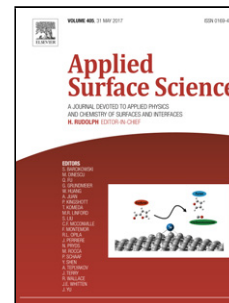


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Title: Crumb waste tire rubber surface modification by plasma polymerization of ethanol and its application on oil-well cement

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Highlight

The crumb waste tire rubber (WTR) were modified by plasma polymerization of ethanol.

Hydrophilic groups were introduced onto WTR surface and improved its hydrophilia.

The functionalized crumb WTR was applied in oil-well cement.

The mechanical properties of modified oil-well cement were intensively enhanced.

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