

## Special Issue

# Effect of Solvents and Solution Chemistry on the Properties of Perovskite Solar Cells

### Message from the Guest Editors

Despite the relatively short history of perovskite solar cells (PSCs), their power conversion efficiencies (PCEs) have steadily increased, reaching over 25%. However, among a range of fabrication methods for PSCs, the use of organic solvents in each layer is still limited. N,N-Dimethylformamide and Dimethyl sulfoxide are the most commonly used solvents for the perovskite precursor, while chlorobenzene is frequently used in both the electron transport and hole transport layers. Recently, new solvents such as N-methylpyrrolidone and trichloroethane have been explored, demonstrating superior PCEs compared to conventional solvents. Nonetheless, the precise optimization conditions and working mechanisms of these diverse organic solvents in PSCs remain unclear. This Special Issue is focused on investigating the effect of solvent and solution chemistry on the properties of perovskite solar cells. We cordially invite you to submit your original research articles and reviews to this Special Issue.

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### Guest Editors

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### Deadline for manuscript submissions

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## Crystals

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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 *Crystals*, where science merges with beauty and innovation.

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### Editor-in-Chief

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