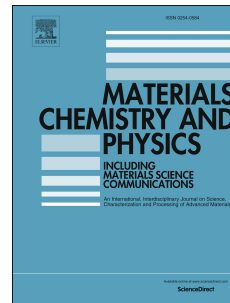


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Mesoporous metal oxide/pyrophosphate hybrid originated from reutilization of water treatment resin as a novel fire hazard suppressant

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- Mesoporous SnO₂/Ca₂P₂O₇ hybrid (TCP) was derived from waste chelating resin.
- TCP reduced corrosive HCl release from flexible PVC composite during combustion.
- Flexible PVC composite with TCP show good smoke suppression and flame retardancy.
- TCP has the great potential to replace harmful antimony trioxide as flame retardant.

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