

Supporting Information

Crystallization of Ti-rich *BEA zeolites by the combined strategy of using Ti-Si mixed oxide composites and intentional aluminum addition/post-synthesis dealumination

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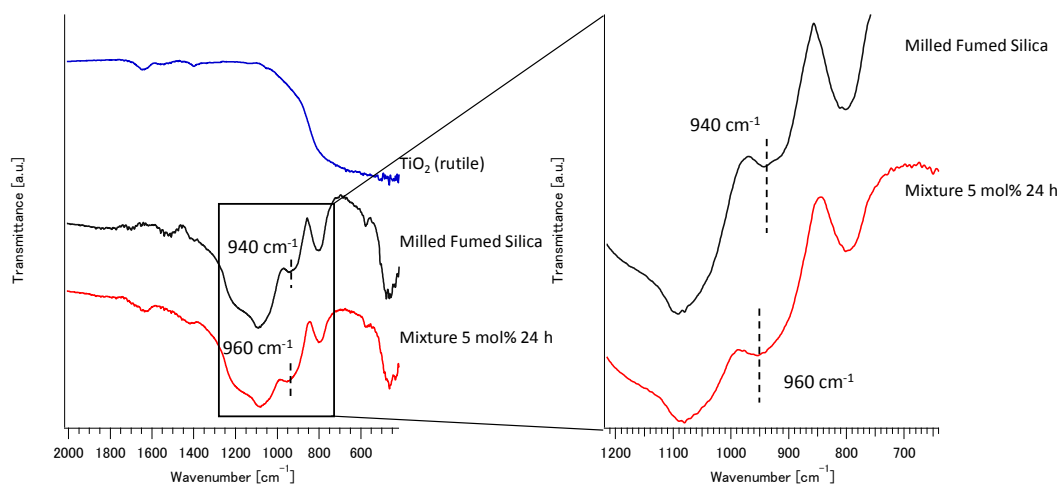


Figure S1 FT-IR spectra of TiO_2 (rutile), milled fumed silica, Mixture 5 mol% 24 h.

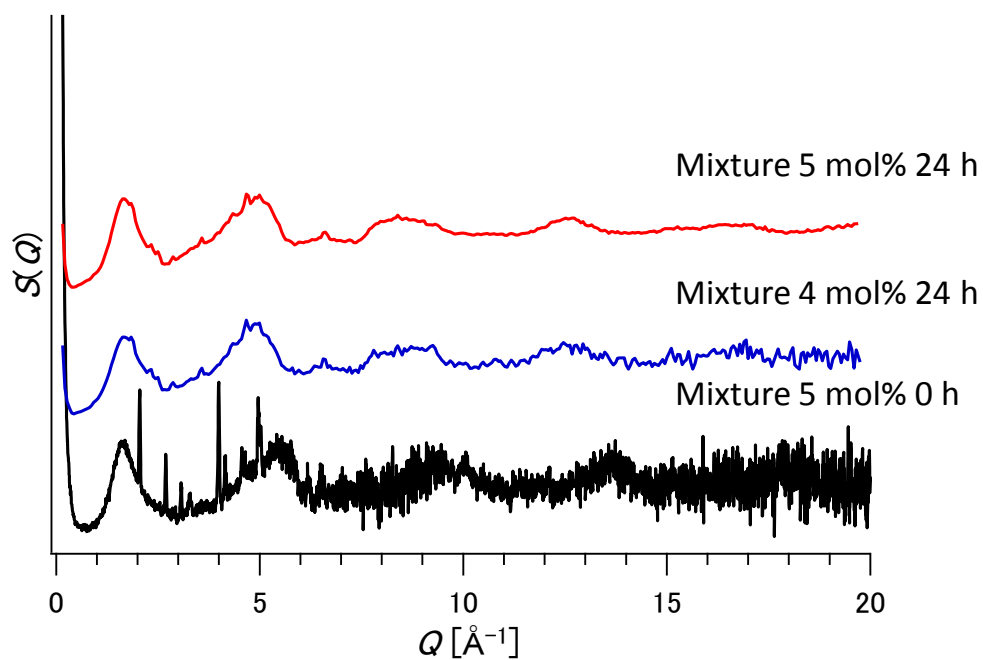


Figure S2 Total structure factor, $S(Q)$, of the mixtures with different mechanochemical treating periods used for calculation of $G(r)$.

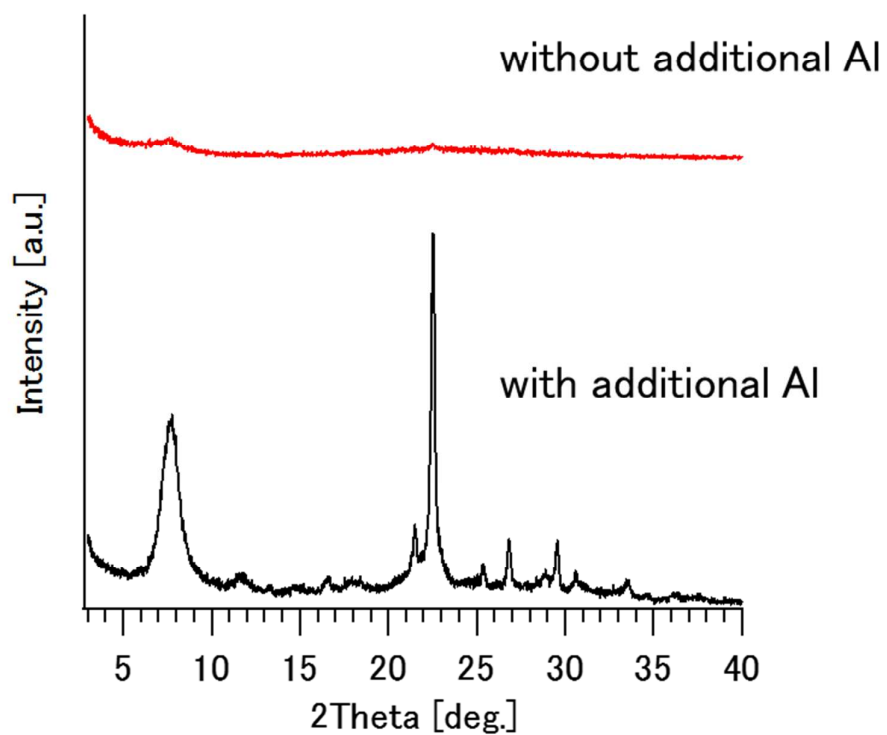


Figure S3 XRD pattern of the solid product without the additional Al source in comparison to (Ti, Al)-beta 4 mol% 6 d

Table S1 BET specific surface areas and micropore volumes calculated from the N₂ physisorption isotherms

	BET specific surface area [m ² /g]	Micropore volume [cc/g]
(Ti, Al)-beta 2.5 mol% 3d	690	0.24
(Ti, Al)-beta 3 mol% 3d	626	0.22
(Ti, Al)-beta 4 mol% 3d	690	0.24
(Ti, Al)-beta 5 mol% 6d	750	0.25
(Ti, Al)-beta 5 mol% 6d_AT	720	0.25

Micropore volumes were calculated using the *t*-plot method.