

Special Issue

Catalytic Conversion of Lignins for Valuable Chemicals

Message from the Guest Editor

Oxidation of native and technical lignins produces vanillin, syringaldehyde, and other valuable chemicals. Since the wide adoption of copper oxide as the traditional catalyst, numerous other catalytic systems have been proposed to improve the processes. Studies of new catalysts and their comparison with traditional ones are of great interest and are invited for submission to this Special Issue. Various oxidants can be used for production of valuable chemicals from lignins. Many methods of lignin oxidation include, but are not limited to, wet air oxidation, oxidation in different solvents, and electrochemical oxidation. Comparisons of different oxidants, processing methods, and their efficiency will allow for better evaluation of their market prospects and are also invited for submission to this Special Issue. Processing native lignins of wood and agricultural waste is closely tied to the problem of utilization and conversion of the carbohydrates remaining after oxidation, and studies on solving this problem are also invited. Finally, discussions on new fields of application, market prospects of vanillin, syringaldehyde, and related products are welcome.

Guest Editor

Prof. Dr. Valery E. Tarabanko

Institute of Chemistry and Chemical Technology of the Siberian Branch of the RAS, Krasnoyarsk, Krasnoyarsk Science Center of the RAS, Russia

Deadline for manuscript submissions

closed (31 July 2021)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/55843

Catalysts
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

[mdpi.com/journal/
catalysts](https://mdpi.com/journal/catalysts)





Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



[mdpi.com/journal/
catalysts](https://mdpi.com/journal/catalysts)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Keith Hohn

Carl R. Ice College of Engineering, Kansas State University, Manhattan,
KS, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, CAB Abstracts, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).