# **Special Issue**

# Synthesis, Characterization, and Application of Highly Energetic Materials

### Message from the Guest Editor

Highly energetic material is a material that can react quickly and release heat energy under the stimulation of a small amount of external energy. Some reactions are accompanied by loud popping sounds and bright flames. In particular, due to the small size, high activity, and large contact area, nano-sized highly energetic materials have certain surface, volume, and quantum size effects, which have received more research attention. Because of their outstanding heat release ability, energetic materials have been widely used in igniters, thrusters, detonators, sensors, welding repairs, binders, and many other fields. Any novelty and promising breakthroughs are encouraged to be submitted to this research topic. This Special Issue aims to gather the latest results in simulation, synthesis, advanced characterization, and potential applications of highly energetic materials.

### **Guest Editor**

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### Deadline for manuscript submissions

closed (30 June 2025)



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### Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

### Editor-in-Chief

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