# **Special Issue**

# New Electro- and Photo-Functional Materials Based on Transition Metals

### Message from the Guest Editors

Recently, evolutionary systems of the transition metal complexes have been developed. One such development is that transition metals are not the only protagonists and ligands also play the leading role. It is a new functional molecular system in which synergistic physical and chemical properties of metals and ligands appear by introducing redox activity, photo-responsivity, and magnetism into ligands. The other is a system in which transition metal complex units are connected to form one-dimensional, two-dimensional, and threedimensional polymeric structures. New properties can emerge from the physicochemical interaction between the units. When the inner space of the molecular frameworks can contain guest molecules, the hostguest interaction is expected to originate novel functionality. This Special Issue invites papers on new electro-, photo-, and magneto-functional materials based on transition metal complexes.

### **Guest Editors**

Prof. Dr. Hiroshi Nishihara

Research Center for Science and Technology, Tokyo University of Science, Tokyo, Japan

Dr. Hiroaki Maeda

Research Institute for Science and Technology, Tokyo University of Science, 2641 Yamazaki, Noda 278-8510, Chiba, Japan

### Deadline for manuscript submissions

closed (28 February 2022)



# **Molecules**

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



mdpi.com/si/76331

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

mdpi.com/journal/ molecules





## **Molecules**

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



## **About the Journal**

### Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

#### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

#### **Author Benefits**

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

### **Journal Rank:**

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

