

## ABSTRACT

### AROMATIC TRANSALKYLATION USING UZM-44 ALUMINOSILICATE ZEOLITE

A new family of aluminosilicate zeolites designated UZM-44 has been synthesized.

5 These zeolites are represented by the empirical formula.



where M represents a metal or metals from zinc, Group 1, Group 2, Group 3 and the lanthanide series of the periodic table, “m” is the mole ratio of M to (Al + E), T is the organic structure directing agent or agents, and E is a framework element such as gallium. UZM-44 may  
10 be used to catalyze a process for the transalkylation of a feedstream comprising one or more of C<sub>7</sub>, C<sub>9</sub>, C<sub>10</sub> and C<sub>11</sub>+ aromatics to obtain a transalkylation product stream having an increased concentration of C<sub>8</sub> aromatics relative to that of the feedstream.

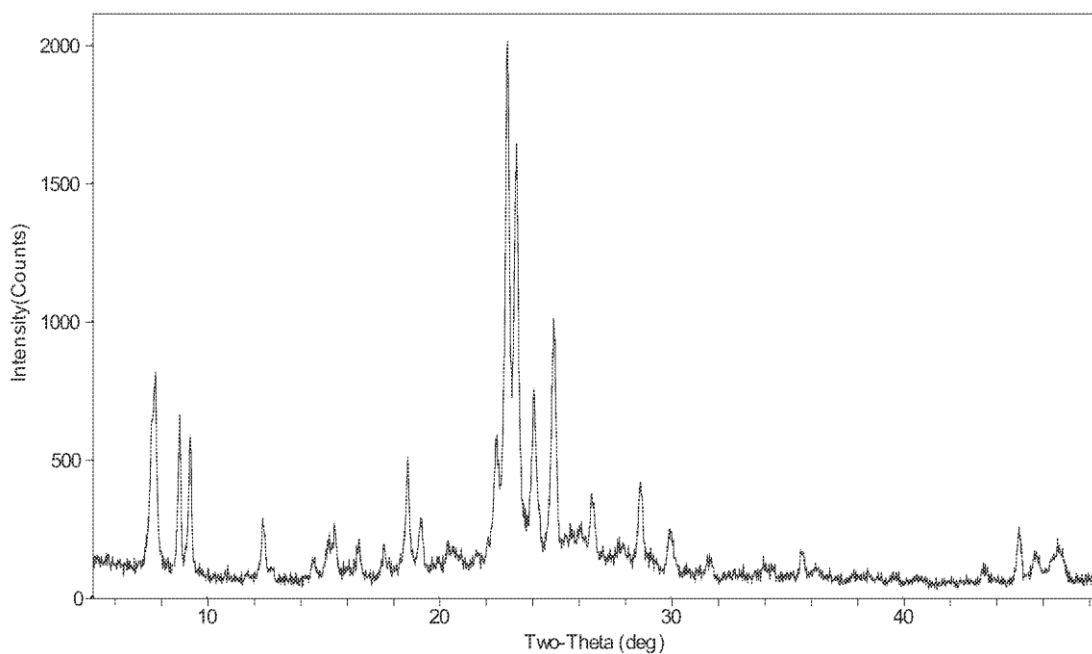


FIG. 1

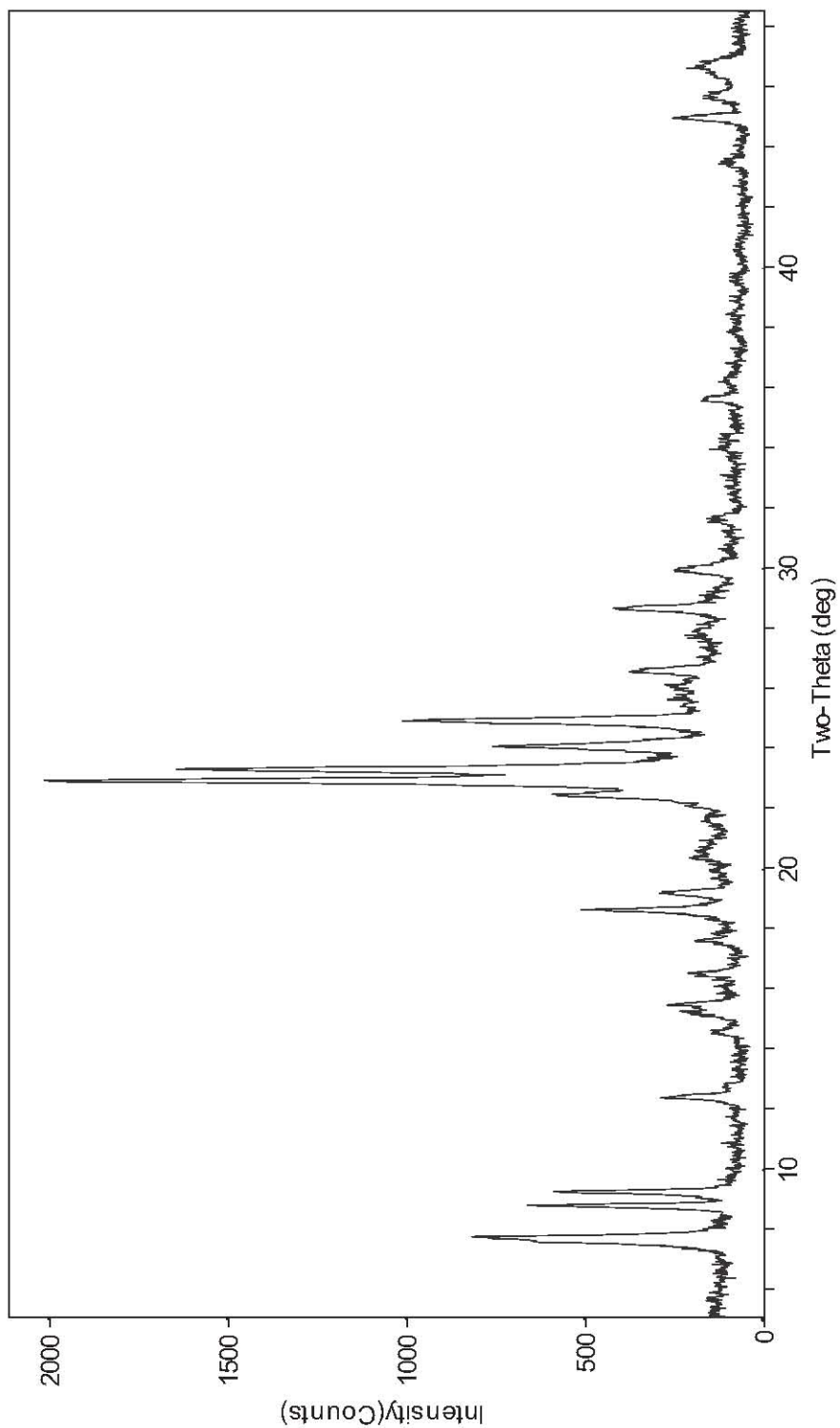


FIG. 1

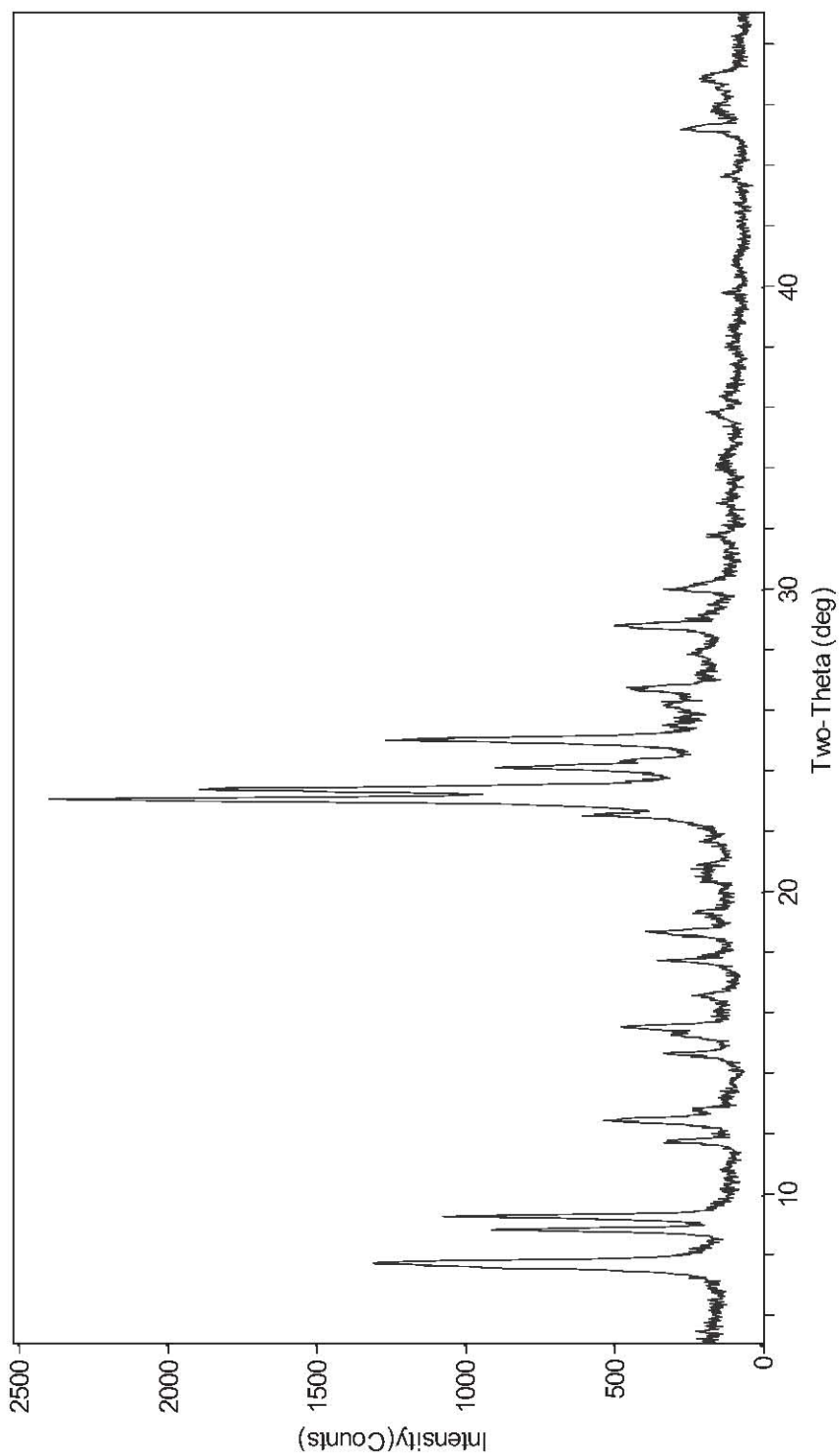


FIG. 2

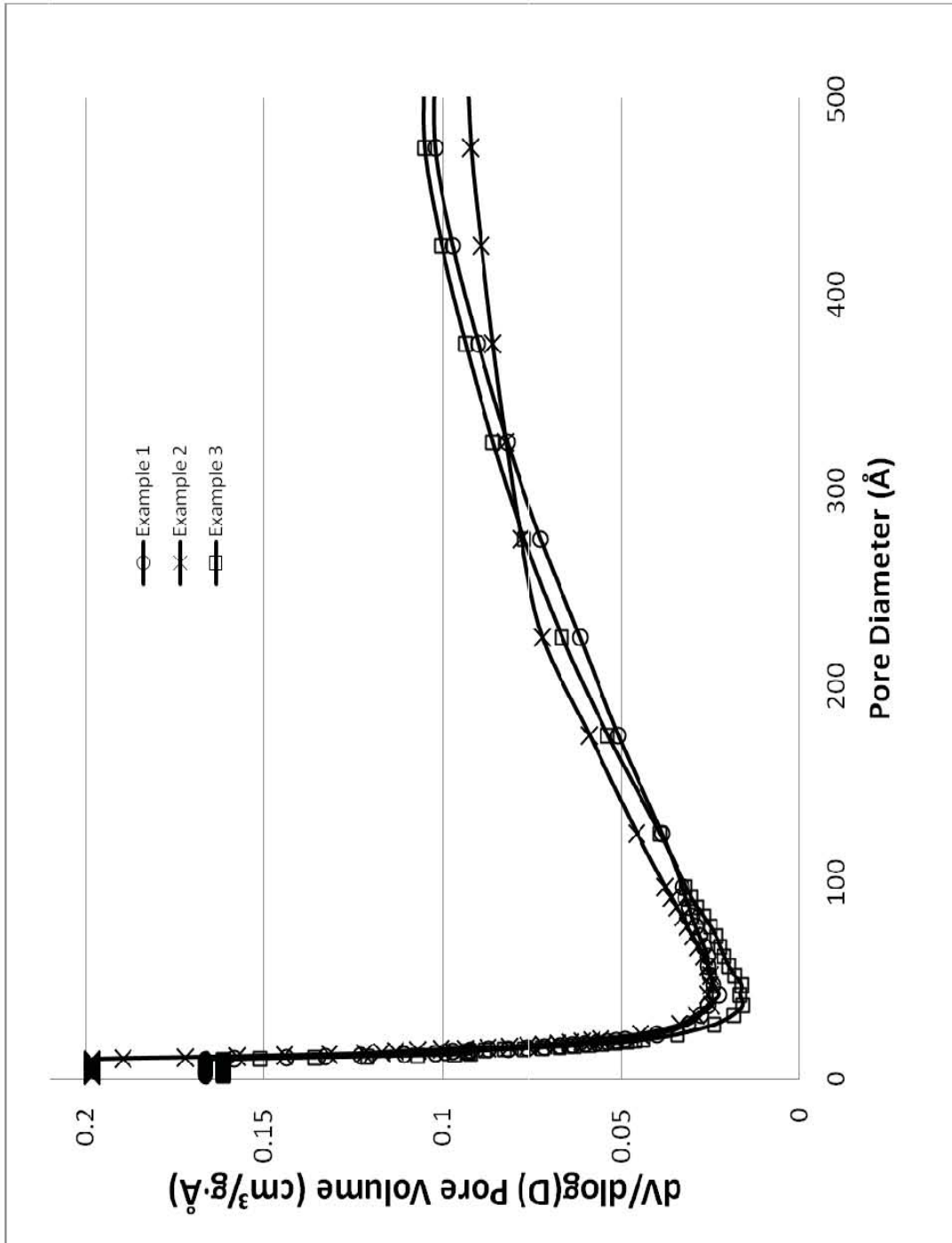


FIG. 3

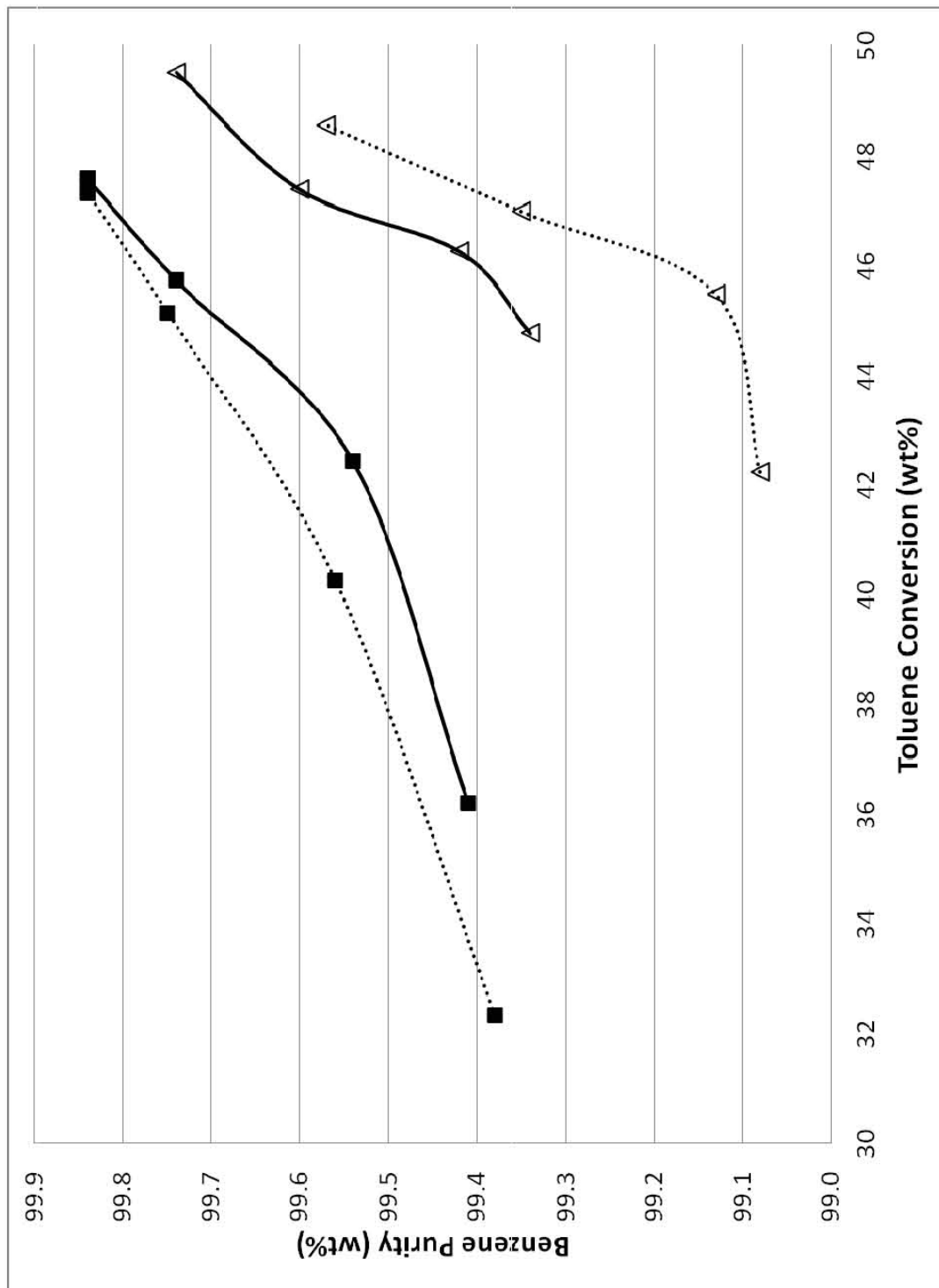


FIG. 4