

## Special Issue

# Excitons in Molecular Aggregates

### Message from the Guest Editors

A molecular aggregate is a collection of organic dye molecules held in close proximity. In many cases, chromophores are strongly bound to a macromolecular scaffold such as a protein via covalent bonds, and in other cases, molecules are bound by weaker van der Waals forces. The same electronic interactions can lead to electronic energy transfer. These characteristics have made excitons in molecular aggregates attractive for potential application in quantum-information and solar-energy devices. Nonetheless, fundamental questions remain about how tight synthetic control of the molecular or supramolecular structures can be used to tailor the electronic and vibrational environment of the excitons. This Special Issue explores how computational, theoretical, and laboratory measurement studies can be used to yield a comprehensive understanding of excitons in molecular aggregates, including natural biological complexes and tailored synthetic systems. Both original research articles and reviews in the field are welcome.

### Guest Editors

Dr. Daniel B. Turner

Micron School of Materials Science and Engineering, Boise State University, Boise, ID 83725, USA

Dr. Lan Li

Micron School of Materials Science and Engineering, Boise State University, Boise, ID 83725, USA

### Deadline for manuscript submissions

closed (28 February 2023)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.2  
CiteScore 7.4  
Indexed in PubMed



[mdpi.com/si/81589](https://mdpi.com/si/81589)

*Molecules*

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

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





# Molecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.2  
CiteScore 7.4  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all 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 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

#### 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 2.4 days (median values for papers published in this journal in the second half of 2024).