OAK RIDGE NATIONAL LABORATORY
Managed by UT-Battelle for the Department of Energy

Production of Biofuels with Novel Salts Impregnated Tire Carbon Catalysts

Disclosure Number

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Technology Summary

Developed a solid acid carbon catalyst derived from recycled tires for biofuel production. Impregnated tire carbon catalysts were prepared via a preparation process. It was found that certain impregnated tire carbons have the best kinetics towards the esterification of free fatty acids to fatty acid methyl esters. A balance between surface area and salt loading plays a key role in tuning the catalytic activity.

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Note: The technology described above is an early stage opportunity. Licensing rights to this intellectual property may be limited or unavailable. Patent applications directed towards this invention may not have been filed with any patent office.