Message from the Guest Editor

The electron density of a given material, be that a molecular species of relevance to life science or an inorganic phase that physicists appreciate, is a determining factor for many of its essential and unique physical properties, and it is obviously of huge importance in any study of physical properties of solid matter. The chemical systems under scrutiny are increasingly complex, and for instance the first electron density determinations of excited states have surfaced in recent years. In parallel, the electron density may also be obtained by computational methods and this field is developing at an even higher pace thanks in large to the increasing speed of computers.

With this Special Issue, we aim to show the broad applicability of electron density analysis and its strength in addressing a large variety of chemical and physical problems.

Therefore, we invite you to contribute a research article to this Special Issue, featuring your particular scientific problem among others having in common the use of the electron density.

Keywords

- X-ray diffraction
- Electron density determination
- Topological analysis

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