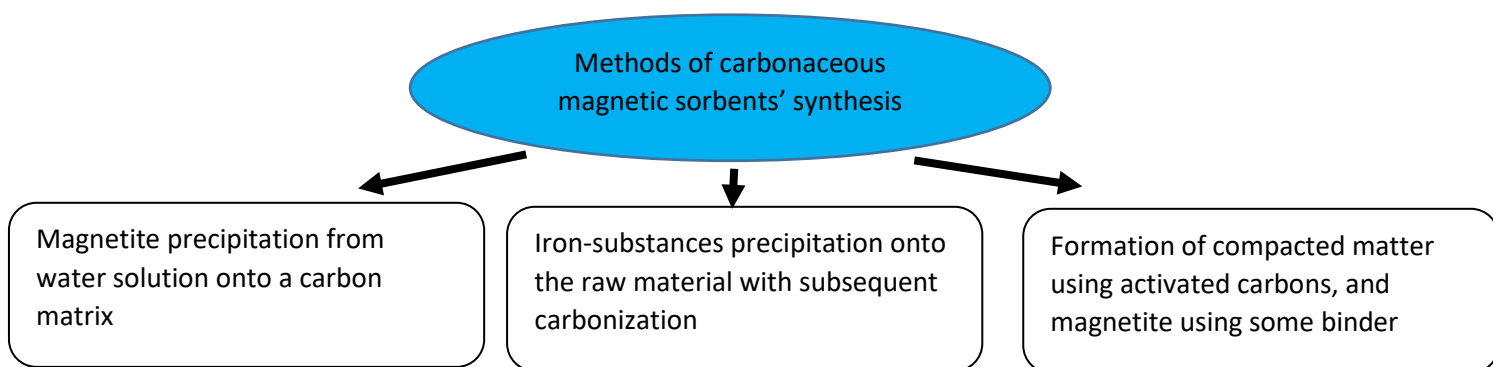


MAGNETIC SORBENTS BASED ON ACTIVATED CARBONS FOR ORGANICS PRECONCENTRATION

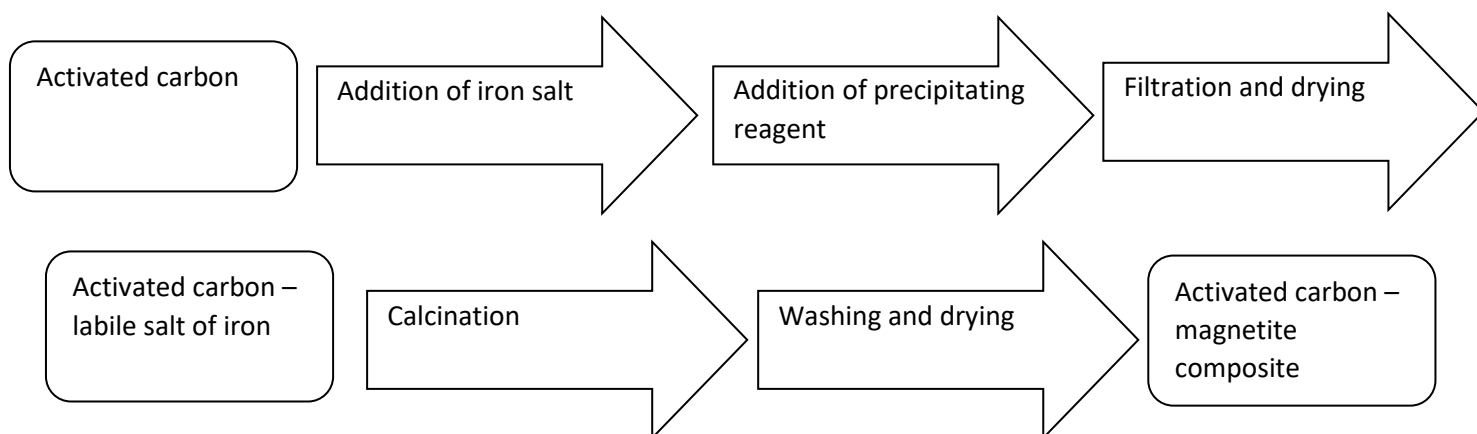
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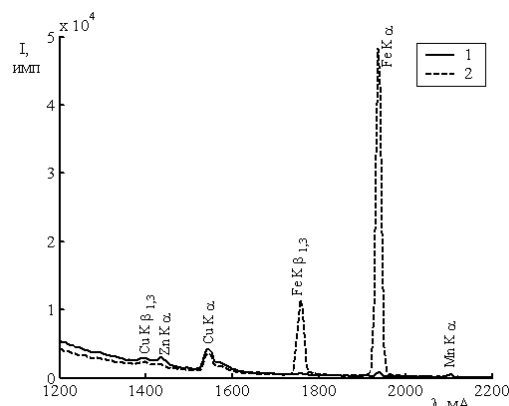
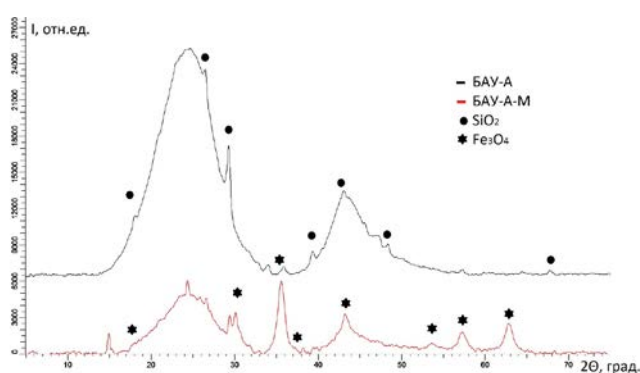
The main drawback of the precipitation approaches is the difficulties in the magnetite obtaining. We suggested another approach based on the thermal decomposition of the labile iron salts.

The general scheme of the synthesis



The synthesis was performed using activated carbon BAU-A as a carbonaceous material and iron oxalate as the labile salt. The magnetite formation was evidenced by the magnetic character of the product, XRD and X-ray fluorescence analysis. The sorption parameters of the product are close to the find for the initial activated carbon.

Sample	Benzene adsorption, mg/g	Methylene blue adsorption, mg/g
Activated carbon	350	136
Activated carbon-Fe ₃ O ₄	314	100



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