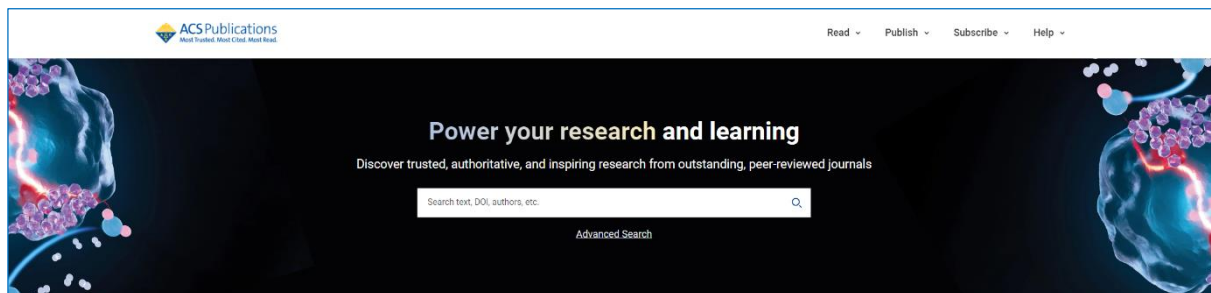
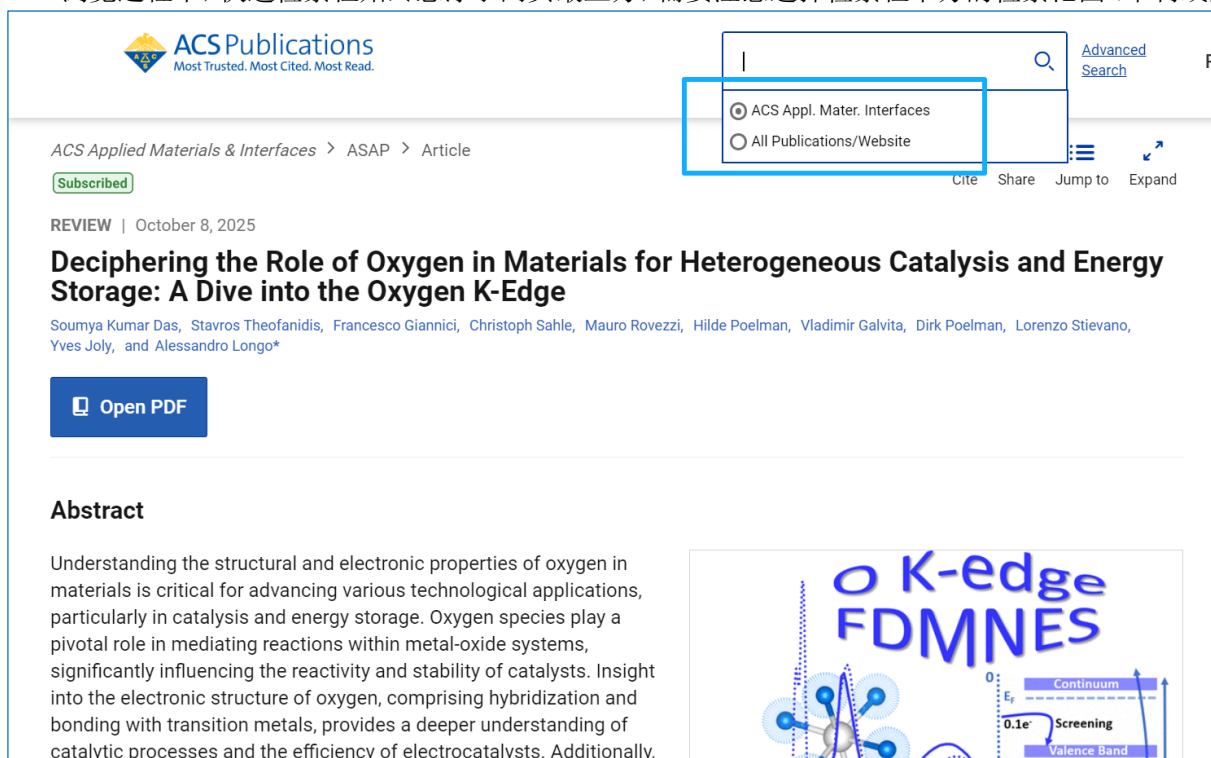


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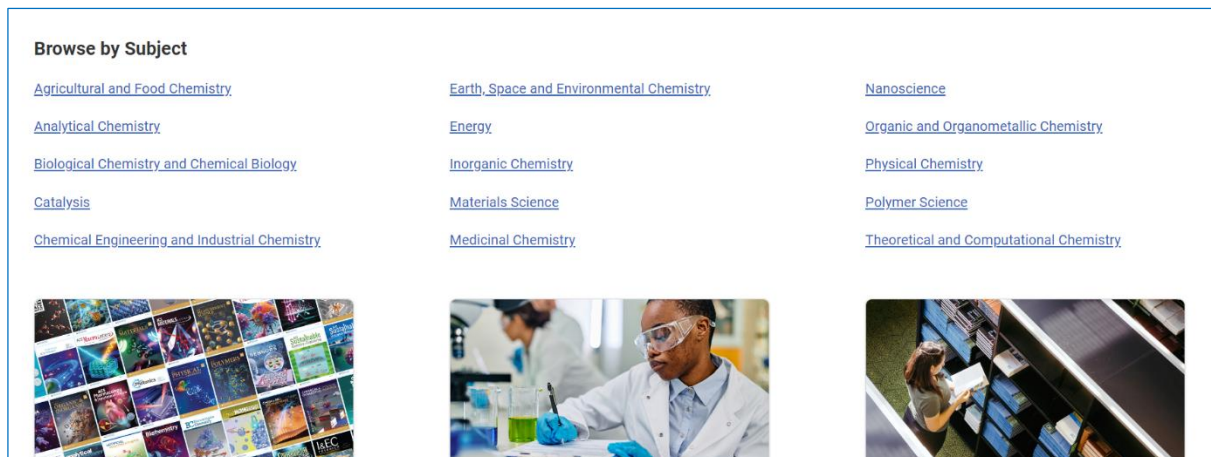
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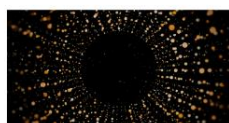
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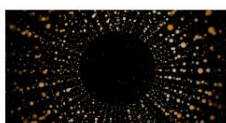
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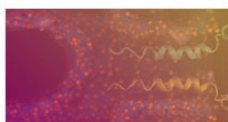
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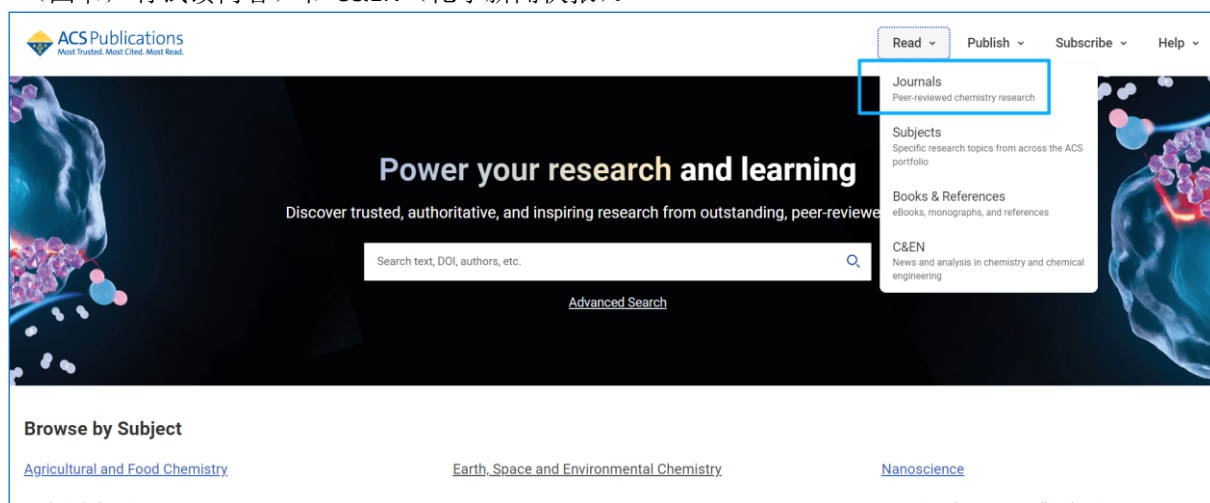


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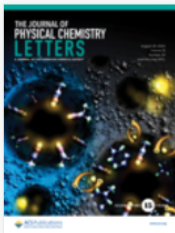
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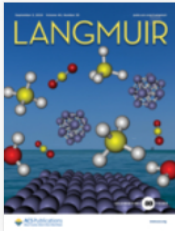
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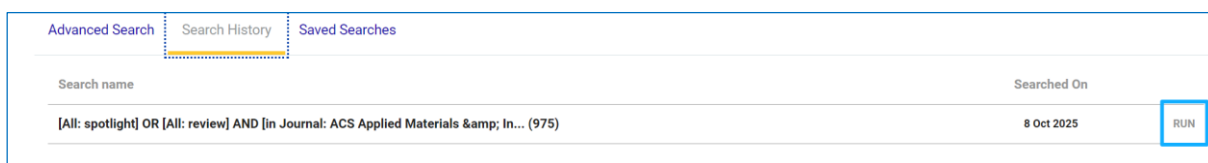
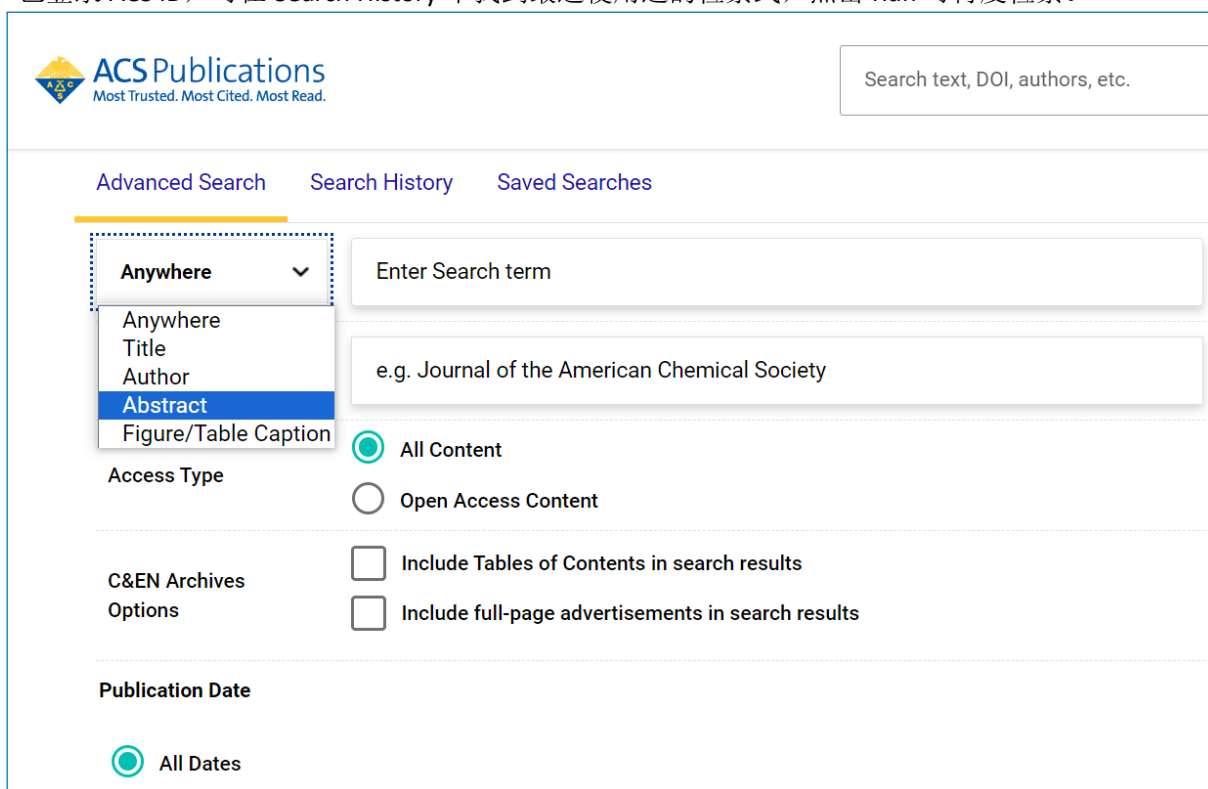


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Subramani Velu, Chunshan Song, Mark H. Engelhard, and Ya-Huei Chin

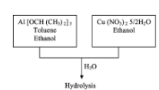
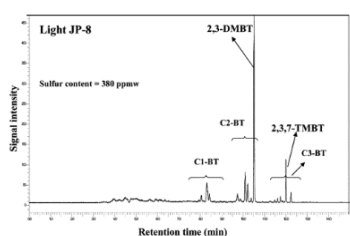
*Industrial & Engineering Chemistry Research* 2005, 44, 15, 5740-5749 (Article)  
Publication Date (Web): June 29, 2005  
DOI: 10.1021/ie0488492

Abstract

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ABSTRACT



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Article

### Sol-Gel Cu-Al<sub>2</sub>O<sub>3</sub> Adsorbents for Selective Adsorption of Thiophene out of Hydrocarbon

Xiangxin Yang, Larry E. Erickson, Keith L. Hohn, P. Jeevanandam, and Kenneth J. Klabunde

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from a model jet fuel containing 510 ppmw sulfur and a real JP-8 jet fuel containing 380 ppmw sulfur under ambient conditions either without reduction or after reduction around 600 °C. At the adsorption temperature of 80 °C, NiY zeolite containing 30 wt % Ni synthesized by incipient wetness impregnation of NH<sub>4</sub>Y zeolite was able to clean only about 10 mL of a model jet fuel per gram of the adsorbent to produce a desulfurized fuel containing below 1 ppmw sulfur. Under the same experimental conditions, a K-containing NiY zeolite cleaned about 30 mL of the fuel per gram of the adsorbent. A better sulfur adsorption performance was observed when the NiY zeolite was synthesized by ion exchange and reduced before sulfur adsorption. The reducibility and surface properties of some of the selected NiY zeolites were investigated by temperature-programmed reduction (TPR) and in-situ X-ray photoelectron spectroscopy (XPS). TPR studies indicated that the reducibility of NiY zeolite was improved when K was present as a cocation. The in situ XPS studies of unreduced and reduced samples revealed that the presence of K as a cocation in the zeolite matrix helps Ni dispersion at the surface. The promoting effect of K on the sulfur adsorption performance of NiY zeolites was therefore attributed to improved reducibility and surface dispersion of Ni when K was present as a cocation.

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**Subjects**

Adsorption Fuels Redox Reactions Sulfur Zeolites

† The Pennsylvania State University.


# Current address: Research Triangle Institute, Research Triangle Park, NC 27709.

\* To whom correspondence should be addressed. Fax: (814) 865-3248. E-mail: csong@psu.edu.

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