



# JOURNAL OF MOLECULAR CATALYSIS B: ENZYMATIC

## AUTHOR INFORMATION PACK

### TABLE OF CONTENTS

●	<b>Description</b>	<b>p.1</b>
●	<b>Audience</b>	<b>p.1</b>
●	<b>Impact Factor</b>	<b>p.1</b>
●	<b>Abstracting and Indexing</b>	<b>p.2</b>
●	<b>Editorial Board</b>	<b>p.2</b>
●	<b>Guide for Authors</b>	<b>p.3</b>



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### DESCRIPTION

*Journal of Molecular Catalysis B: Enzymatic* is an international forum for researchers and product developers in the applications of **whole-cell** and **cell-free enzymes** as **catalysts** in **organic synthesis**. Emphasis is on **mechanistic** and synthetic aspects of the **biocatalytic transformation**.

Papers should report novel and significant advances in one or more of the following topics; Applied and fundamental studies of enzymes used for biocatalysis; Industrial applications of enzymatic processes, e.g. in fine chemical synthesis; Chemo-, regio- and enantioselective transformations; Screening for biocatalysts; Integration of biocatalytic and chemical steps in organic syntheses; Novel biocatalysts, e.g. enzymes from extremophiles and catalytic antibodies; Enzyme immobilization and stabilization, particularly in non-conventional media; Bioprocess engineering aspects, e.g. membrane bioreactors; Improvement of catalytic performance of enzymes, e.g. by protein engineering or chemical modification; Structural studies, including computer simulation, relating to substrate specificity and reaction selectivity; Biomimetic studies related to enzymatic transformations.

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### AUDIENCE

Organic Chemists interested in synthetic and mechanistic aspects of enzymatic transformations. Biochemists and Enzymologists interested in the molecular aspects of enzyme catalysis and Researchers in bioorganic and bioinorganic chemistry.

### IMPACT FACTOR

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## ABSTRACTING AND INDEXING

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## GUIDE FOR AUTHORS

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### INTRODUCTION

The journal is an international forum devoted to research and developments in the applications of whole-cell and cell-free enzymes as catalysts in organic synthesis. Emphasis is focused on mechanistic and synthetic aspects of the biocatalytic transformation.

Papers should report novel and significant advances in one or more of the following topics;

- Applied and fundamental studies of enzymes used for biocatalysis;
- Industrial applications of enzymatic processes, e.g. in fine chemical synthesis;
- Chemo-, regio- and enantioselective transformations;
- Screening for biocatalysts;
- Integration of biocatalytic and chemical steps in organic syntheses;
- Novel biocatalysts, e.g. enzymes from extremophiles and catalytic antibodies;
- Enzyme immobilization and stabilization, particularly in non-conventional media;
- Bioprocess engineering aspects, e.g. membrane bioreactors;
- Improvement of catalytic performance of enzymes, e.g. by protein engineering or chemical modification;
- Structural studies, including computer simulation, relating to substrate specificity and reaction selectivity;
- Biomimetic studies related to enzymatic transformations.

### *Types of Paper*

The journal publishes three types of papers:

1. Full-length, or regular papers describing original research work not previously published.
2. Reviews of specialized topics within the scope of the Journal (prospective authors should obtain preliminary approval from an Editor before preparing such an article); short reviews on enzymatic processes will be considered.
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[dataset] [1] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, Mendeley Data, v1, 2015. <http://dx.doi.org/10.17632/xwj98nb39r.1>.

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#### Examples:

Reference to a journal publication:

[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, *J. Sci. Commun.* 163 (2010) 51–59.

Reference to a book:

[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

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[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13.03.03).

Reference to a dataset:

[dataset] [5] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, *Mendeley Data*, v1, 2015. <http://dx.doi.org/10.17632/xwj98nb39r.1>.

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