

## Special Issue

# Fundamental Aspects of Chemical Bonding

### Message from the Guest Editor

The editorial board of *Molecules* invites you to submit an article to a Special Issue entitled "Fundamental Aspects of Chemical Bonding". The chemical bond is one of the most fundamental concepts in chemistry. It explains why atoms are attracted to each other or why chemical reactions occur. There are two main categories of chemical bond based on their strength, namely, primary or strong bonds, i.e., covalent, metallic and ionic bonds, and secondary or weak bonds, i.e., dipole–dipole interactions, hydrogen bonds, etc. Different approaches are used for describing chemical bonding, i.e., molecular–orbital (MO), valence–bond (VB), electron localization function (ELF), quantum theory of atoms in molecules (QTAIM), etc. *Molecules* is indexed by the Science Citation Index Expanded (Web of Science), MEDLINE (PubMed) and other databases, and has an Impact Factor of 4.927 (2021).

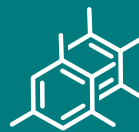
### Guest Editor

Dr. Demeter Tzeli

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### Deadline for manuscript submissions

closed (31 December 2023)



## Molecules

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## 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.

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### Editor-in-Chief

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