

Adsorption of organic micropollutants from water using Hypersol-Macronet polymers

-- Adsorption of phenol and its derivatives from water using synthetic resins and low



Description: -

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Tags: #Removal #of #Antibiotics #from #Water #by #Polymer #of #Intrinsic #Microporosity: #Isotherms, #Kinetics, #Thermodynamics, #and #Adsorption #Mechanism

Adsorption of micropollutants present in surface waters onto polymeric resins: Impact of resin type and water matrix on performance

Chemical Engineering Journal 2019, 369 , 928-946. These findings demonstrate the promise of porous cyclodextrin-based polymers for rapid, flow-through water treatment. Finally, the study showed that PIM-1 is capable of removing a wide range of antibiotics with nearly 80% removal at the optimized conditions from aqueous solutions within short operation time.

Using polymer coated nanoparticles for adsorption of micropollutants from water

As in Milli-Q water the differences between adsorption by the polymer adsorbent and PAC appeared to be small or negligible, we only show the results obtained in DW in. Chemosphere 2021, 267 , 128863. The range of ciprofloxacin data in Langmuir fit A, x-axis: 0.

Clay

At pH 2, PIM-1 is positively charged with a surface potential of 16. AA might be a very interesting option here.

Using polymer coated nanoparticles for adsorption of micropollutants from water

A simple approach to enhance the water stability of a metal-organic framework.

Preparation of a permanent magnetic hypercrosslinked resin and assessment of its ability to remove organic micropollutants from drinking water

It is a type of clay with a layered structure with positive ions in between the separate layers. Li H, He X, Zhao Y 2014 Resources, application and extraction status of rhenium

Adsorption Behaviors of Organic Micropollutants on Zirconium Metal

Evaluating the vulnerability of surface waters to antibiotic contamination from varying wastewater treatment plant discharges. International Journal of Environmental Analytical Chemistry 2020, 100 15 , 1753-1762.

Adsorption of micropollutants present in surface waters onto polymeric resins: Impact of resin type and water matrix on performance

Removal of Tetracycline in Sewage and Dairy Products with High-Stable MOF.

Removing polycyclic aromatic hydrocarbons from water using granular activated carbon: kinetic and equilibrium adsorption studies

Langmuir 2008, 24 13 , 6420-6424. Determination of equilibrium was experimentally achieved by measuring the adsorbate concentration and determining the saturation point.

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