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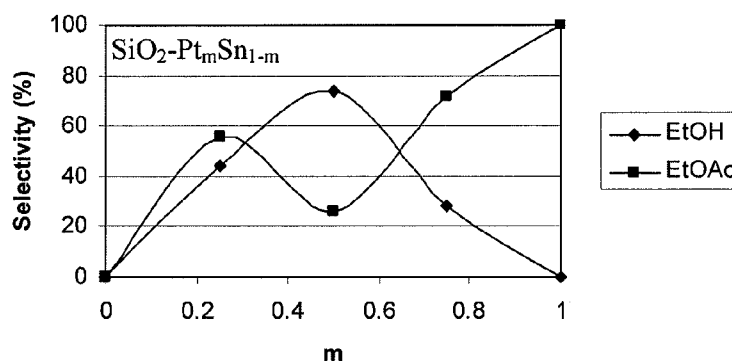
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(54) Title: PREPARATION AND USE OF A CATALYST FOR PRODUCING ETHANOL COMPRISING A CRYSTALLINE  
 SUPPORT MODIFIER

FIG. 1A - Selectivity Pt/Sn Catalyst



(57) Abstract: A catalyst comprising a first metal, a siliceous support, and at least one metasilicate support modifier, wherein at least 1 wt.% of the at least one metasilicate support modifier is crystalline in phase, as determined by x-ray diffraction. The invention also relates to processes for forming such catalysts, to supports used therein, and to processes for hydrogenating acetic acid in the presence of such catalysts.