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## Advances in Hydrocarbon and NO<sub>x</sub> Adsorbers

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Deadline for manuscript  
submissions:

**closed (15 December 2022)**

### Message from the Guest Editors

Dear Colleagues,

We are very excited to invite you to submit your manuscript for publication in our Special Issue titled Advances in Hydrocarbon and NO<sub>x</sub> Adsorbers.

The concepts of passive NO<sub>x</sub> adsorbers (PNAs) and hydrocarbon traps (HCTs) were originally introduced to address NO<sub>x</sub> and HC emissions during the cold start of internal-combustion engines. The past decade has witnessed significant progress in material synthesis and formulation development for PNAs and HCTs, and even more so in the last five years where materials with well-defined crystal structures were identified along with a large variety of unique chemistries. Recent advances in our understanding of NO<sub>x</sub> and HC storage and release mechanisms revealed some impactful crystal structure–property relations that are also beneficial to many other fields of material research.

To date, despite the significant research progress made in PNAs and HCTs, there are still many scientific questions to answer and industrial challenges to resolve. Hence, we invite manuscript submissions on recent advances in hydrocarbon and NO<sub>x</sub> adsorber chemistry and engineering, which will address these challenges and other relevant questions.



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# Special Issue



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## Editor-in-Chief

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

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