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Compounds with Polar Metallic Bonding Volume II

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Message from the Guest Editor

The second volume of this Special Issue of Crystals is meant to collect contributions on polar intermetallics from solid-state chemistry, solid-state physics, crystallography, material sciences, and all related disciplines. The different manifestations of polarity within metallic systems lead to special behavior and unusual combinations of properties. Polarity can indicate the interplay of conduction electrons with magnetic dipoles in the lattice. It can also describe the presence of long-range, ordered electric dipole moments within a ferroelectric metal.

We would like to publish reports on synthetic approaches toward new polar intermetallics with crystallographic or metallurgic phase characterization and studies on reactivity, physical behavior, and property optimization in applied systems, as well as theoretical studies and method development, with the aim of shedding light on the nature of chemical bonding in polar intermetallic phases. The named topics may be considered only as examples; any advanced topic in the field of polar metallic bonding is welcome.

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the crystal, where science merges with beauty and innovation.

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