

# Accepted Manuscript

Nickel(II) complexes of bidentate N-N' ligands containing mixed pyrazole, pyrimidine and pyridine aromatic rings as catalysts for ethylene polymerisation

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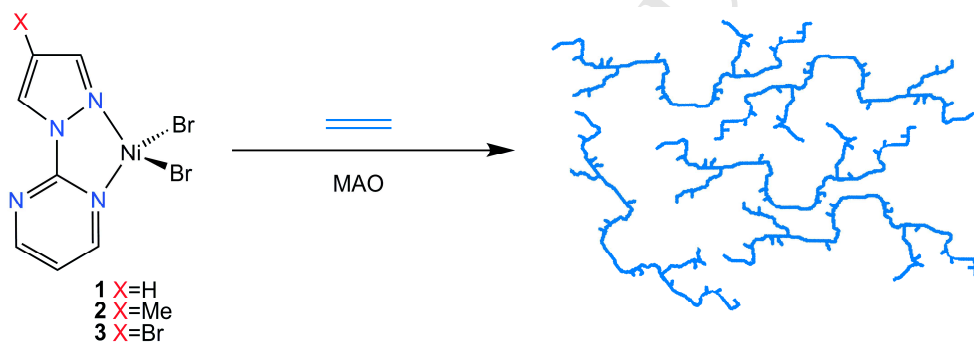
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### Graphical Abstract Synopsis

The new complexes  $[\text{NiBr}_2(\text{pzpm})]$  (**1**),  $[\text{NiBr}_2(4\text{-Mepzpm})]$  (**2**) and  $[\text{NiBr}_2(4\text{-Brpzpm})]$  (**3**), behave as catalysts for the polymerisation of ethylene, in the presence methylaluminoxane (MAO). Low molecular weight branched polyethylene products were obtained with  $M_n$  values ranging from *ca.* 550 and 1500  $\text{g mol}^{-1}$  and unusually low dispersities of 1.2 to 1.7.

### Graphical Abstract Pictogram



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