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Syntheses of aromatic polymers containing imidazolium moiety and the surface modification of a highly gas permeable membrane using the nanosheets

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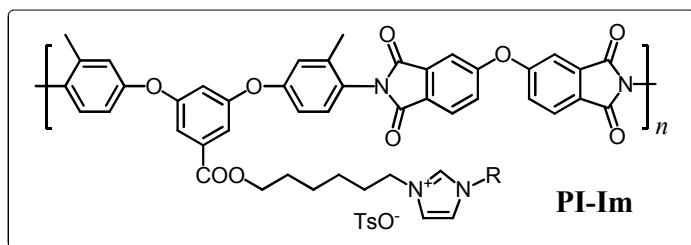
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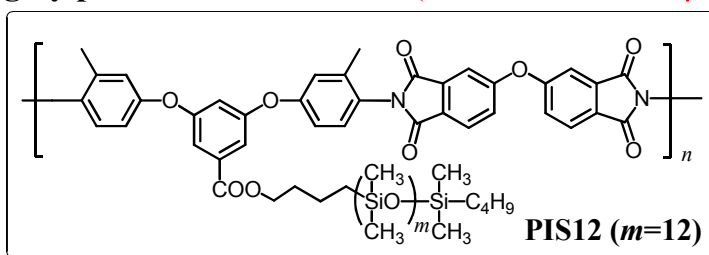
GRAPHICAL ABSTRACT



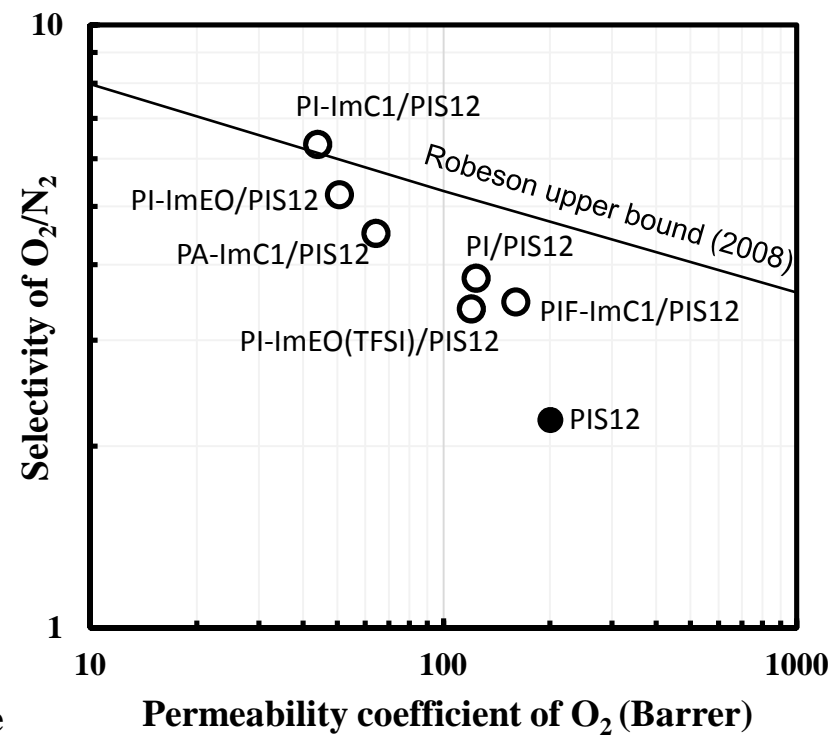
Nanosheet coating (thickness: *ca.* 60 nm)

PDMS graft copolyimide membrane

Highly permeable membrane (thickness: *ca.* 100 μm)



Nanosheet-coated highly gas permeable membrane



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