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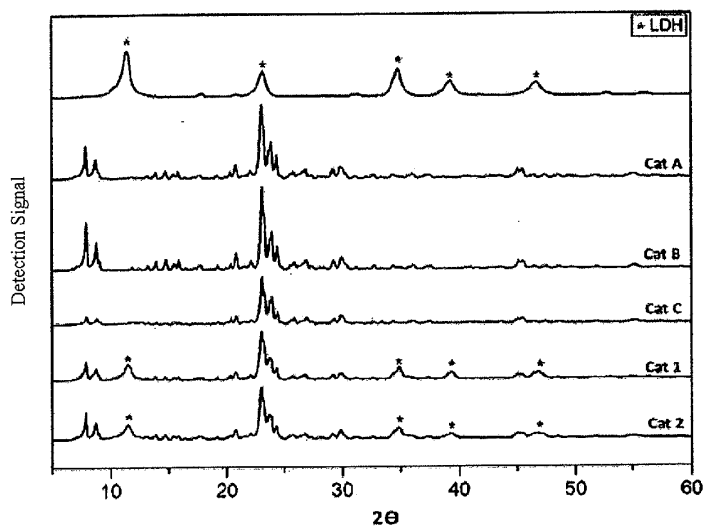


Figure 1

(57) Abstract: The present invention relates to a catalyst for producing light olefins from C4-C7 hydrocarbons from catalytic cracking reaction and the production process of light olefins from said catalyst, wherein said catalyst has core-shell structure comprising a zeolite core with mole ratio of silicon to aluminium (Si/Al) between 2 to 250 and layered double hydroxide shell (LDH). The catalyst according to the invention provides high percent conversion of substrate to products and high selectivity to light olefins product.

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