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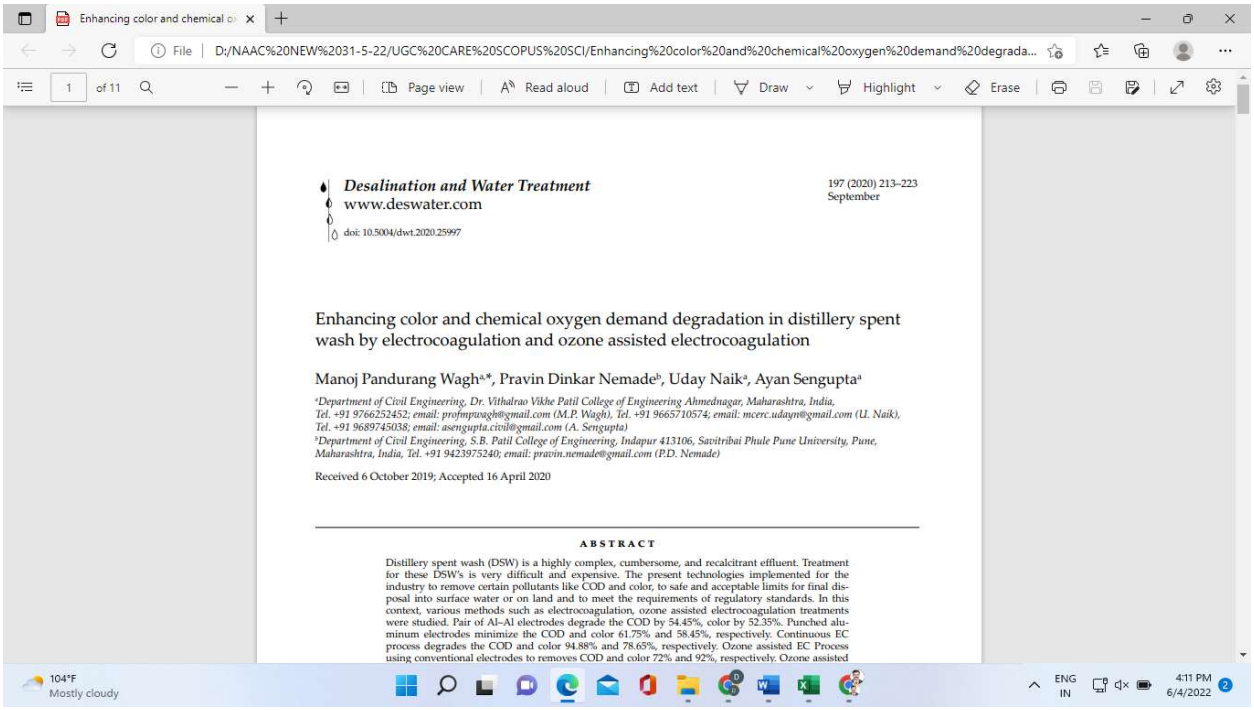

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Enhancing color and chemical oxygen demand degradation in distillery spent wash by electrocoagulation and ozone assisted electrocoagulation

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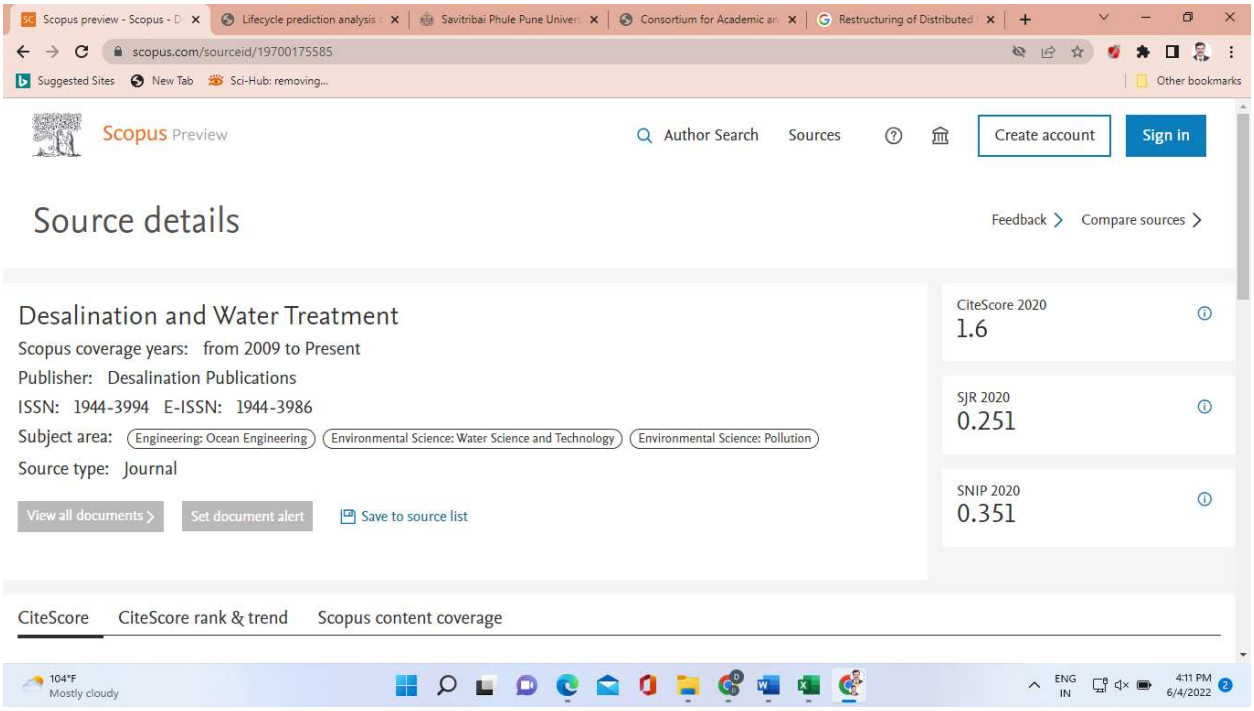
ABSTRACT

Distillery spent wash (DSW) is a highly complex, cumbersome, and recalcitrant effluent. Treatment for these DSW's is very difficult and expensive. The present technologies implemented for the industry to remove certain pollutants like COD and color, to safe and acceptable limits for final disposal into surface water or on land and to meet the requirements of regulatory standards. In this context, various methods such as electrocoagulation, ozone assisted electrocoagulation treatments were studied. Pair of Al–Al electrodes degrade the COD by 54.45%, color by 52.35%. Punched aluminum electrodes minimize the COD and color 61.75% and 58.45%, respectively. Continuous EC process degrades the COD and color 94.88% and 78.65%, respectively. Ozone assisted EC Process using conventional electrodes to removes COD and color 72% and 92%, respectively. Ozone assisted



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