Special Issue

Boron Compounds: Synthesis, Luminescence and Applications

Message from the Guest Editors

In recent times, Boron-based compounds with excellent physicochemical properties have found applications in almost all aspects of modern material industries. Moreover, the boron atom incorporation in any π-conjugated systems has resulted in an efficient photoluminescence quantum yield, showing bright luminescence mostly via triple harvesting mechanisms. By utilizing the high luminescent tricoordinate/tetracoordinate boron-embedded materials, various applications received increasing amounts of attention, such as circularly polarized luminescence (CPL), organic light-emitting diodes (OLEDs), organic field-effect transistors (OFETs), sensors, X-ray scintillators, and many more optoelectronic devices. On the other hand, very recently, B/N-embedded multiresonant TADF materials (symmetrical and unsymmetrical) were synthesized via one-pot/one-shot multiple borylations as well, which are difficult to scale-up; however, these are very important for OLEDs due to their efficient narrowband emission spectra. This Special Issue of *Symmetry* features all types of contributions based on Boron-embedded compounds with tunable unique optical properties.

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About the Journal

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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