

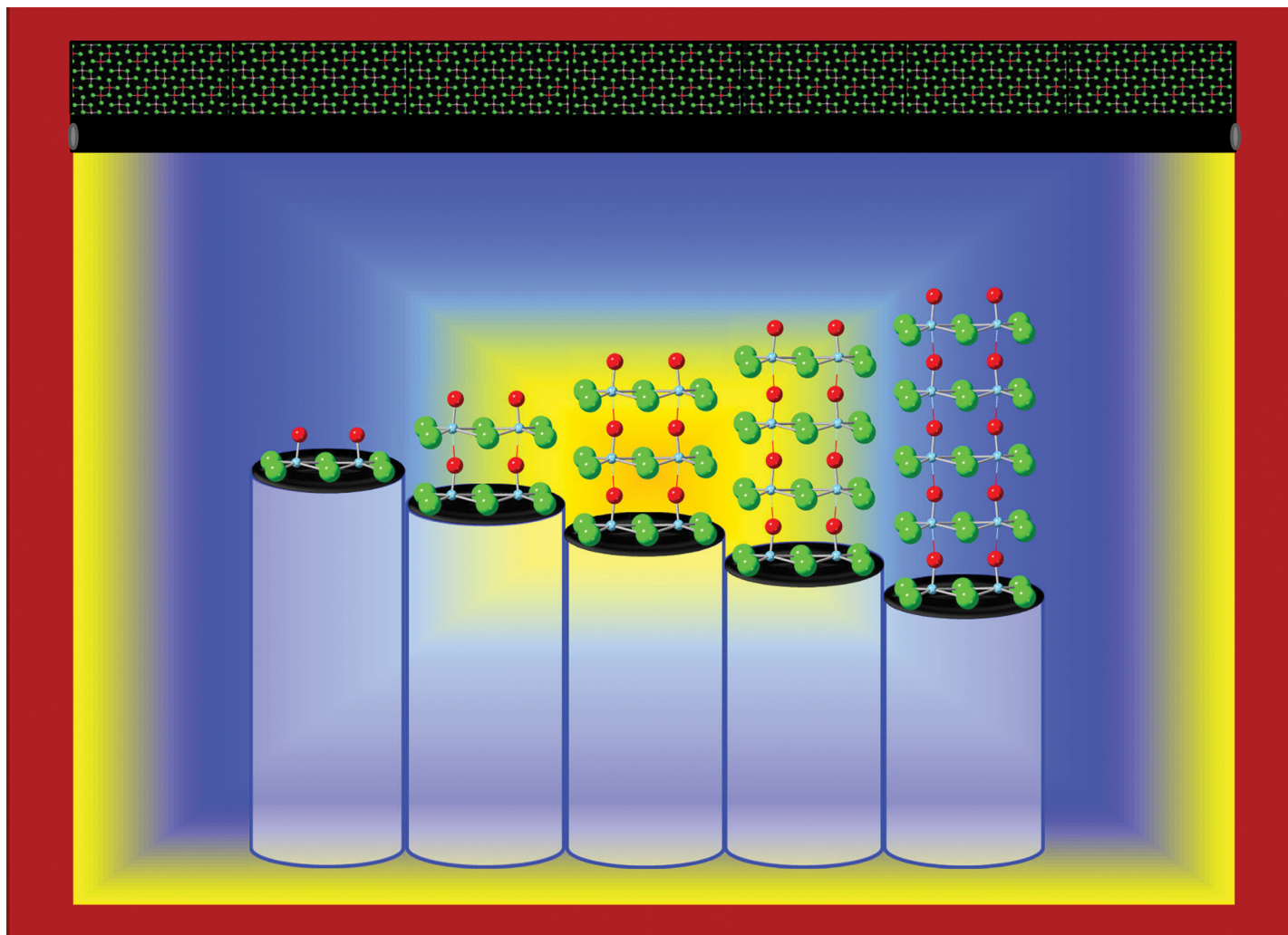
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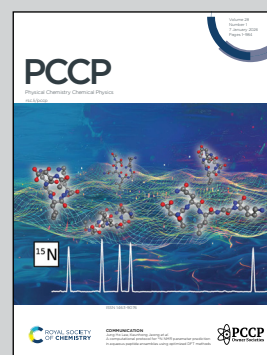
Showcasing research from Professor Kelling Donald's laboratory, Department of Chemistry, University of Richmond, Virginia, United States.

Sigma-hole-supported interactions in complexes of group 5 oxyhalides (MOX_3) with insights for their extended solids

Hoilette Jr., Stewart, and Donald demonstrate that a structural pattern observed in the extended solids of some group 5 oxyhalides – a stacking of dimers that is stabilized by sigma-hole-supported bonding interactions – is already present at the level of the tetramer. The strength of that interaction intensifies, and the average inter-dimer oxygen...metal distance shrinks, as oligomerization, hence the height of the tower, grows. The authors account for or anticipate radical deviations from that 'dimer-tower' motif in other group 5 oxyhalides.

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As featured in:



See Kelling J. Donald *et al.*, *Phys. Chem. Chem. Phys.*, 2026, **28**, 67.

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