

Special Issue

Laser Synthesis

Message from the Guest Editor

Nowadays, the laser-based synthesis of nanoscopic objects of micro- and nano-structures have found their place in many areas, such as integrated optical devices, catalysis, sensors, displays, quantum dots, solar cells, nano-biophotonics, and medicine. Modern progress in these applications is based on a combination of both experimental and numerical studies. This Special Issue of *Molecules* aims to collect papers covering all types of laser interactions with various materials, ranging from metals to dielectrics and polymers, from non-organic to organic, from macroscopic to micro- and nano-scopic objects. The involved laser systems can also vary from continuous wave (CW) to ultra-short (femtosecond), and even the most modern can be attosecond ones. The articles should not only describe laser-based techniques and results, but, importantly, should bring more light on the mechanisms involved, such as non-linear photo-ionization, photo-chemistry, non-linear laser propagation effects, electronic excitations, charge transfer, and so on.

Guest Editor

Prof. Dr. Tatiana E. Itina

Institute of Engineering and Systems Sciences (INSIS), French National Center for Scientific Research (CNRS), 75016 Paris, France

Deadline for manuscript submissions

closed (15 November 2019)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6

CiteScore 8.6

Indexed in PubMed

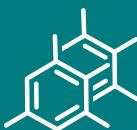


mdpi.com/si/23606

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

[mdpi.com/journal/
molecules](http://mdpi.com/journal/molecules)





Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



[mdpi.com/journal/
molecules](http://mdpi.com/journal/molecules)

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 15.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

