

ABSTRACT

The present invention relates to a tin-titanium-silicon molecular sieve, a preparation method and an application thereof. The electron binding
5 energy of framework tin active centers in the tin-titanium-silicon molecular sieve is 488.5 eV or less. In the tin-titanium-silicon molecular sieve, the molar ratio of titanium to silicon is preferably 0.005-0.03, and the molar ratio of tin to silicon is preferably 0.005-0.025. The tin-titanium-silicon molecular sieve of the invention has more catalytic active centers, a lower
10 electron binding energy of framework tin active centers, and an excellent catalytic performance.

Fig. 1