

Quantum Chemistry

Guest Editor:

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Deadline for manuscript
submissions:

closed (15 February 2021)

Message from the Guest Editor

Dear Colleagues,

Quantum Chemistry has become an important tool in multiple scientific areas such as chemistry, biochemistry, and materials. In a time when computational power is reaching the exascale, quantum chemistry faces new challenges and opportunities, in particular, the need for new algorithms which are suitable for highly parallel environments. We thus invite contributions detailing the latest progress in quantum chemistry including on algorithms, software, and applications. All methods from different backgrounds, such as semi-empirical, DFT or coupled-cluster, are welcome. Important are also contributions detailing the latest software implementations and capabilities. We seek contributions on the latest uses of quantum mechanical methods to study large and complex systems, including applications to chemistry, biochemistry, drug discovery, and materials modeling and design. Please note that all submitted papers must be within the general scope of the *Symmetry* journal.

Dr. Pedro E.M. Lopes
Guest Editor





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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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