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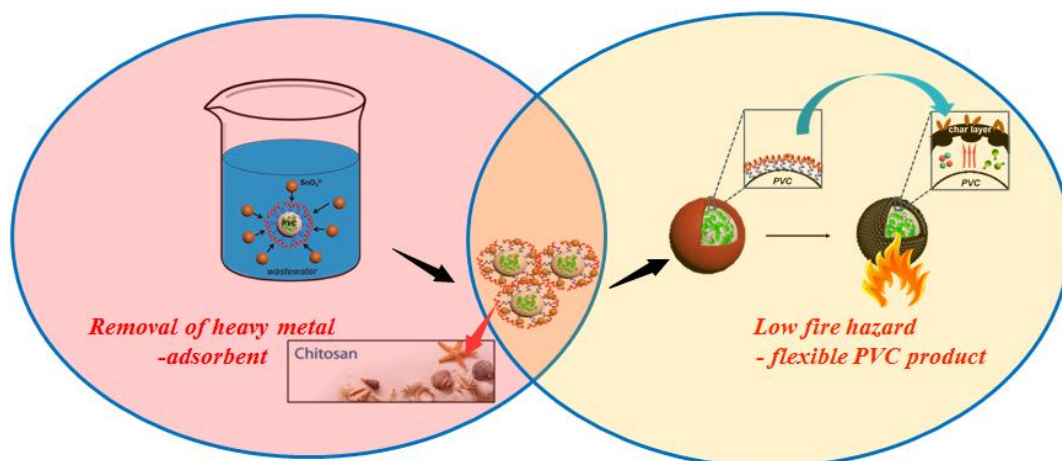
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Graphical abstract



Highlights

- Tin oxyanion in tin plating wastewater is adsorbed by chitosan-coated PVC resin.
- Tin-doped chitosan-coated PVC resin is processed into flexible PVC composite.
- The modification reduces fire hazards of flexible PVC composite with reduced HCl amount.
- The tensile property of flexible PVC composite was also enhanced.

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