The influence of the transition metal and the heteroatomic?bridge on the action of metallocene/methyl aluminoxane catalysts in ethylene polymerization and on the properties of the polymer

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This work reports a comparative study of the catalytic behaviour for a series of metallocenes derived from Ti, Zr, Hf and Nb, which after activation with methylaluminoxane can polymerize ethylene. Results show that the Zr metallocene with a ?(CH3)2Si?Bridge presents the highest activity, and the metallocenes based on Hf and Nb do not show any significant activity under the tested conditions.