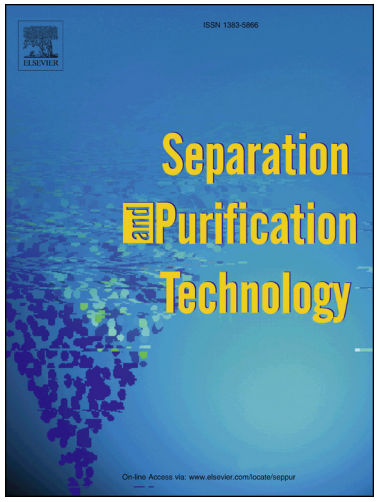

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Wenjing Ma[1], Zhongfu Guo[1], Juntao Zhao[1], Qian Yu[3], Fang Wang[1], Jingquan Han[4], Hui Pan[1], Jianfeng Yao[1], Qilu Zhang[5], Sangram Keshari Samal[2,6], Stefaan C. De Smedt[1,2]* and Chaobo Huang[1]*

[1]College of Chemical Engineering, Jiangsu Key Lab of Biomass-based Green Fuels and Chemicals, Nanjing Forestry University (NFU), Nanjing, 210037 P. R. China

[2]Lab General Biochemistry & Physical Pharmacy, Department of Pharmaceutics, Ghent University, 259000, Belgium

[3] College of Chemistry, Chemical Engineering and Materials Science, Soochow University, Suzhou, 215123, P. R. China

[4]College of Material Science and Engineering, Nanjing Forestry University (NFU), Nanjing, 210037 P. R. China

[5]School of Material Science and Engineering, Xi'an jiaotong University, Xi'an, 710049 P. R. China

[6]Material Research center, Indian institute of Science, Bangalore. 560012, India

Email: Chaobo.Huang@njfu.edu.cn.

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 imidizated at high temperature to obtain core/shell structured CA/polyimide (PI) electrospun fibrous