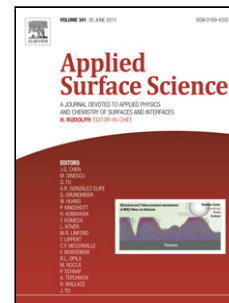


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# Enhanced antifouling and antibacterial properties of poly (ether sulfone) membrane modified through blending with sulfonated poly (aryl ether sulfone) and copper nanoparticles

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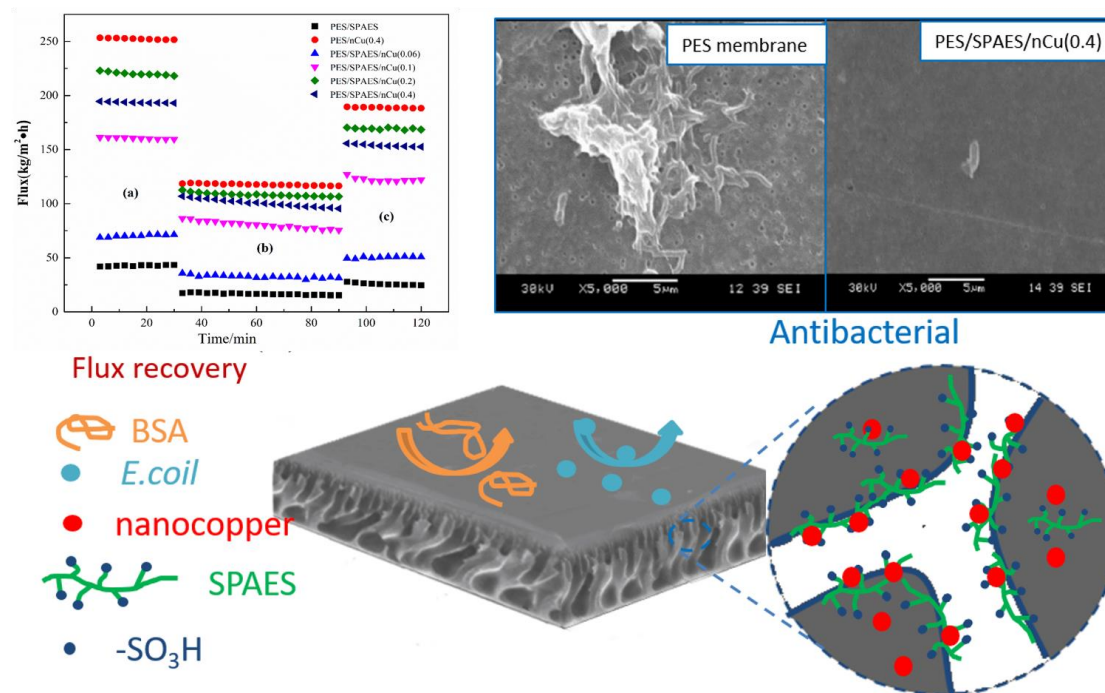
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## Graphical Abstract



## Highlights:

1. PES membrane was modified with SPAES and copper nanoparticles(nCu).
2. The hydrophilicity of membrane was improved with the introduction of SPAES and nCu.
3. PES/SPAES/nCu membrane showed good antifouling/antibacterial performance.

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