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Synthesis of Germanosilicate Zeolite HPM-12 Using a Short Imidazolium-based Dication: Structure-Direction by Charge-to-Charge Distance Matching

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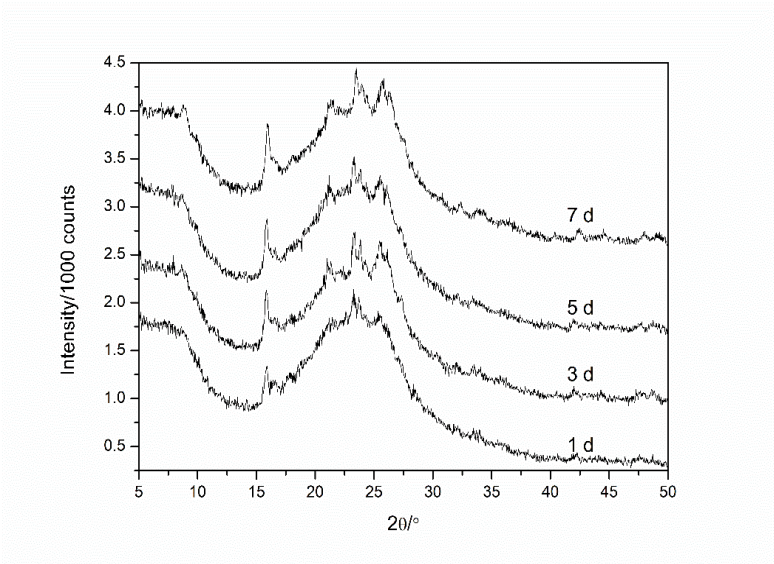

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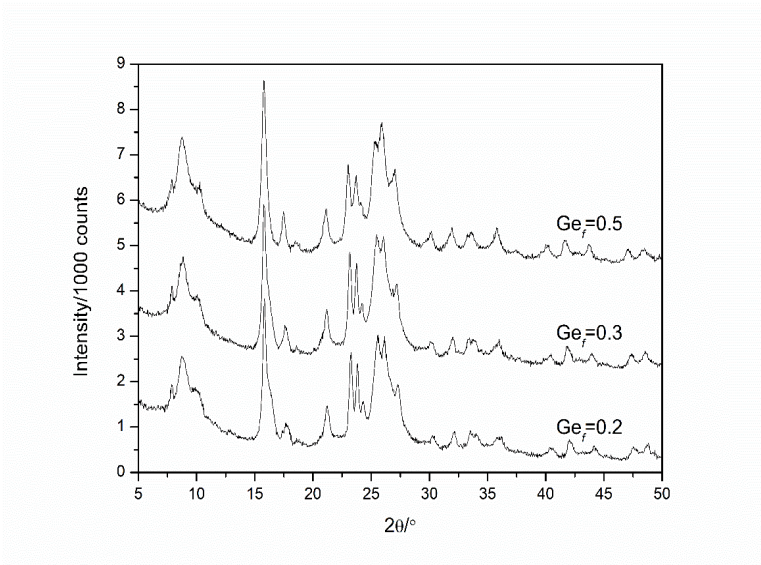

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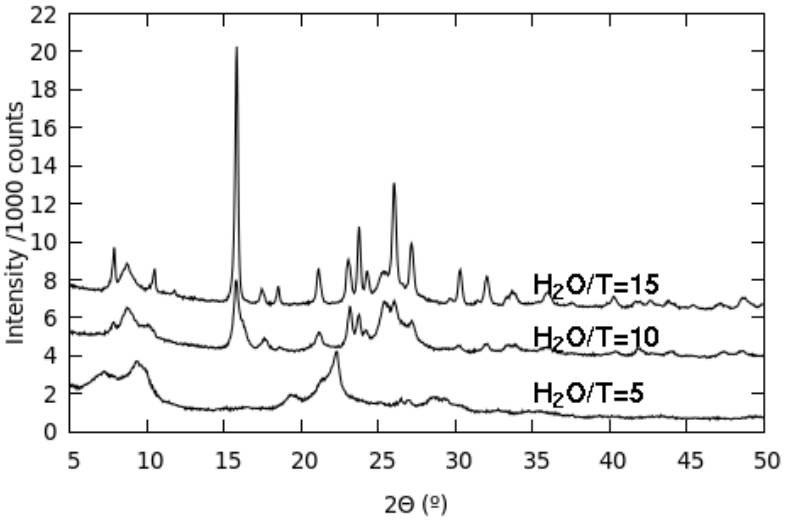

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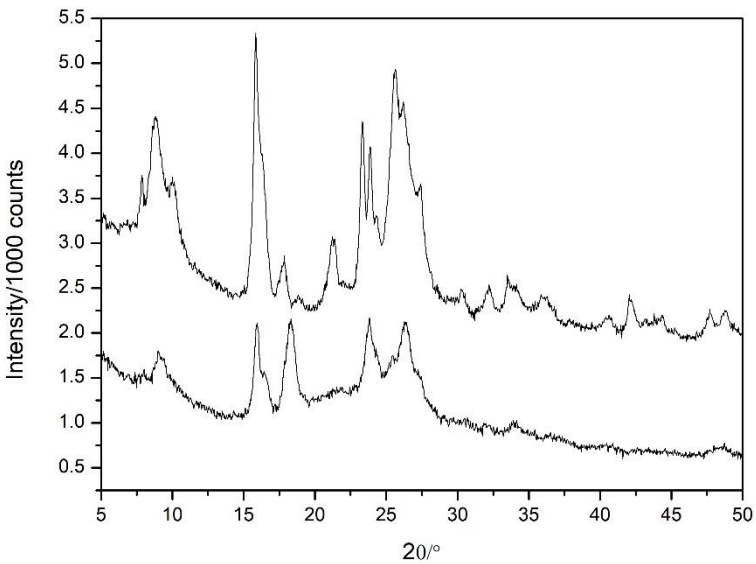

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Experiment	3BDMI[a]	HF[a]	SiO_2[a]	*a*	*b,c*	*f*	*d*	*e*	*g*
dissolved zeolite	1	1	1	145	123,121	45	35	9	29
Blank 1	1	1	1	-	-	-	-	-	-
Blank 2	1	1/4	1	145	123,121	45	35	9	30
Blank3	1	0	0	145	123,121	45	35	9	29
Blank 4	1	1 (HCl)[b]	0	145	123,121	46	35	9	30
Blank 5	20	0	0	145	123,121	46	36	11	30
Pristine SDA	-[c]	0	0	145	123,121	45	35	9	29
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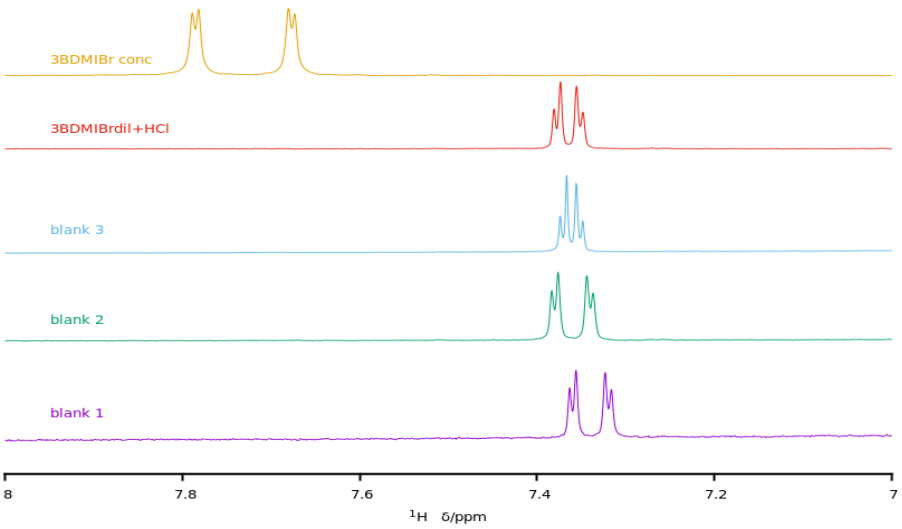
[a]Relative to the concentration in the dissolved zeolite NMR experiment, [b]HCl to achieve the same pH as in the zeolite NMR experiment, [c]Standard NMR experiments to check the purity of the SDA (concentration not determined and variable in different experiments)



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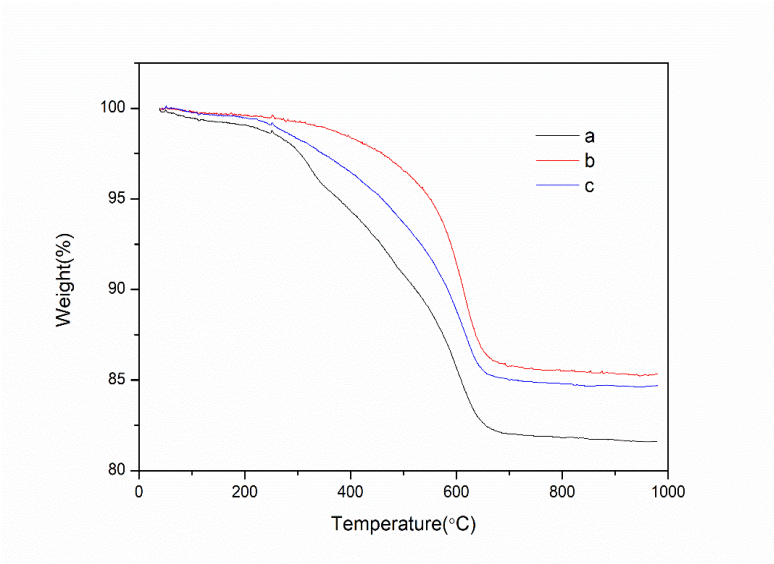

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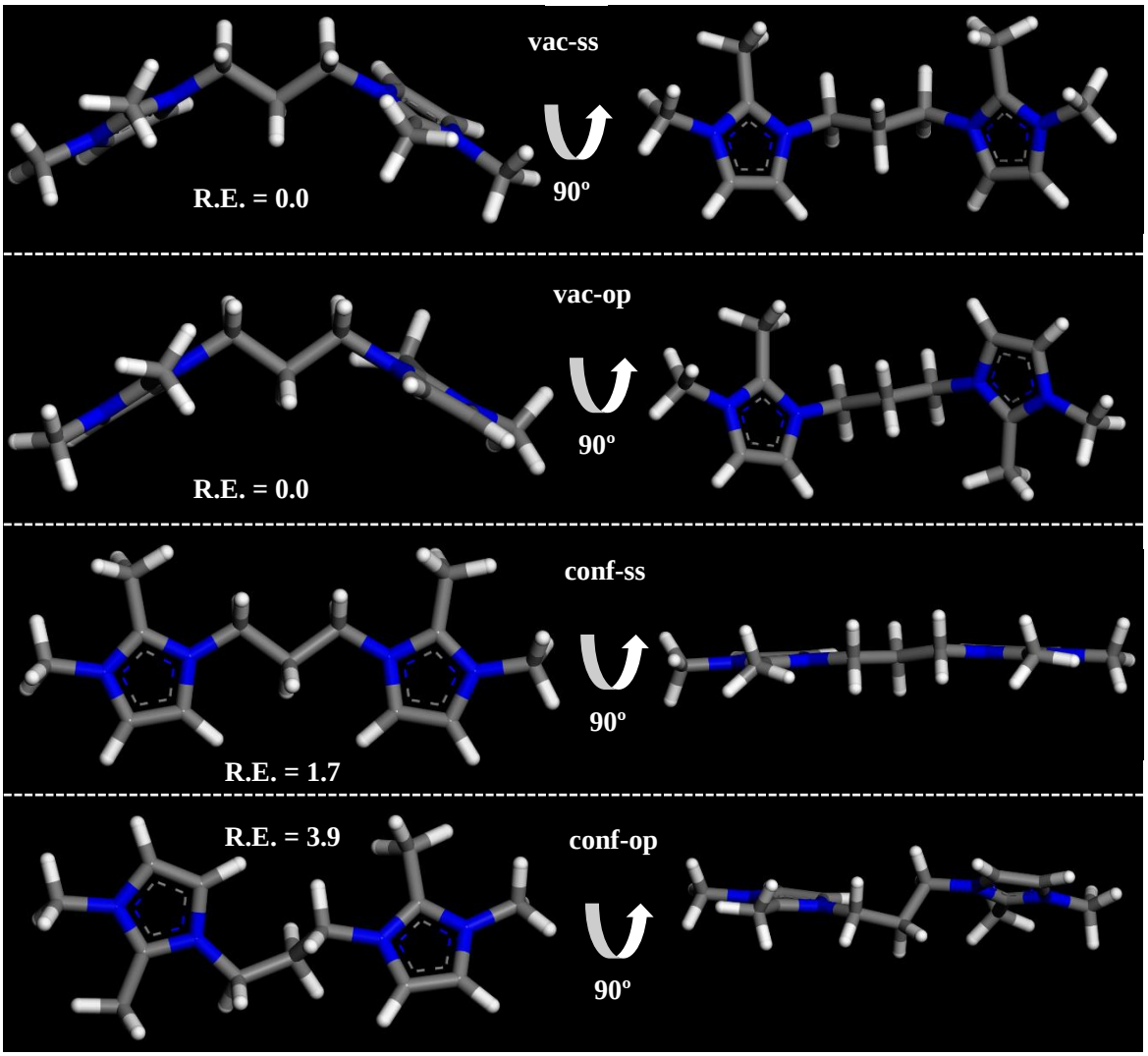

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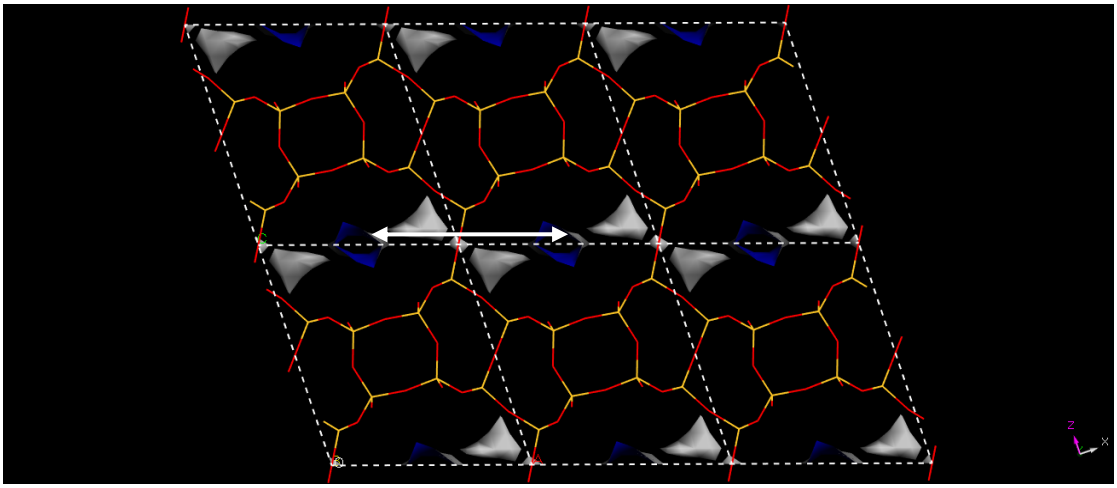

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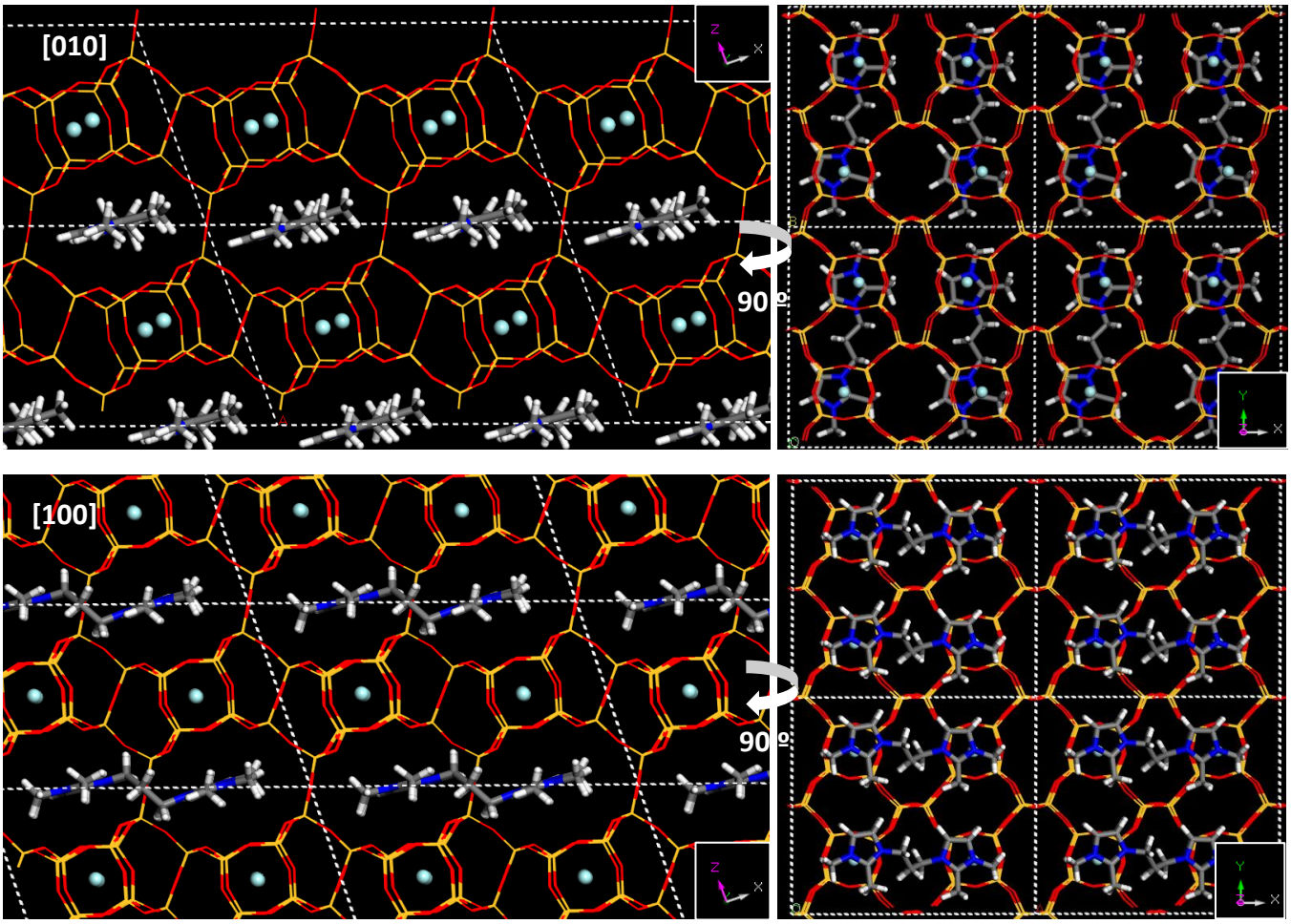

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