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### DESCRIPTION

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*Journal of Catalysis* is the premier scholarly publication in the field of **catalysis** and an indispensable source of information for chemists and chemical engineers in both industrial and academic fields. Over the last decade, *Journal of Catalysis* has been ranked among the top five **chemical engineering** journals in terms of impact and relevance. During this period, it has published some of the most important contributions to **physical chemistry** and the science and applications of catalysis.

*Journal of Catalysis* publishes original, rigorous, and scholarly contributions in the fields of **heterogeneous catalysis** and **homogeneous catalysis**. These include studies that relate **catalytic function** to fundamental chemical processes at surfaces and in **metal complexes**, novel concepts in **surface chemistry**, the **synthesis** and catalytic function of novel **inorganic solids** and **complexes**, spectroscopic methods for structural characterization, and theoretical methods of direct interest and impact in the science and applications of **catalysts** and **catalytic processes**.

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*Journal of Catalysis* also publishes Priority Communications and Research Notes. Priority Communications contain unique, exciting, and novel results that provide compelling evidence for rapid publication; while results in such communications may be of a preliminary nature, experimental details must be fully documented and the results reliably reproduced. Research Notes typically contain data and concepts that resolve in a concise but rigorous manner issues raised in previous publications.

### IMPACT FACTOR

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## ABSTRACTING AND INDEXING

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## GUIDE FOR AUTHORS

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**To find out more, please visit the Preparation section below.**

### INTRODUCTION

The *Journal of Catalysis* publishes original, rigorous, and scholarly contributions in the fields of heterogeneous and homogeneous catalysis. These include studies that relate catalytic function to fundamental chemical processes at surfaces and in metal complexes, novel concepts in surface chemistry, the synthesis and catalytic function of novel inorganic solids and complexes, spectroscopic methods for structural characterization, and theoretical methods of direct interest and impact in the science and applications of catalysts and catalytic processes.

*Journal of Catalysis* publishes manuscripts of archival value because of their significant fundamental and conceptual contributions to our understanding and practice of catalytic chemistries. The journal features authoritative articles, priority communications, research notes, and letters to the Editors. *Journal of Catalysis* is the premier scholarly publication in the field of catalysis and, over the last decade, it has been ranked among the top ten chemistry journals in terms of impact and relevance. During this period, it has published some of the most important contributions to the science and applications of catalysis and throughout its fifty-year history, it has been an indispensable source of information for chemists and chemical engineers in both industrial and academic fields.

*Journal of Catalysis* does not accept preliminary publications. It prefers full articles of scholarly in-depth studies and publishes short articles only in special cases, as Priority Communications or Research Notes. Priority Communications contain unique, exciting, and novel results that provide compelling evidence for rapid publication; while results in such communications may be of a preliminary nature, experimental details must be fully documented and the results reliably reproduced. Research Notes typically contain data and concepts that resolve in a concise but rigorous manner issues raised in previous publications

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[3] M.V. Sargent, F.M. Dean, in: A.R. Katrizky, C.W. Rees (Eds.), *Comprehensive Heterocyclic Chemistry*, Pergamon Press, Oxford, 1977, p. 599.

[4] F.E. Wagner, M. Karger, F. Probst, B. Schutter, in: P. Jena, C.B. Satterthwaite (Eds.), *Electronic Structure and Properties of Hydrogen in Metals*, Proc. NATO Int. Symp., Richmond, VA, 4-6 March 1982, Plenum, New York, 1983, p. 581.

[5] J. Ciric, US Patent 3 972 983 (1976), to Mobil Oil Corporation.

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