

Characterization and Analysis of Ring Topology of Zeolite Frameworks

Jerry Crum, Jerry T. Crum^a, Justin R. Crum^b, Cameron Taylor^a, William F. Schneider^{a,c}

^a*Department of Chemical and Biomolecular Engineering, University of Notre Dame, 250 Nieuwland Science Hall, Notre Dame, IN 46556, USA*

^b*Department of Applied Mathematics, University of Arizona, 617 N Santa Rita Ave, Tucson, AZ 85721, USA*

^c*Department of Chemistry and Biochemistry, University of Notre Dame, 251 Nieuwland Science Hall, Notre Dame, IN 46556, USA*

1. Highlights

1. Classes of zeolite rings identified
2. Algorithm and software to identify and enumerate rings developed
3. Software used to analyze ring patterns across all zeolites