


# Environmental Science: Atmospheres

GOLD  
OPEN  
ACCESS

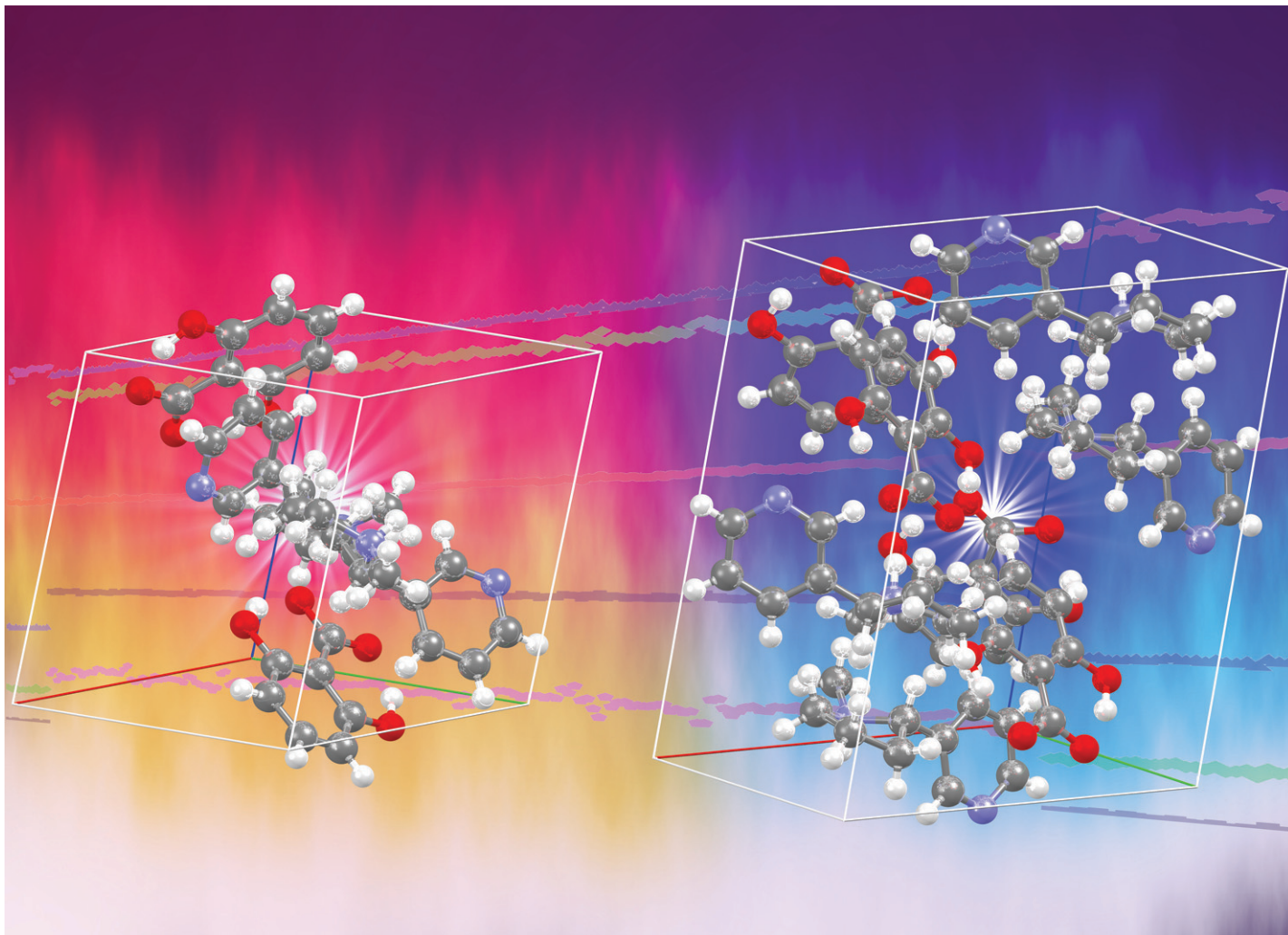
Connecting communities  
and inspiring new ideas

APCs waved until mid-2023

[rsc.li/submittoEA](https://rsc.li/submittoEA)

 @EnvSciRSC

Fundamental questions  
Elemental answers

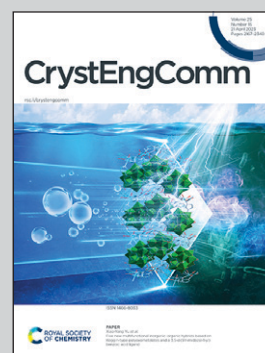


Showcasing research from Professor Benedict's laboratory,  
Department of Chemistry, University at Buffalo,  
New York, USA.

Unusual single crystal to single crystal phase transition of a  
nicotine salt monitored using temperature dependent single  
crystal X-ray diffraction

The organic salt (S)-nicotinium 2,6-dihydroxybenzoate  
undergoes reversible single crystal to single crystal phase  
transition at 104 K. The phase transition was monitored  
using temperature dependent single crystal X-ray diffraction  
and was attributed to symmetry breaking translations  
and rotations of the crystal components and results  
in an approximate doubling of the unit cell volume at  
temperatures below 104 K.

As featured in:



See Devin J. Angevine,  
Jason B. Benedict *et al.*,  
*CrystEngComm*, 2023, **25**, 2181.