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RESEARCH ARTICLE

# Organosilane surfactant-assisted synthesis of mesoporous SSZ-39 zeolite with enhanced catalytic performance in the methanol-to-olefins reaction

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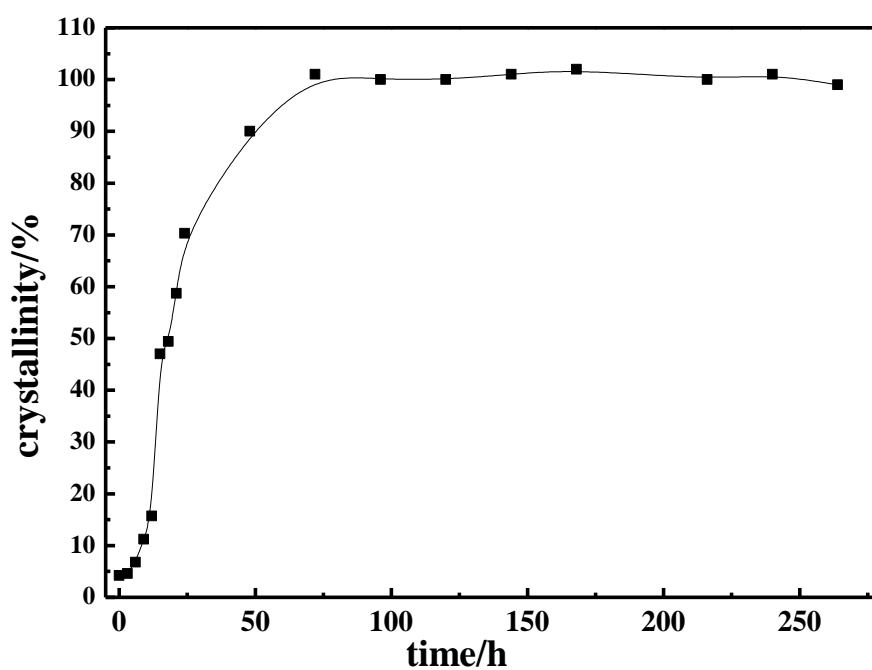
## Electronic Supplementary Material

**Table S1 Elemental analysis of the SSZ-39 samples**

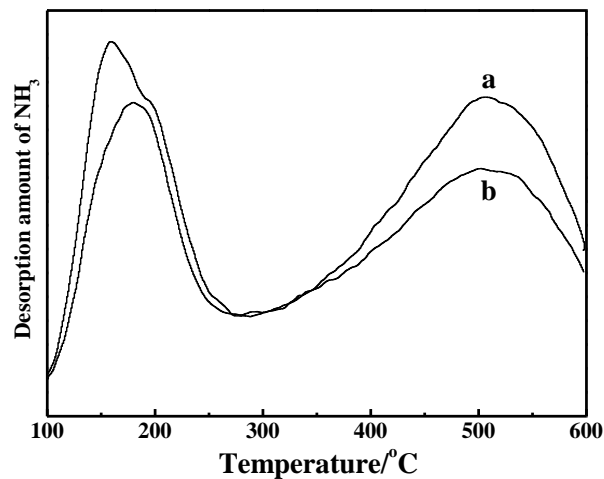
Sample	C/%	N/%	C/N
SSZ-39-c	11.8	1.2	9.8
SSZ-39-m1	14.3	1.3	11.0
SSZ-39-m2	16.8	1.5	11.2

**Table S2 Catalytic data in MTO for a reaction time of 60 min at 350 °C**

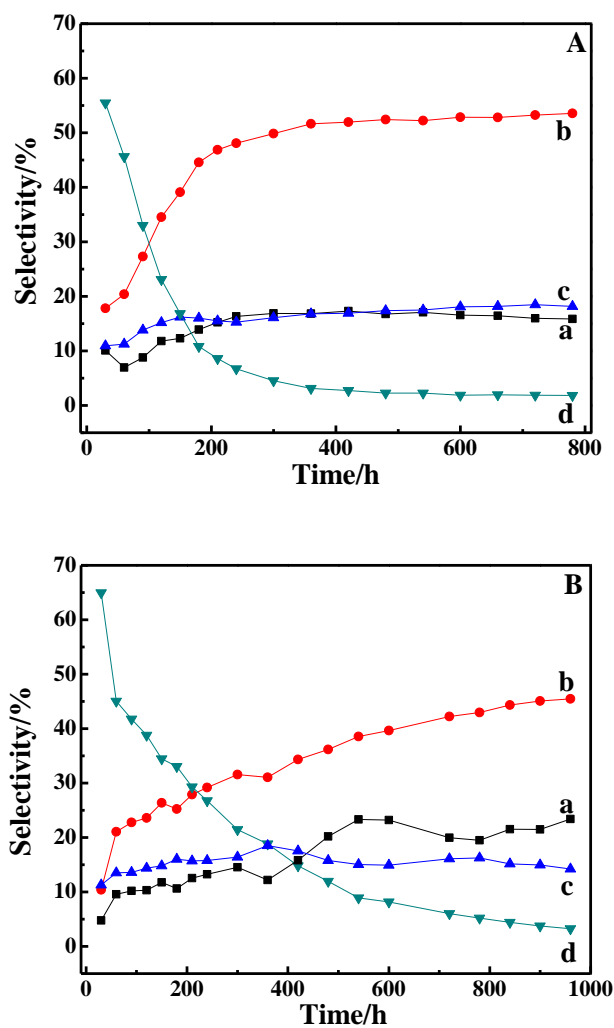
Sample	Conversion/ %	Selectivities/%			
		C <sub>2</sub> H <sub>4</sub>	C <sub>3</sub> H <sub>6</sub>	C <sub>4</sub> H <sub>8</sub>	C <sub>1</sub> -C <sub>4</sub> alkanes
H-SSZ-39-c	100	6.94	20.4	11.25	45.64
H-SSZ-39-m2	100	9.57	21.05	13.52	45.03



**Fig. S1.** Dependence of the SSZ-39-m2 crystallinity on crystallization time.



**Fig. S2.** NH<sub>3</sub>-TPD curves of the (a) H-SSZ-39-c and (b) H-SSZ-39-m2 samples.



**Fig. S3.** Product selectivities in MTO reaction for (a) ethylene, (b) propylene, (c) butane, and (d) C<sub>1</sub>-C<sub>4</sub> alkane over (A) H-SSZ-39-c and (B) H-SSZ-39-m2 catalysts.