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Title: Fabrication and investigation of PEBAX/Fe-BTC, a high permeable and CO<sub>2</sub> selective mixed matrix membrane

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### Research Highlights:

- Polymer/MOF mixed matrix membranes comprising PEBAX and Fe-BTC has been investigated.
- Membranes showed acceptable properties for CO<sub>2</sub>/CH<sub>4</sub> separation.
- Selectivity and permeability increased with particles loading percent till 30wt. %
- At high pressures selectivity reduction has been observed owing to plasticization effect.

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