

Supporting Information

Thermal and catalytic pyrolysis of urban plastic waste: modified mordenite and ZSM-5 zeolites

Taihana Parente Paula¹, Maria de Fatima Vieira Marques^{1*}, Mônica Regina da Costa Marques², Michelle Souza Oliveira³ and Sergio Neves Monteiro³

¹ Instituto de Macromoléculas Professor Eloisa Mano / Universidade Federal do Rio de Janeiro, Horácio Macedo Av., 2.030, Bloco J, Cidade Universitária, CEP 21941-598 – Rio de Janeiro – RJ – Brazil; taihana.parente@gmail.com; fmarques@ima.ufrj.br.

² Institute of Chemistry / State University of Rio de Janeiro, St. São Francisco Xavier, 524, Pavilhão Haroldo Lisboa da Cunha, Maracanã, CEP 20550-0900 - Rio de Janeiro - RJ – Brazil; monicamarquesuerj@gmail.com

³ Military Institute of Engineering – IME, Department of Materials Science, Praça General Tibúrcio, 80, CEP 22290-270, Urca, Rio de Janeiro, Brazil; oliveirasmichelle@ime.eb.br, snevesmonteiro@gmail.com

* Correspondence: fmarques@ima.ufrj.br

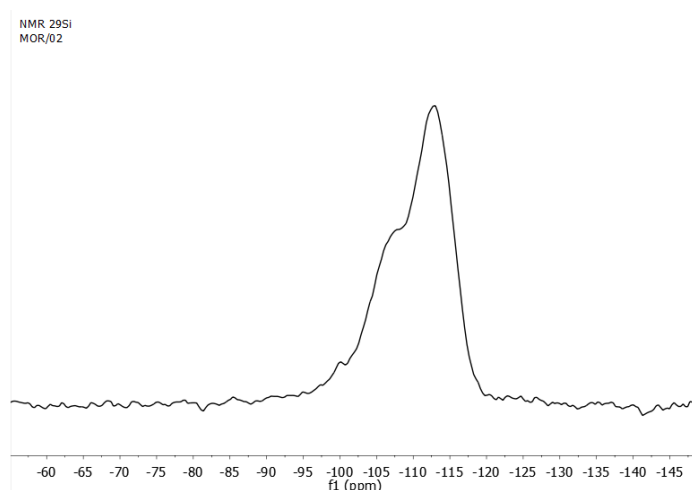


Figure S1 ²⁹Si NMR spectrum of **MOR/02**.

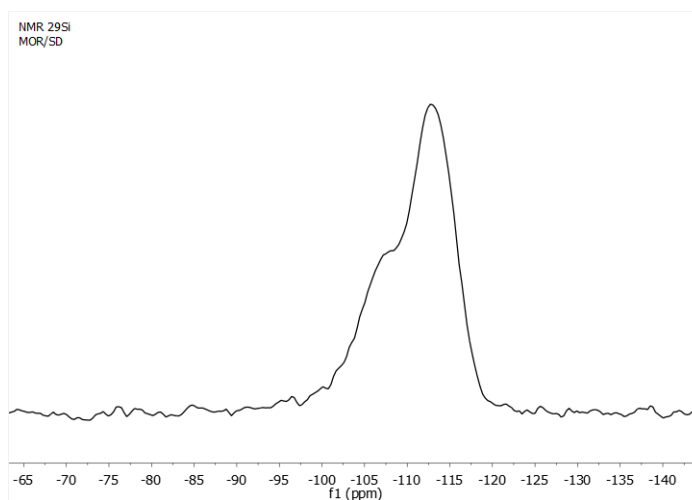


Figure S2 ²⁹Si NMR spectrum of **MOR/SD**.

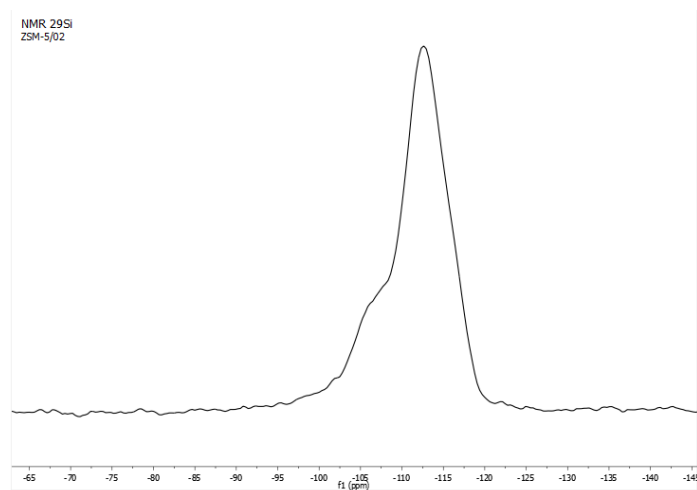


Figure S3 ^{29}Si NMR spectrum of **ZSM-5/02**.

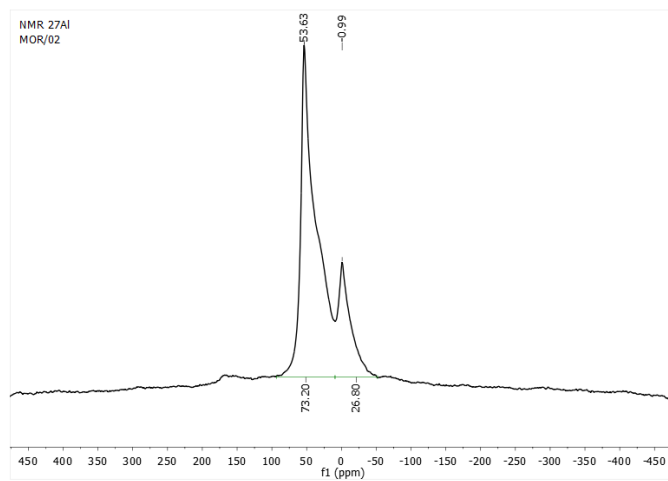


Figure S4 ^{27}Al NMR spectrum of **MOR/02**.

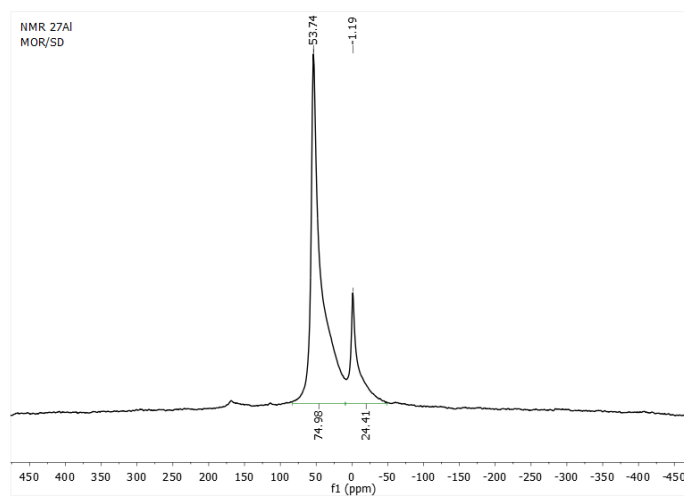


Figure S5 ^{27}Al NMR spectrum of **MOR/SD**.

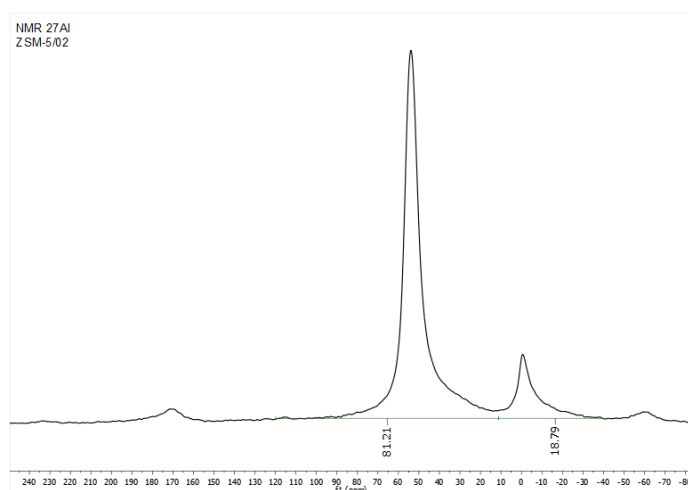


Figure S6 ^{27}Al NMR spectrum of **ZSM-5/02**.

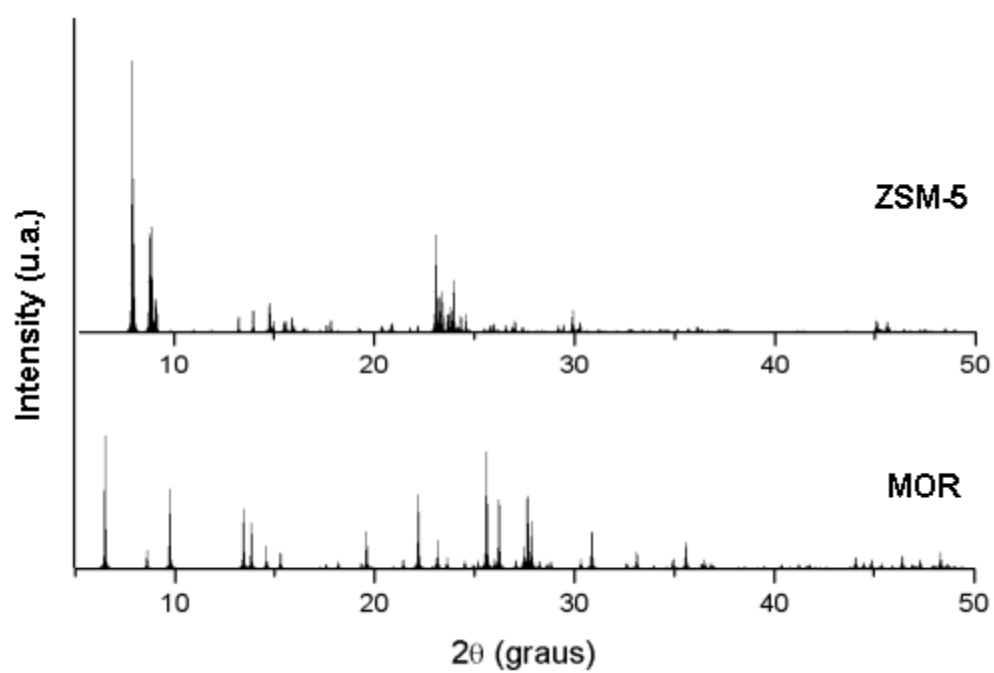


Figure S7 Diffractogram of zeolites ZSM-5 and MOR. Available in Database of zeolite Structure (CIF files)