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(54) Title: REGENERABLE SMART MATERIALS FOR SELECTIVE REMOVAL OF POLLUTANTS FROM WATER AND WASTE WATER

(57) Abstract: The present disclosure relates to a system and regenerable molecular media for wastewater purification treatment and a preparation method thereof. The molecular filter media of the present invention are extremely high surface area filter granules and pellets that are either supplied loose or molded into blocks. The industry uses these for filtration in flow-through filter devices. The disclosed regenerants effectively break bonds and get the molecular filters ready for the next cycle of use.



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