



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	2014_IRJPAC_10212
Title of the Manuscript:	Cation-Type Dependences of ¹ H and ²⁹ Si MAS NMR Chemical Shifts and Desorption Temperatures of Water Molecules in Faujasite-Type Zeolites

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
This manuscript deals with the study of Na ions in FAU with Si/Al ratios of 1.0, 1.2, 1.7, 2.4, and 3.5 exchanged by each Li, K, Rb, and Cs ion. High-resolution solid-state ¹H NMR spectra with a magic-angle (MAS) method showed a signal which can be assigned to H atoms of water molecules adsorbed on each FAU. Based on ¹H MAS NMR and TG-DTA results, the authors concluded that water molecules form weak hydrogen bonds in Na- and K-type FAU with high Si/Al ratios. The authors described in a scientific methodological way the approach employed to obtain the results presented here that are relevant for the knowledge of this kind of research. The Authors discussed their results in an appropriated way and these led them to conclusions until now do not known. The references used allows to the readers to access the similar research developed by other groups. The results presented were compared with others in the scientific literature and are well discussed in this article. In my opinion this article could be accepted for publication in the International Research Journal of Pure and Applied Chemistry as it is in this reviewed version.	

Note: Anonymous Reviewer