NIST

Element	Recovery ^a / %	
	RM 8850	RM 8851
Al	85	88
Cr	110	110
Fe	104	83
Na	93	89
Rb	99	ni ^b
Si	95	98
Zn	80	80

^aCalculated using the certified value; ^bnot informed.