

RSC Applied Polymers

GOLD OPEN ACCESS

The application of polymers, both natural and synthetic

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Fundamental questions Elemental answers

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Showcasing research from Professor Liu's laboratory, Shandong University, Jinan, China.

Ultrafast and highly selective gold recovery with high capture capacity from electronic waste by upconversion of a silsesquioxane-based hybrid luminescent aerogel

Ultrafast, highly selective and adsorption of gold with high capacity from electronic-waste is assisted by *in-situ* photocatalytic reduction of Au(III) through a hybrid upconversional luminescent aerogel. The fabrication of functional aerogel devices by chemical grafting of porous material with a soft polymer matrix overcomes the limitations of difficult molding of porous material and expands its applications.



