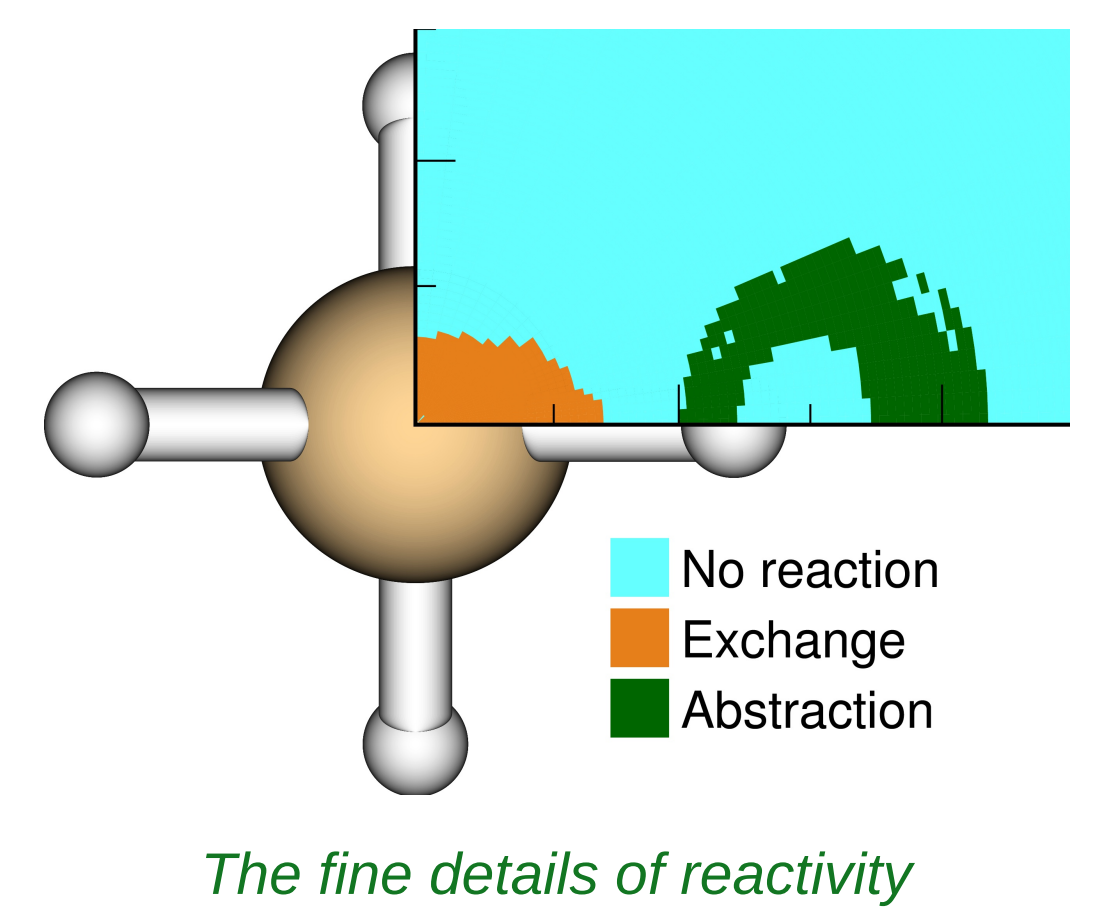
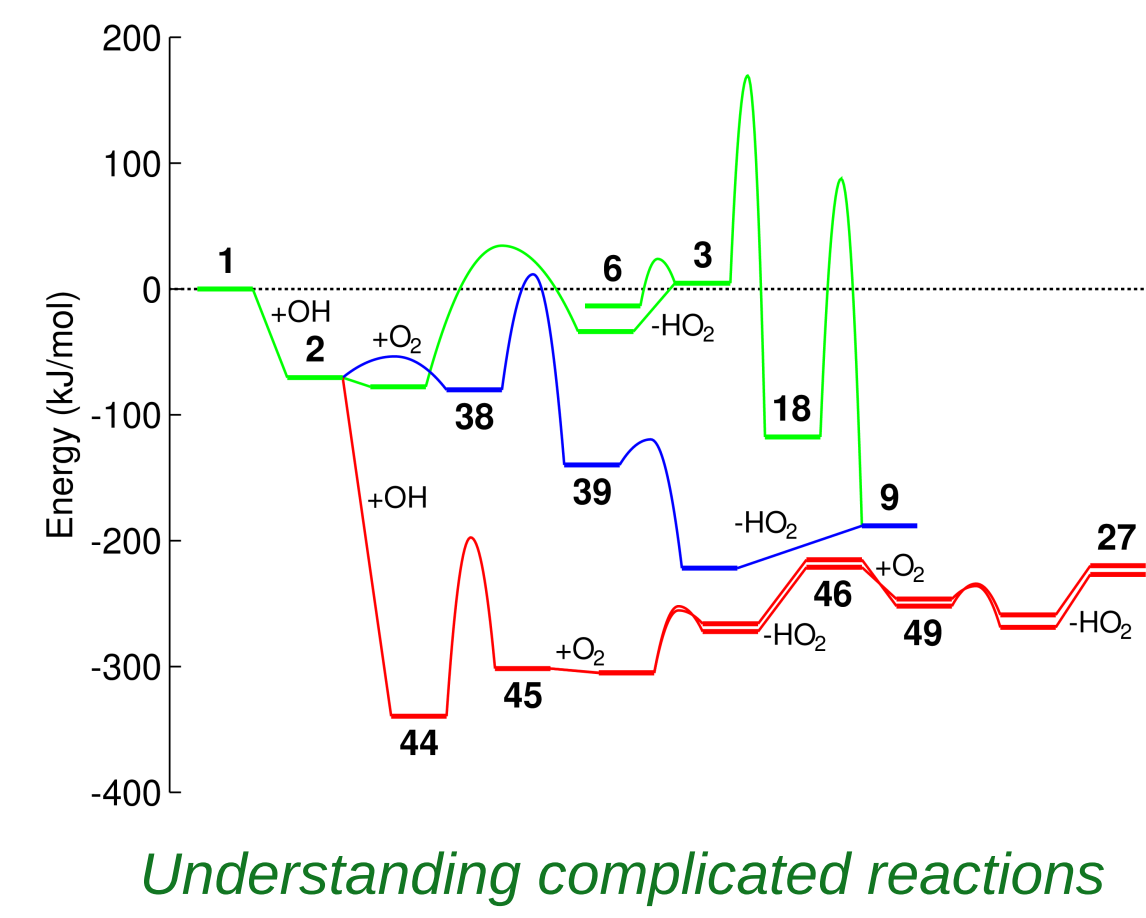
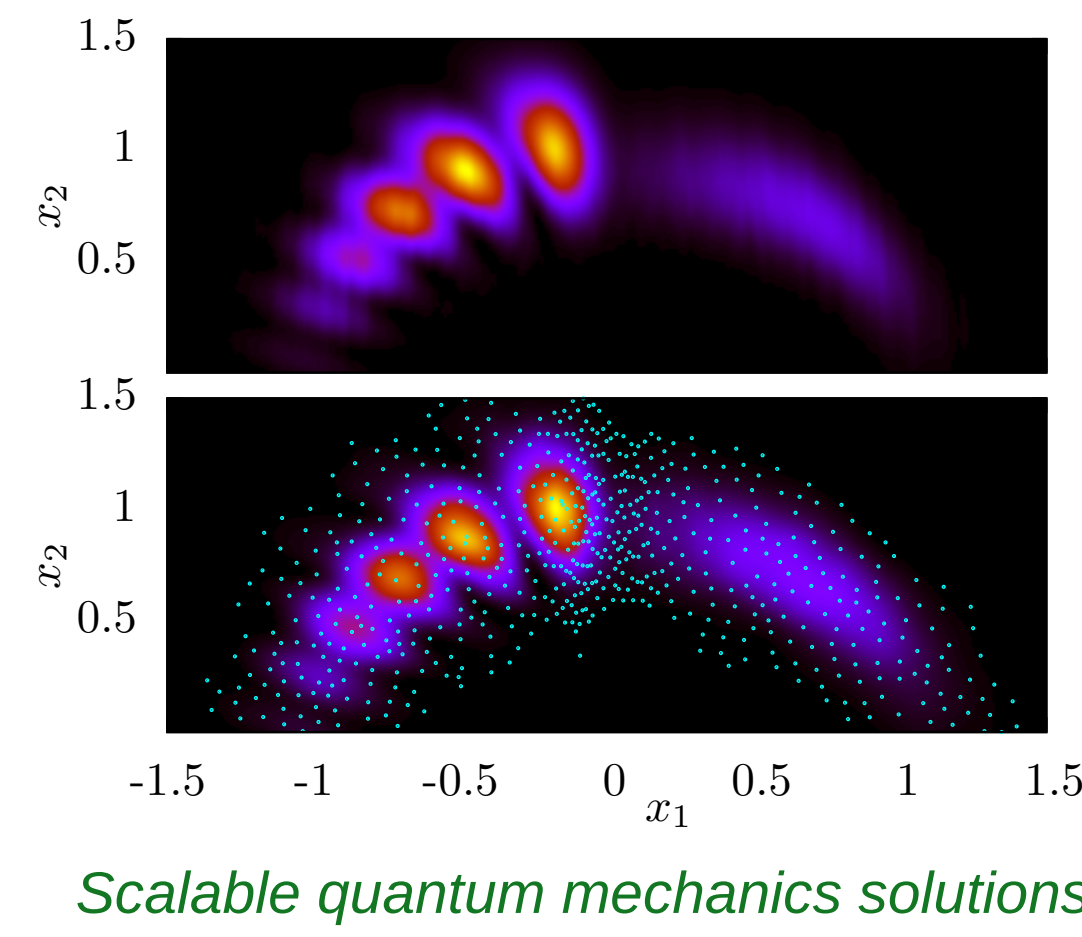


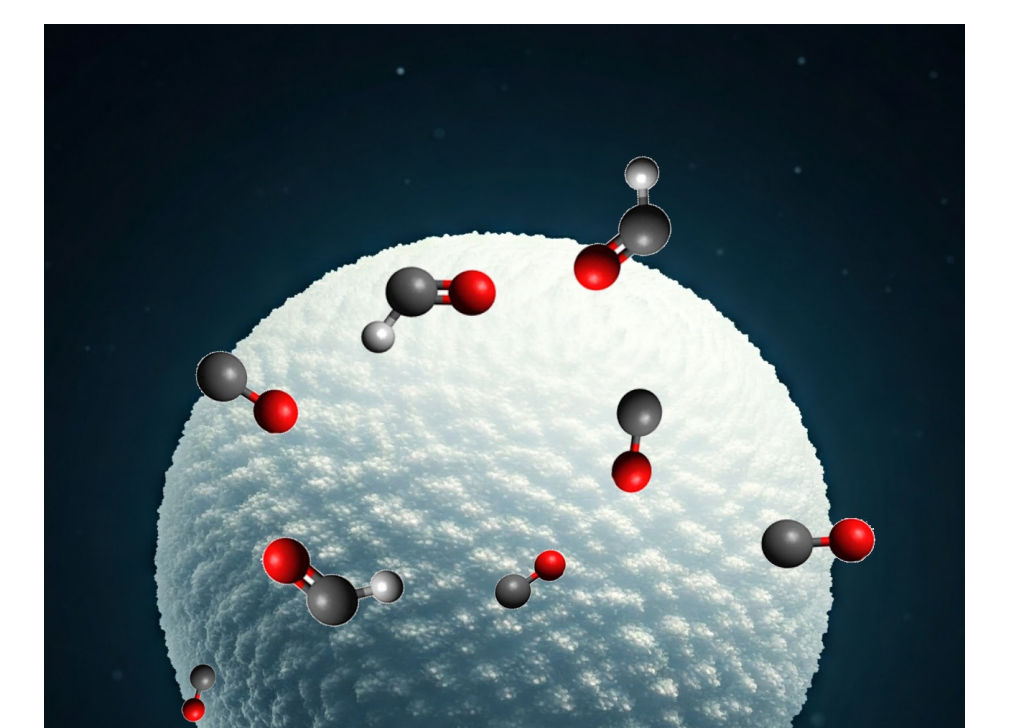
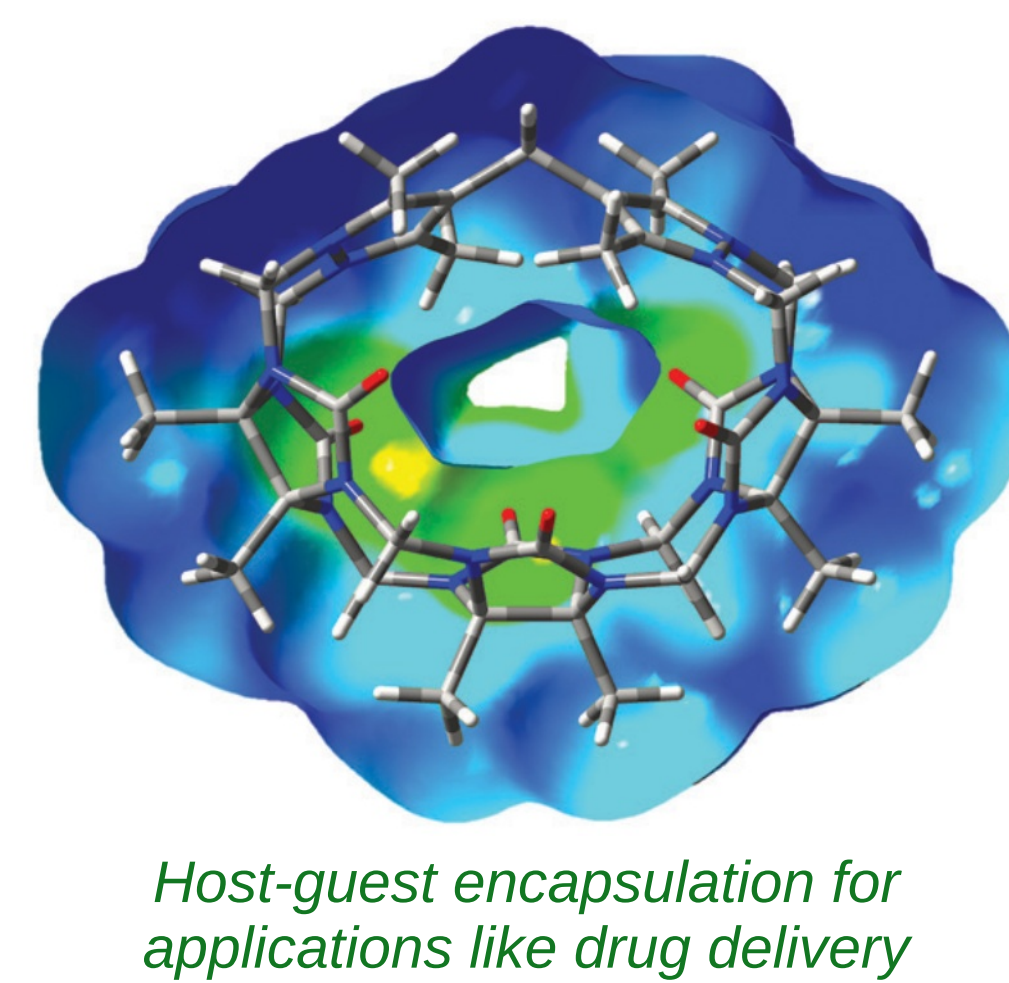
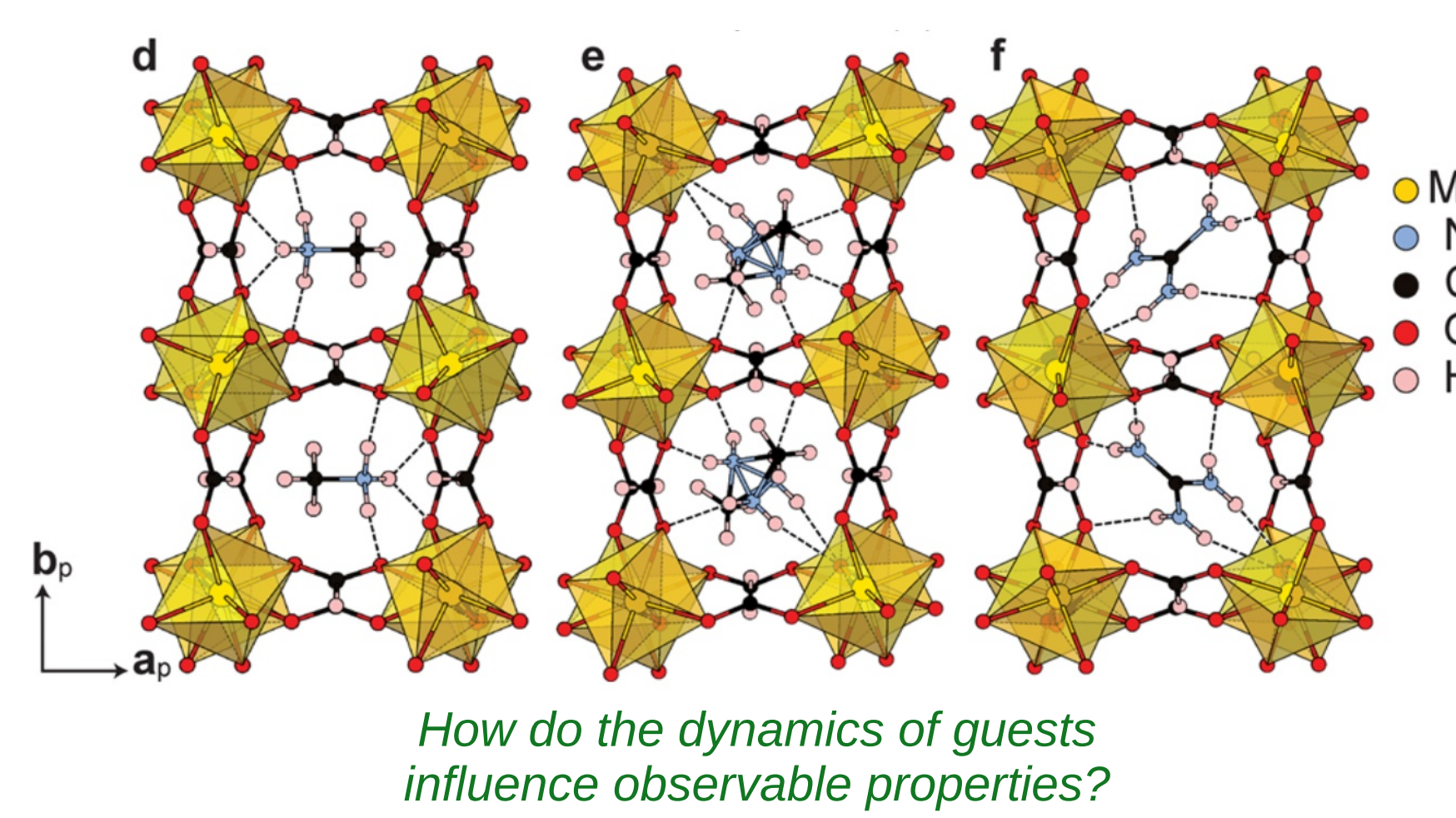
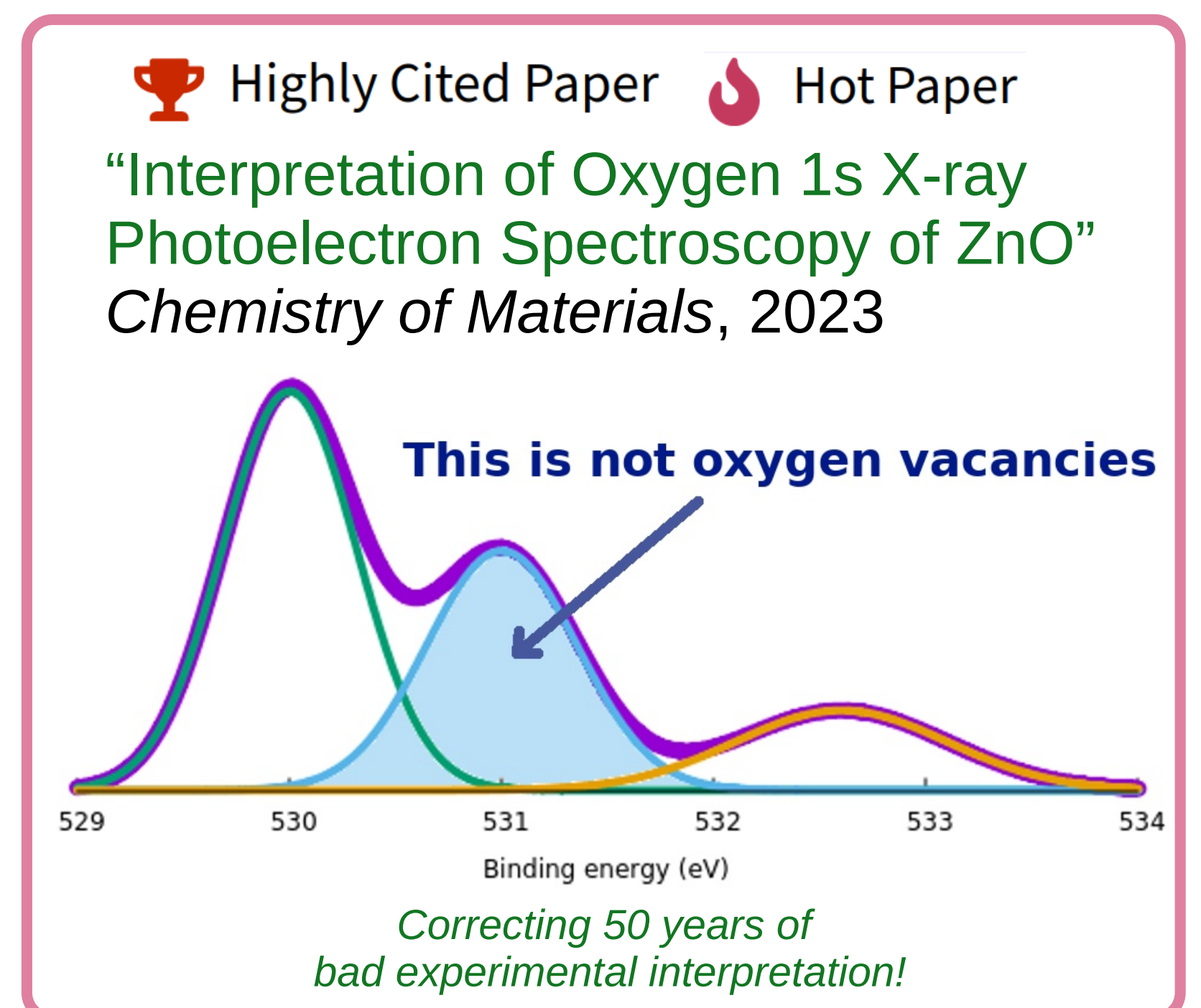
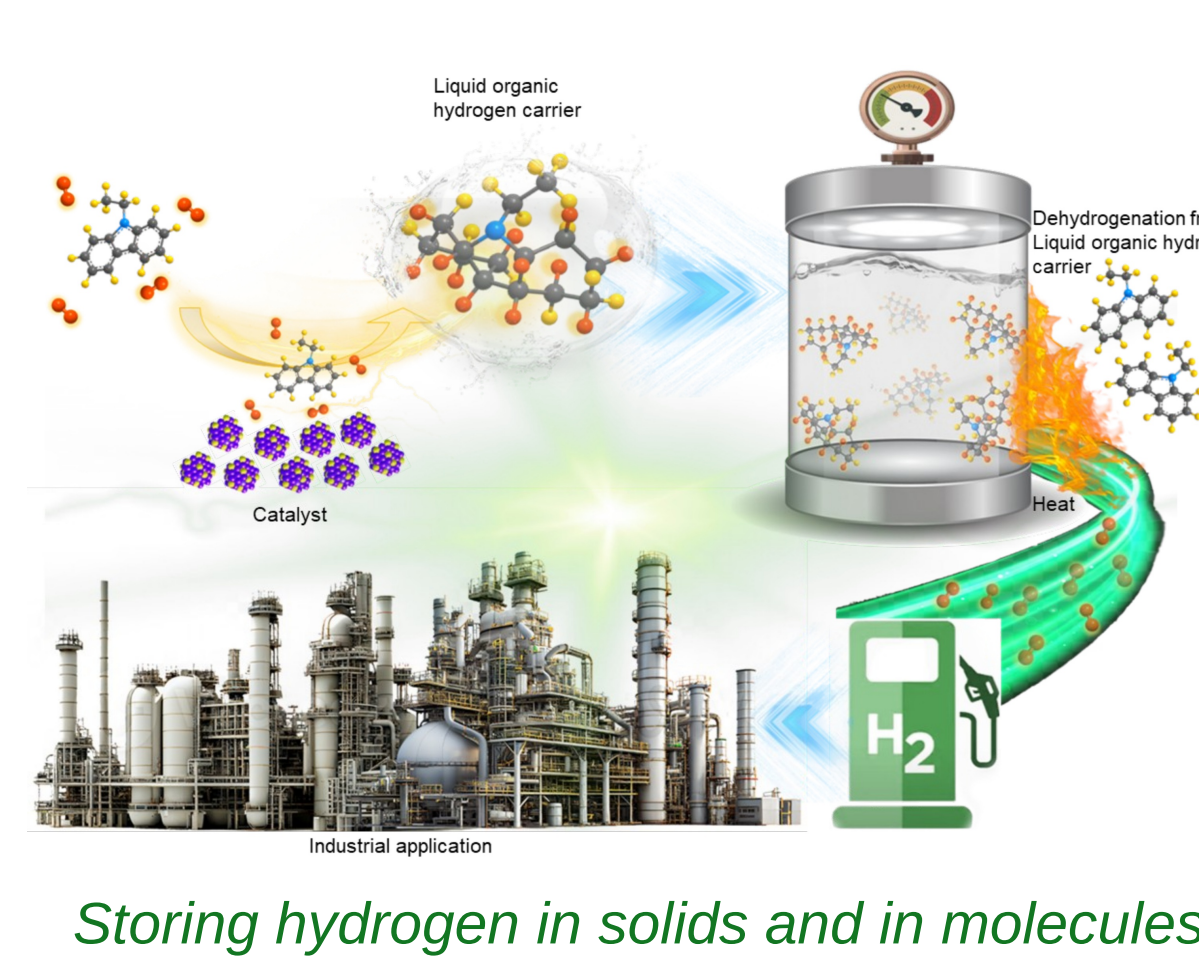
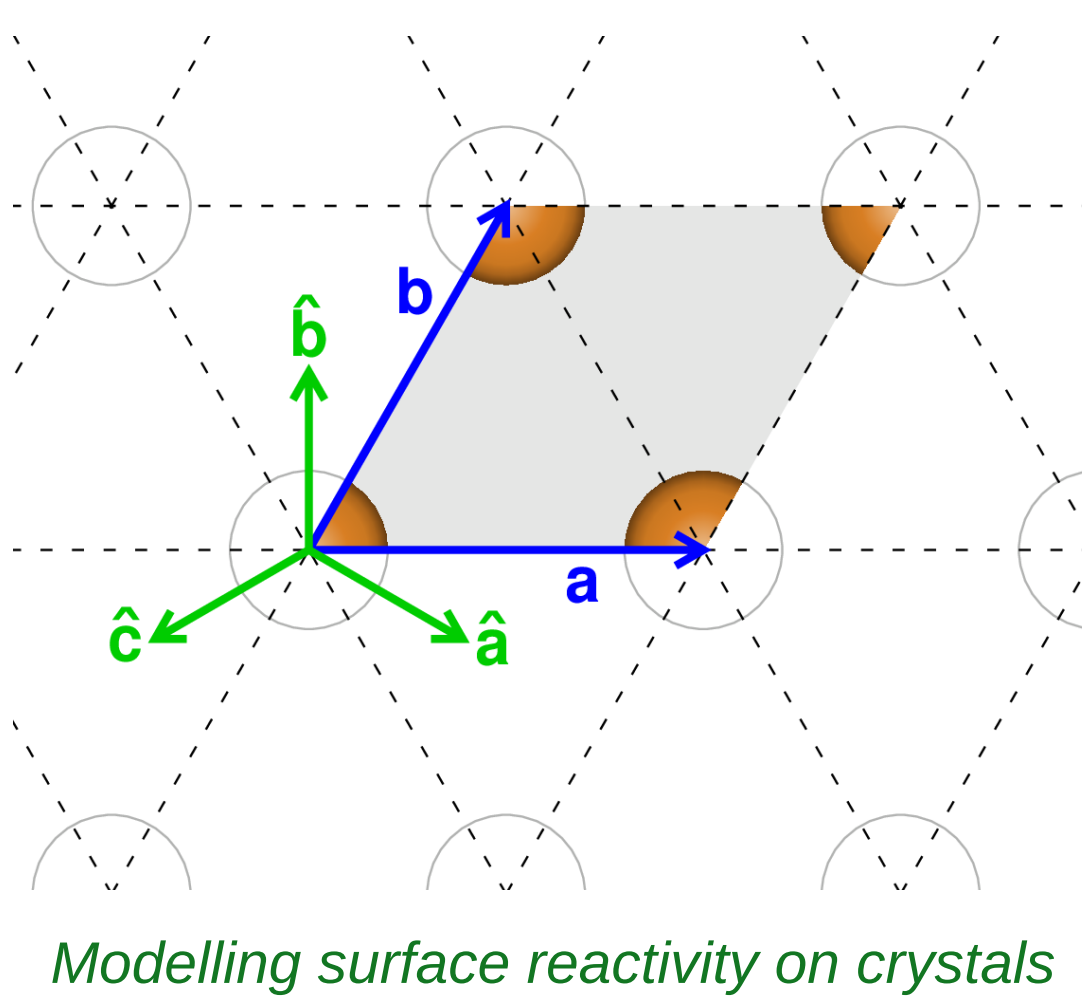
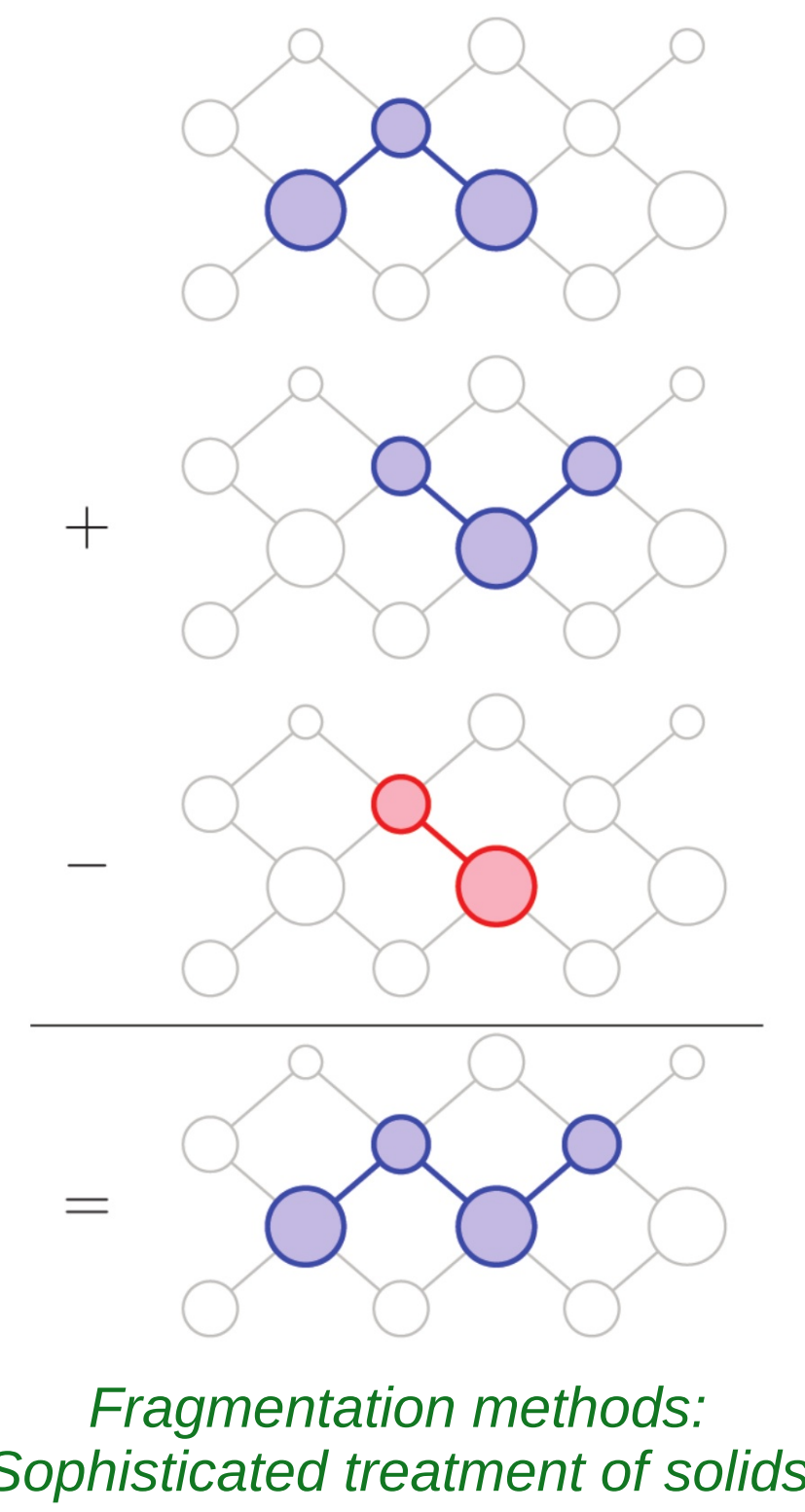
## Molecules

- Potential energy surface interpolation
- Molecular dynamics for reactions
- Quantum dynamics method development



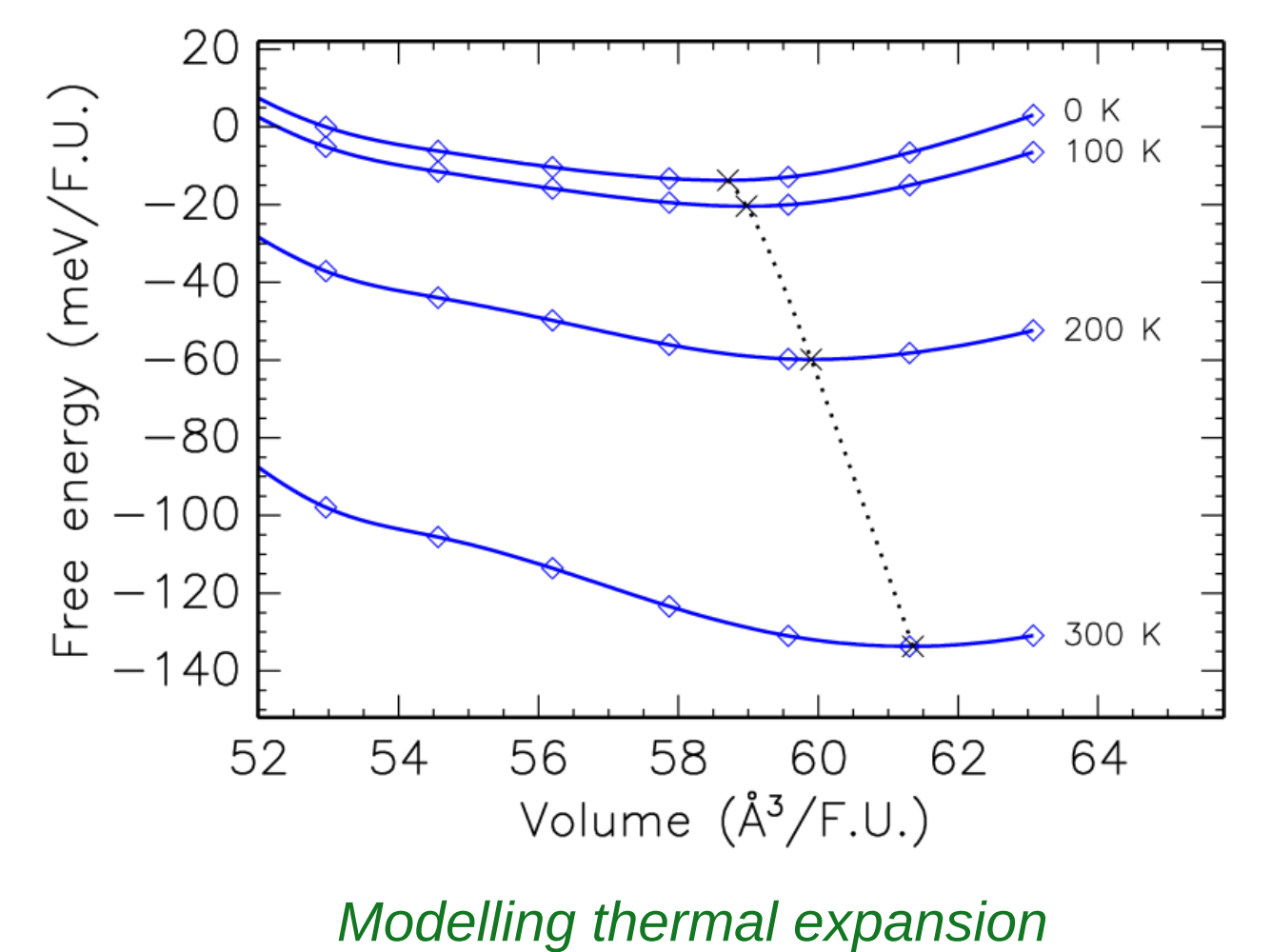
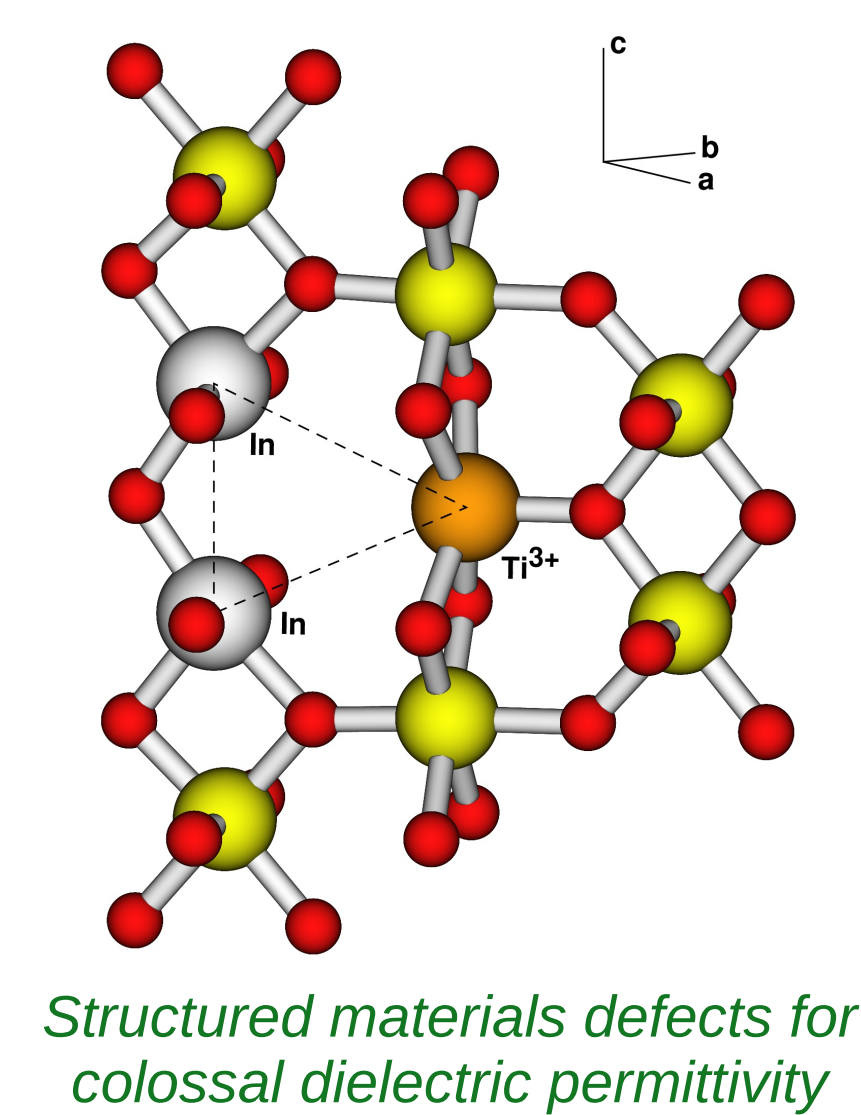
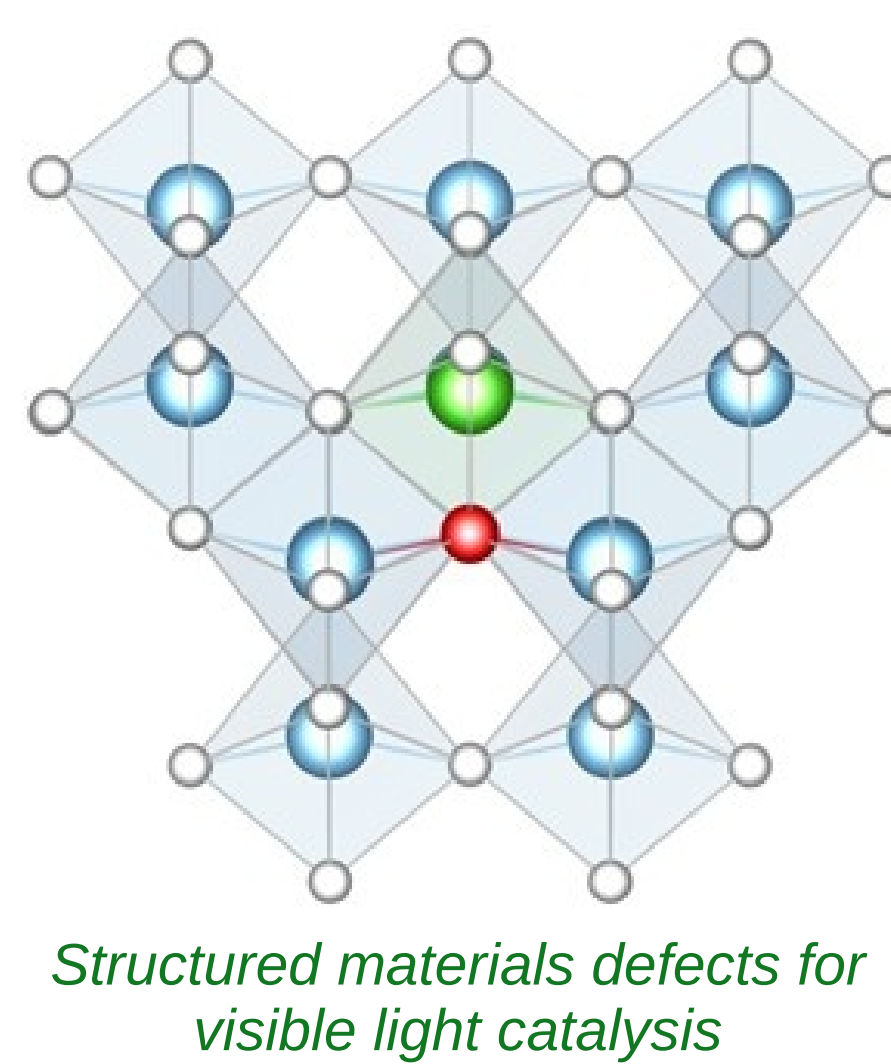
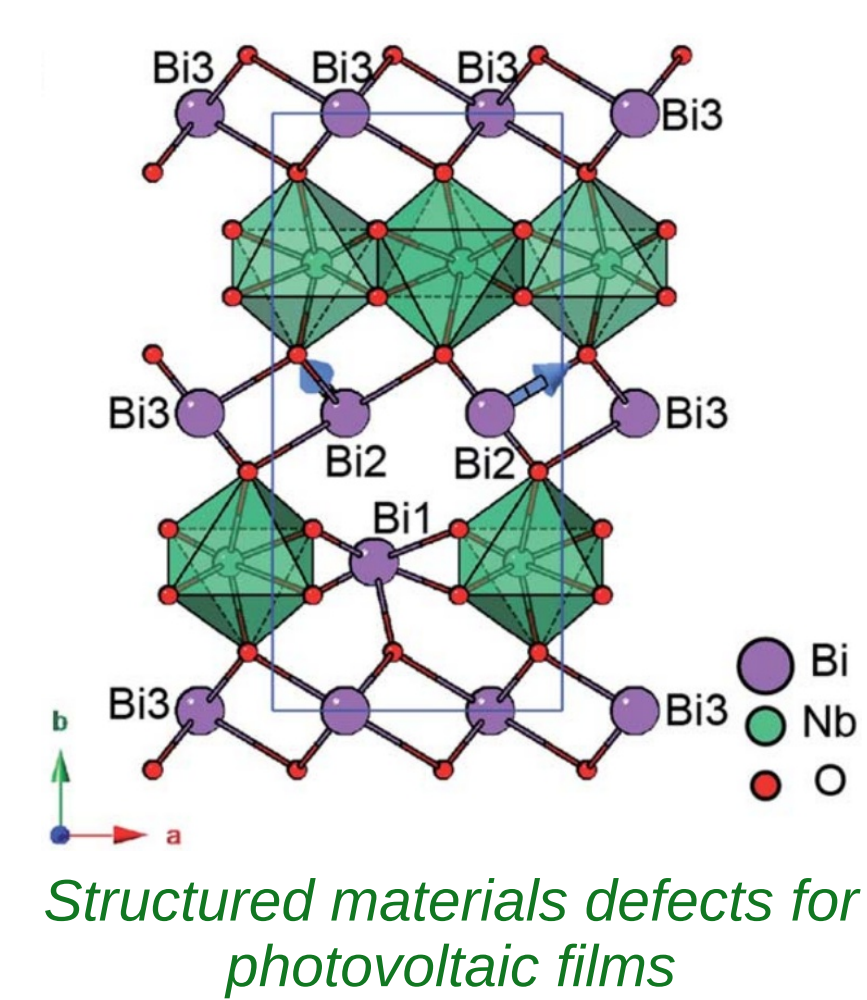
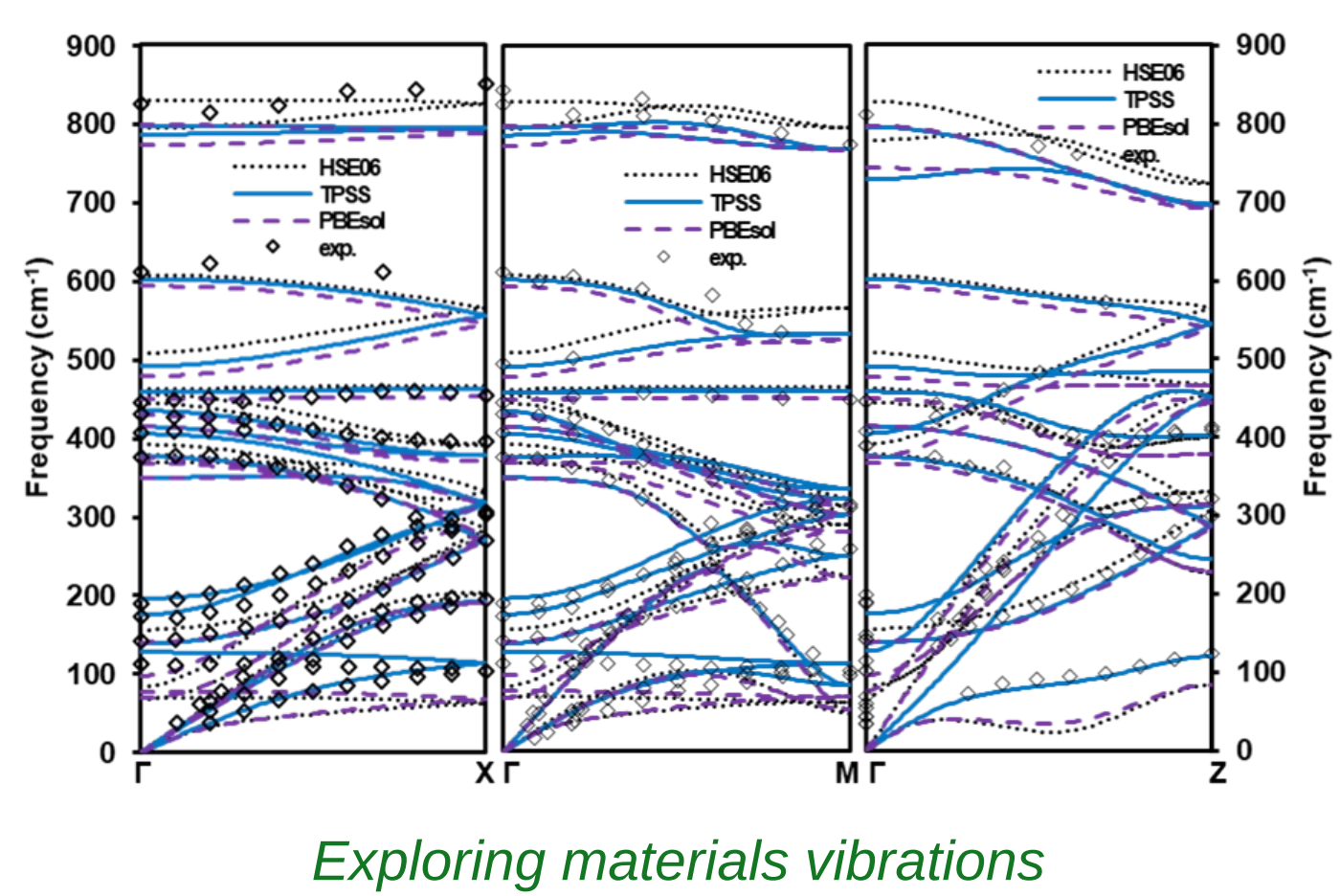
## Multiscale applications

- Hydrogen storage
- Gas-surface reactions
- Fragmentation methods
- Interstellar chemistry
- Ion thruster chemistry
- Host-guest systems



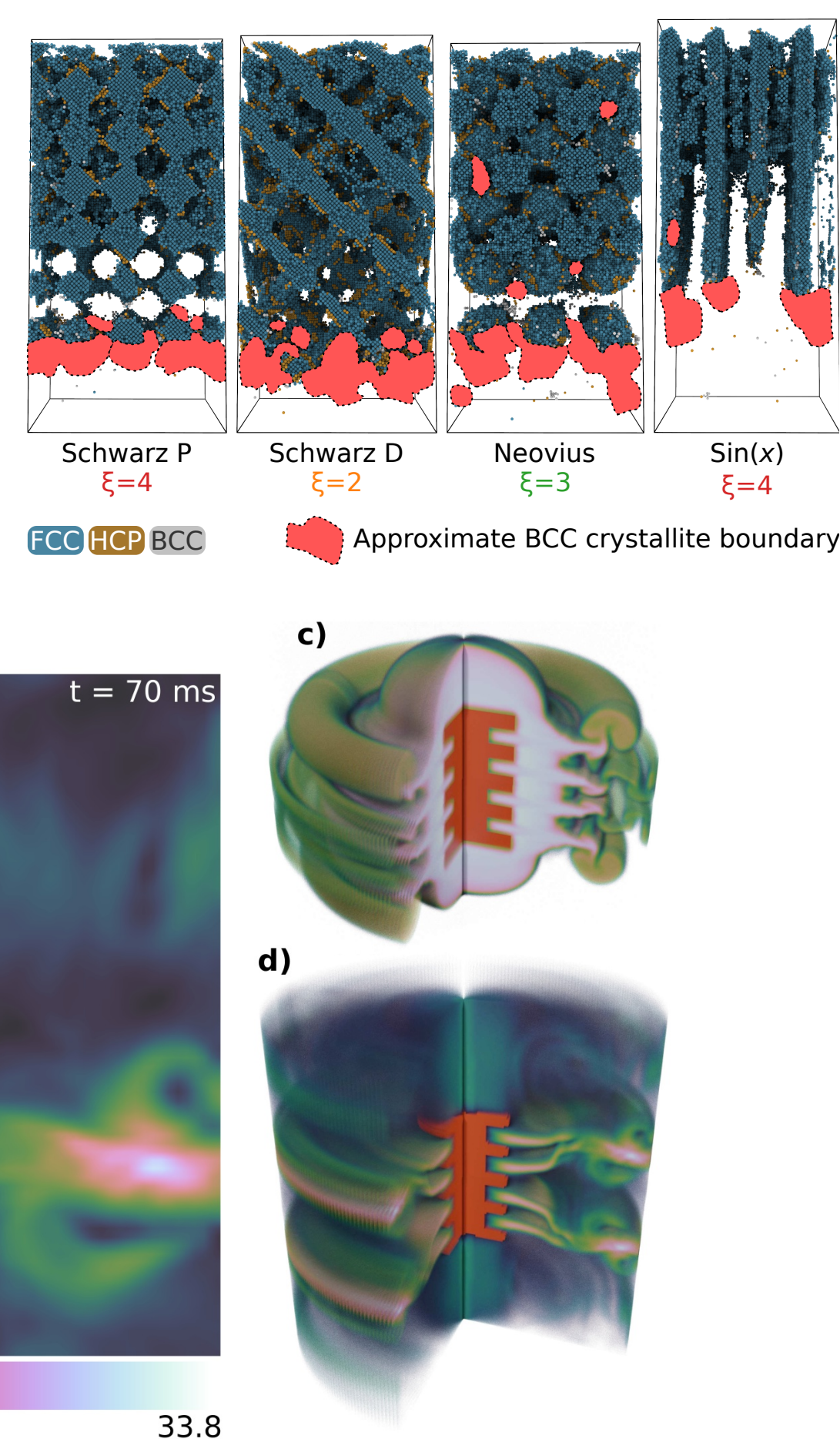
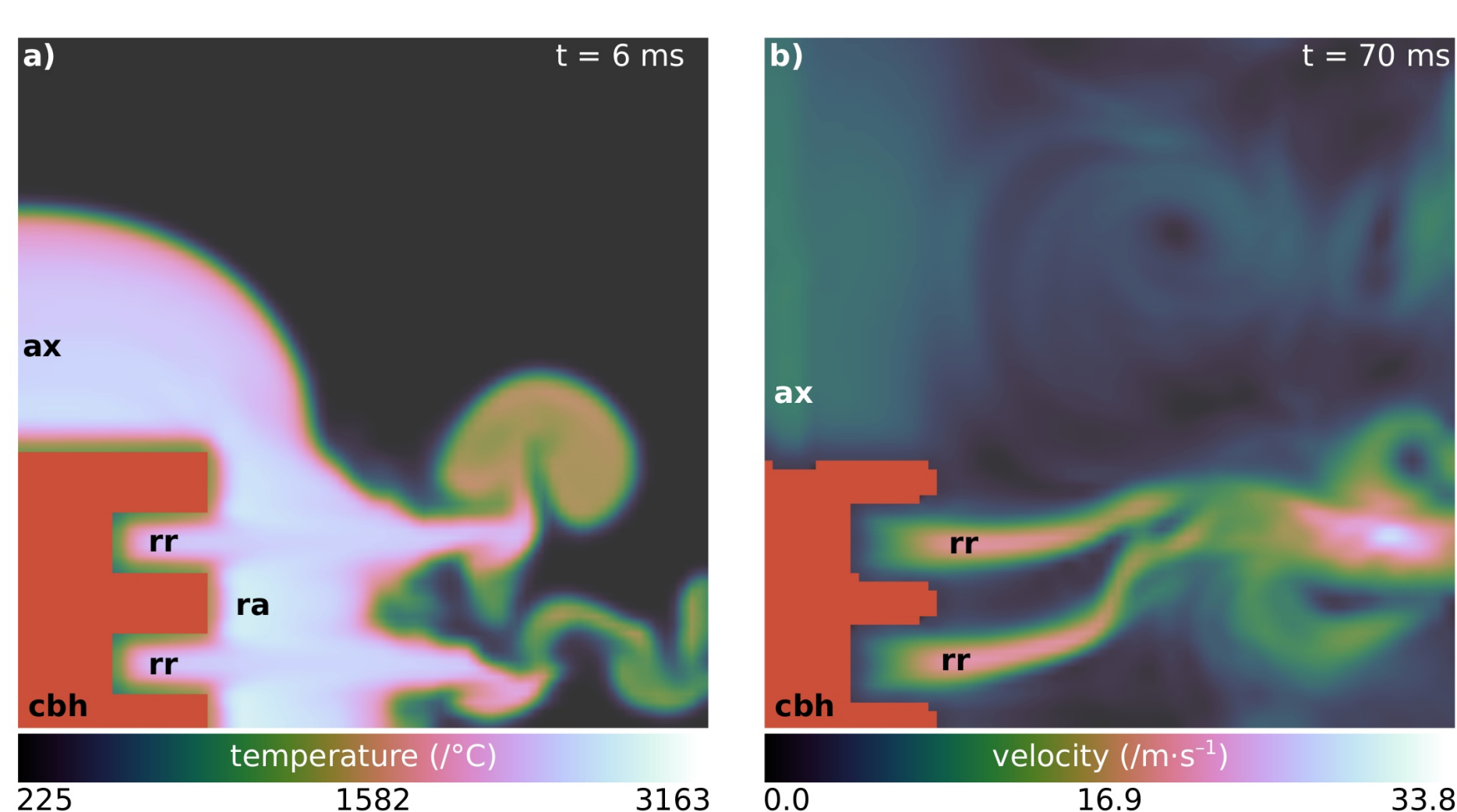
## DFT modelling

- Dielectric properties
- Ferroelectrics/multiferroics
- Photocatalysis



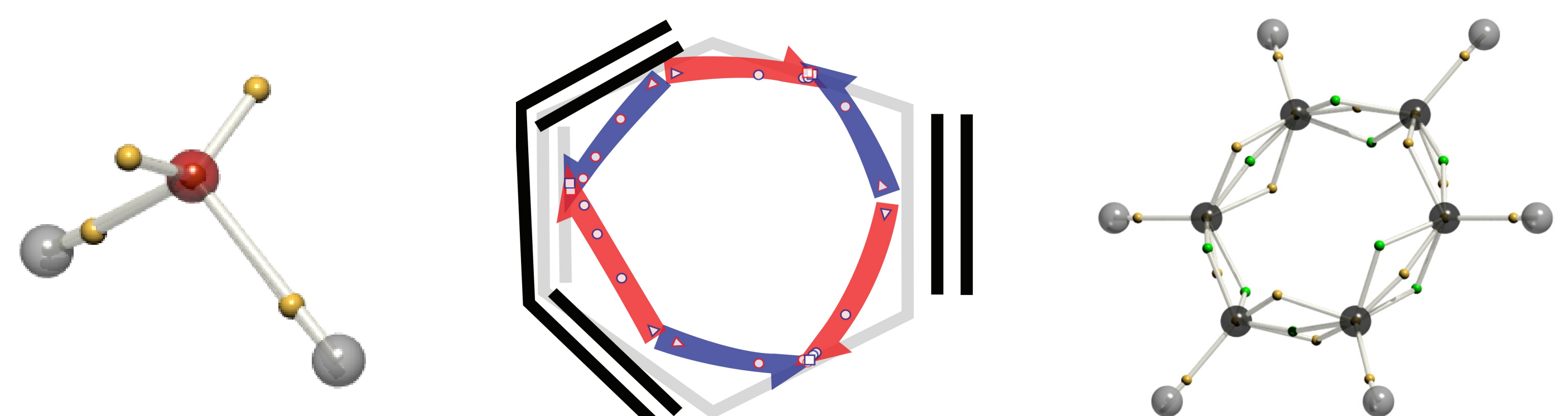
## Energetic materials

- Reactive materials
- Effect of shape on combustion
- Rocketry



## Fundamental theory

- Dynamic Voronoi Metropolis Sampling: What are multielectron wavefunctions actually telling us?



## Funding

- ARC Discovery Projects
- ARC Linkage Project
- Department of Defence