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Abstract

In recent years, efficient, cost effective oil-water separation technologies are highly desired due to frequent oil spill accidents. To design fibrous membranes for efficient oil-water separation, 'flexible' polyamide acid (PAA), being polyamide acid with ether linkages in the backbone, and 'heavily' fluorinated polybenzoxazine (F-PB) were synthesized. Cellulose acetate (CA) and PAA were co-axially electrospun; the PAA core was then imidized at high temperature to obtain core/shell structured CA/polyimide (PI) electrospun fibrous

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