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Removal of micropollutants by fresh and colonized magnetic powdered activated carbon

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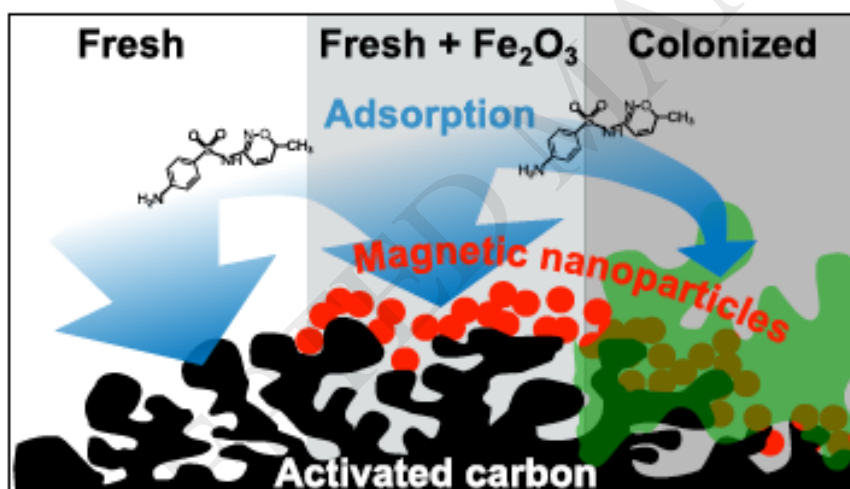
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Graphical Abstract



Highlights

- We prepared magnetic activated carbon 10 %, 38 % and 54 % maghemite nanoparticles
- Nanoparticles did not contribute to the adsorption of 9 micropollutants
- Adsorption capacities for micropollutants were proportional to the carbon content
- Adsorption capacities of aged magnetic adsorbents (90 days) were 10 times lower

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