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Enhanced anti-ultraviolet, anti-fouling and anti-bacterial polyelectrolyte membrane of polystyrene grafted with trimethyl quaternary ammonium salt modified lignin

Yanli Ma, Junxiu Dai, Lili Wu, Guizhen Fang, Zhanhu Guo



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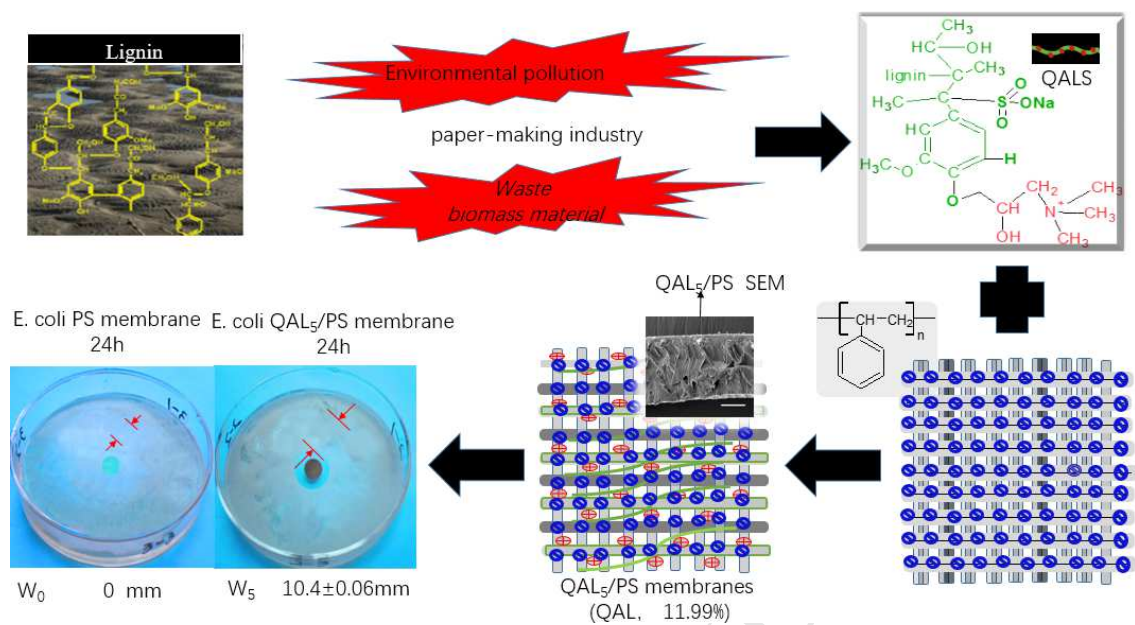
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