

## Special Issue

# Catalysis for Gaseous and Liquid Waste Detritiation

### Message from the Guest Editors

We invite you to present the results of your research for publication in a Special Issue of the journal *Catalysts* dedicated to the catalysts used in the detritiation of liquid radioactive waste and the technologies in which they are used. Regardless of the nature of the sources contaminated with tritium—solid, liquid, and gaseous—water is usually used as a working substance for the final process of the detritiation of the generated waste.

Catalysts are used both at the stage of the conversion of a tritium-containing precursor into water (the oxidation of hydrogen or an organic compound) and at the stage of subsequent isotope separation in order to obtain a product purified from tritium and its concentrate (for example, catalytic chemical isotope exchange in a water–hydrogen system). The purpose of this Special Issue of the journal is to collect, in a concentrated form, both prospecting and already completed developments in the field of creating effective technologies for waste detritiation.

---

### Guest Editors

Prof. Michael Borisovich Rozenkevich

Prof. Dr. Irina Leonidovna Rastunova

Dr. Alexey Nikolaevich Bukin

---

### Deadline for manuscript submissions

closed (10 June 2022)



## Catalysts

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.0  
CiteScore 7.6



[mdpi.com/si/84268](https://mdpi.com/si/84268)

*Catalysts*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[catalysts@mdpi.com](mailto: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).