



## Synthesis, Structure, and Spectral Properties of Perovskite Materials

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### Message from the Guest Editors

Perovskite is a crystallographic structure described by the formula  $ABX_3$  (simple) or  $A_2(BB')X_6$  (double) perovskite, where A and B (B') are metals of very different sizes and X is an anion, e.g., O, Cl, Br, I that bonds to them.

We may even dare say that the 21st century has introduced a new era of perovskite. We have certainly observed an enormous amount of interest in the search for compounds with this structure. The chemical composition of perovskites and the change in the ion substitutions that make up this structure extremely strongly affect their physical and chemical properties. Their applications are expected not only in photovoltaics but also in spintronics, as hard magnets containing no rare earths, as multiferroics or as magnetocalorics, piezoelectric materials, as well as in electrocatalysis and photocatalysis.

Responding to the growing interest in perovskites and studying them for at least twenty years, we wish to invite as many authors as possible to contribute to this Special Edition of *Materials* devoted to Perovskites—Structure, Synthesis, and Spectroscopic Properties.





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## Message from the Editor-in-Chief

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