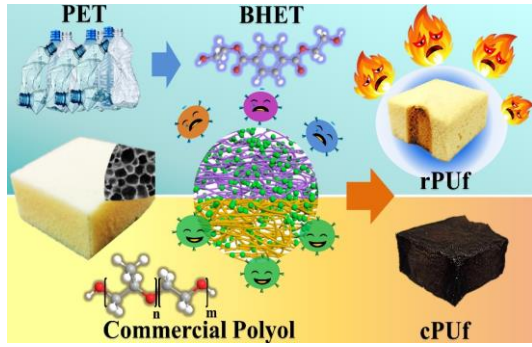


Polymer / Polymer composite / Polymer nanocomposite fire-resistant materials using environmentally friendly flame retardants

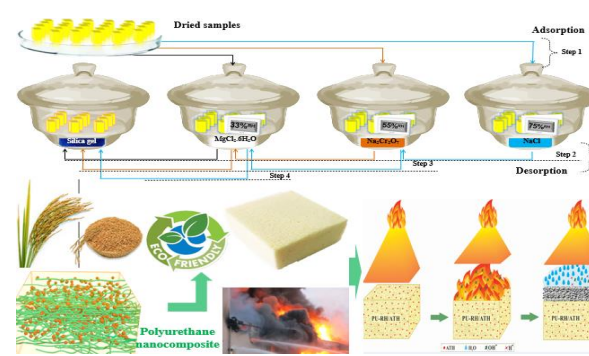
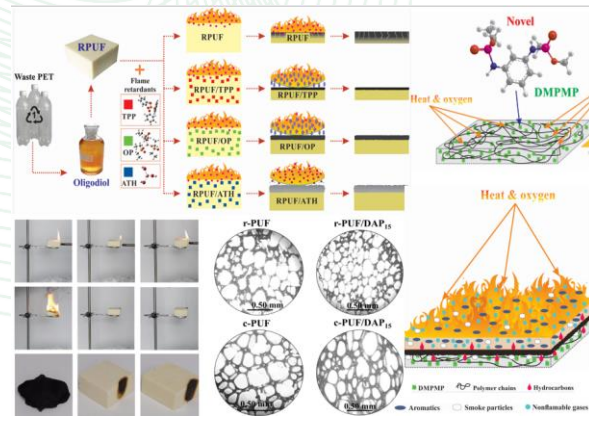
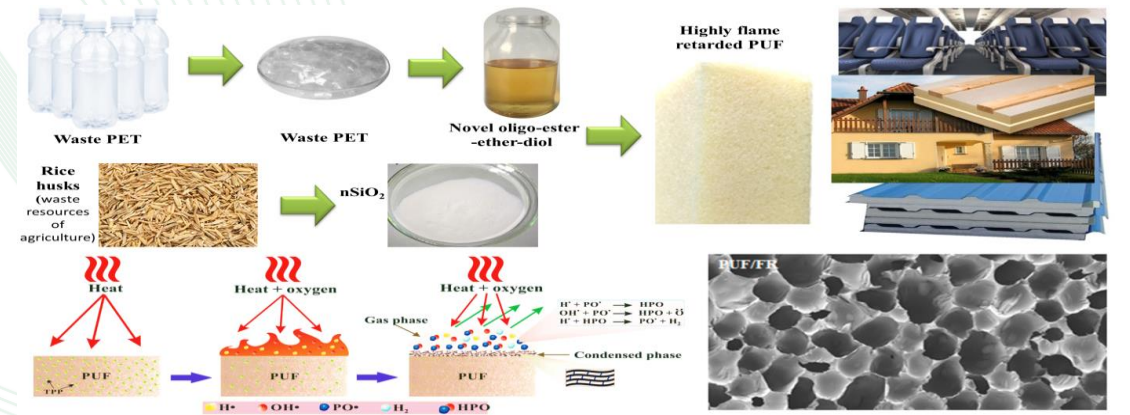
Polymer/ Polymer composite/ Polymer nanocomposite materials find many uses as engineering plastics in a wide variety of applications and quality of modern life has been improved by their utilization. Polymer and polymer composite/nanocomposite materials based on unsaturated polyester, polyurethane, polyolefin-wood flour, and so on have many applications for engineering, electronic, marine, and construction purposes. However, these materials are poor inherently in heat and flame resistance. They are easily flammable and then suffer from limitations in certain areas of application. Therefore, the incorporation of flame retardants to reduce the combustibility of polymers and reduce smoke or toxic fume generation has become an important part of the development and practical application of these materials.



Research field



Recycling of waste poly(ethylene terephthalate) and rice husk into thermally stable and highly flame retarded polyurethane nanocomposite: environmental and sustainable development.



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