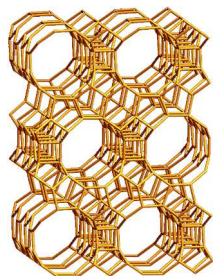


Studies of Aluminum re-insertion into borosilicate zeolites with intersecting channels of 10 and 12 ring channel systems

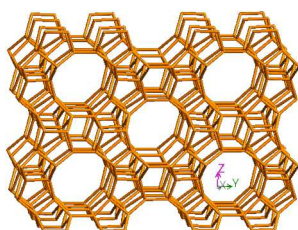
Stacey I. Zones, Annabelle Benin, Son-Jong Hwang, Dan Xie, Saleh Elomari, Ming-Feng Hsieh

Appendix 1. Zeolite frameworks for some in this study.

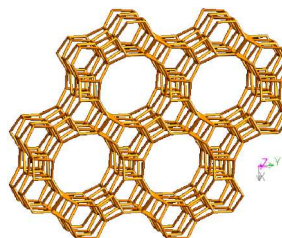
Beta (BEA)



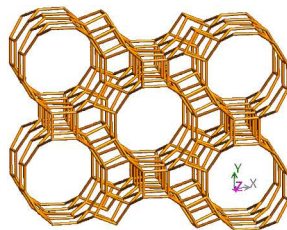
MEL



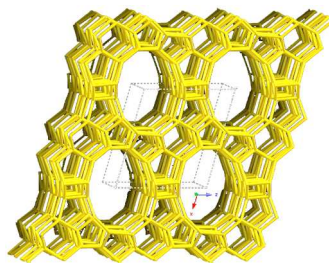
SSZ-24 (AFI)



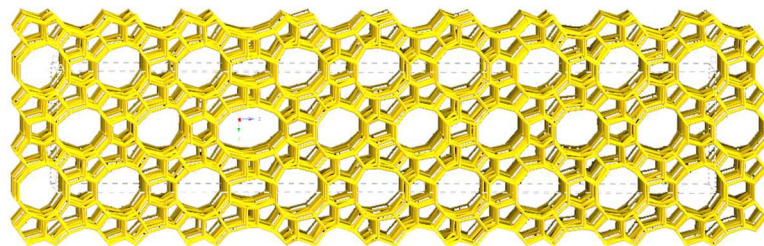
SSZ-33 (CON)



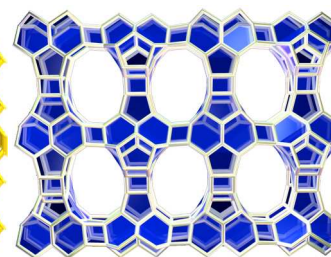
SSZ-56 (SF5)



SSZ-57 (SFV)



SSZ-82 (SEW)



Supplementary Table 1. Local environment for T atoms in SSZ-82, SSZ-33, and SSZ-56. This material is available free of charge via the Internet at <http://pubs.acs.org>.

A. SSZ-82 (SEW)

T-site	multiplicity	form 5R?	form 4R?	in 12R?	in 10R?	at 12/10 intersection?
T1	2	✓	✗	✗	✓	✗
T2	4	✓	✓	✗	✗	✗
T3	4	✓	✓	***	✓	***
T4	8	✓	✓	✓	✗	✗

T5	8	✓	✓	✓	×	×
T6	4	✓	×	×	✓	×
T7	8	✓	✓	✓	×	×
T8	4	✓	×	***	×	***
T9	8	✓	✓	✓	✓	✓
T10	8	✓	✓	✓	✓	✓
T11	8	✓	✓	✓	✓	✓

*** sit at the inner surface of 12R channel, but form 14R window rather than 12R.

B. SSZ-33 (CON-type)

T-site	multiplicity	form 5R?	form 4R?	in 12R?	in 2 nd 12R?	in 10R?	at 12/12 or 12/10 intersection?
T1	8	✓	✓	✓	✓	✓	12/12; 12/10
T2	8	✓	×	✓	✓	✓	12/12; 12/10
T3	8	✓	✓	✓	✓	✓	12/12; 12/10
T4	8	✓	✓	✓	✓	✓	12/12; 12/10
T5	8	✓	✓	✓	✓	✓	12/12; 12/10
T6	8	✓	✓	✓	×	×	×; ×
T7	8	✓	✓	✓	✓	✓	12/12; 12/10

C. SSZ-56 (SFS)

T-site	multiplicity	form 5R?	form 4R?	in 12R?	in 10R?	at intersection? 12/10
T1	4	✓	✓	✓	✓	✓
T2	4	✓	×	✓	×	×
T3	4	✓	×	✓	×	×
T4	4	✓	×	×	✓	×
T5	4	✓	✓	✓	✓	✓
T6	4	✓	×	✓	✓	✓
T7	4	✓	✓	✓	✓	✓
T8	4	✓	✓	✓	✓	✓
T9	4	✓	✓	✓	✓	✓
T10	4	✓	×	✓	✓	✓
T11	4	✓	×	✓	✓	✓
T12	4	✓	×	✓	✓	✓
T13	4	✓	✓	✓	✓	✓
T14	4	✓	×	×	✓	×