**Изучение адсорбционных свойств углей, полученных из**

**рисовой шелухи**

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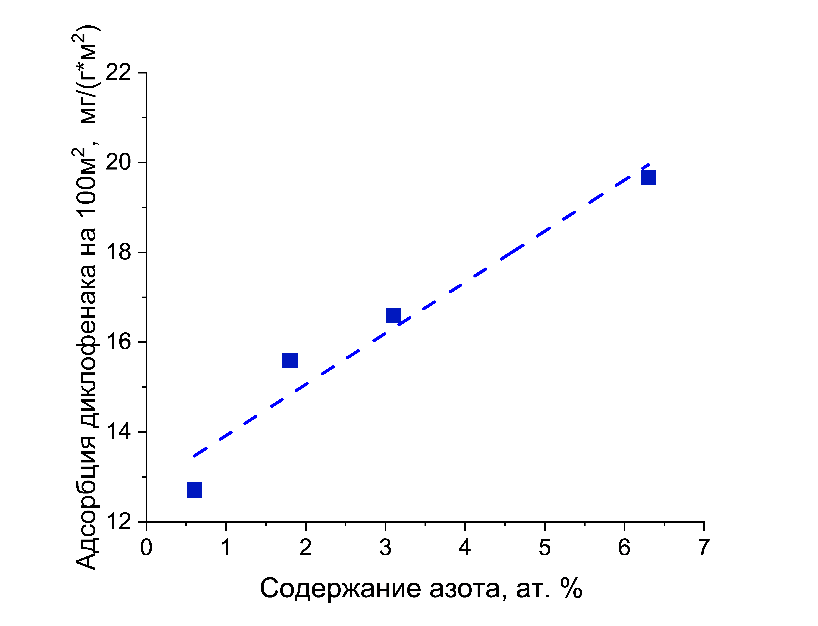
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В настоящее время актуальной является проблема очистки сточных вод от различных техногенных загрязнений, включая лекарственные препараты и тяжёлые металлы. Важной остаётся задача поиска сорбентов для их удаления. В последние годы активно исследуются угли из различных видов растительной биомассы, в частности – рисовой шелухи (РШ), которая является отходом производства риса [1].

В данной работе исследованы сорбционные свойства угля, полученного в результате пиролиза РШ, в отношении диклофенака и хромат-иона как примеров часто встречающихся токсичных загрязнителей сточных вод. Исследована возможность химической модификации поверхности угля и изменение физико-химических свойств при допировании поверхности азотом с использованием различных методов. В результате синтеза с использованием мочевины получен уголь, содержащий до 6.8 ат. % азота и обладающий удельной площадью поверхности 630 м2/г.

Исследования адсорбционного равновесия с участием различных адсорбатов показали, что полученные угли из рисовой шелухи демонстрируют высокую адсорбционную ёмкость по отношению к диклофенаку и Cr(VI). При этом при модификации азотсодержащими соединениями увеличивается эффективность адсорбции, на основании чего был сделан вывод о возможности направленного улучшения адсорбционных характеристик угля при аминировании. Проведён ряд дополнительных исследований для предположения механизма адсорбции и определения роли азота в улучшении адсорбционных свойств.

 ![Изображение выглядит как Красочность, фиолетовый, Пурпурный цвет, темнота

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Рис. 1. Изменение адсорбционной ёмкости углей при азотировании

*Работа выполнена в рамках государственного задания «Физикохимия поверхности, адсорбция и катализ» № АААА-А21-121011990019-4.*

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