

Synthesis of B-MCM-22, B-MCM-36, and B-ITQ-2

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Boron-containing MWW-type zeolite, B-MCM-22 was hydrothermally prepared and its related structures B-MCM-36 and B-ITQ-2 samples were prepared via swelling/pillaring or exfoliation. Their structural evolution was closely followed by XRD and N_2 -adsorption measurements. De-boration of these samples was also studied to conduct transition metal incorporation afterwards for catalytic applications.