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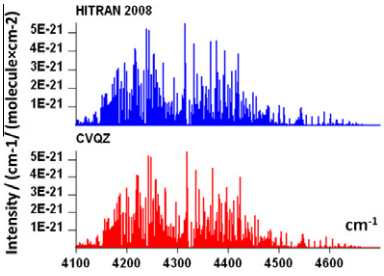
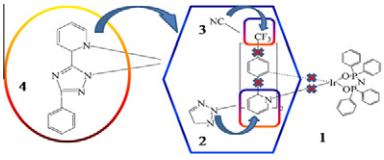
EDITOR'S CHOICE

GASEOUS MOLECULES





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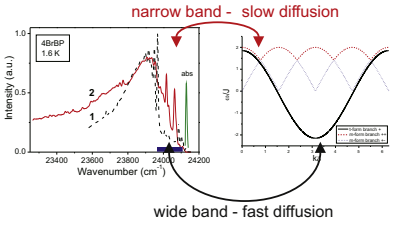
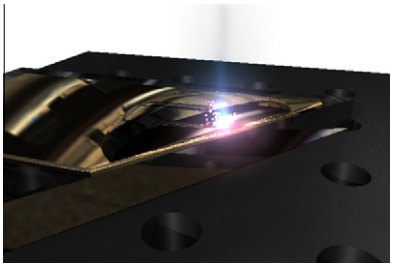
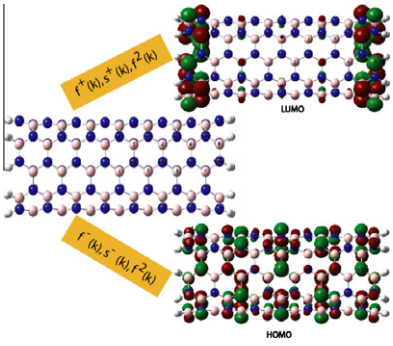
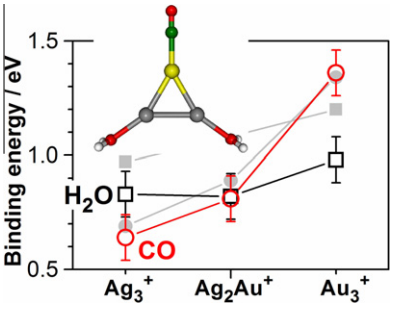


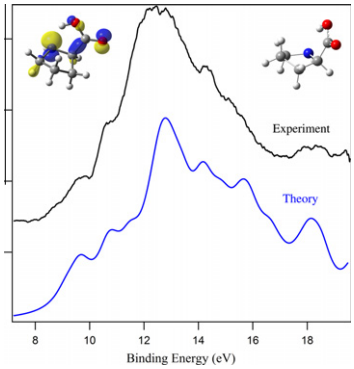
NANOSTRUCTURES AND MATERIALS

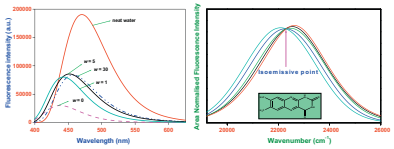


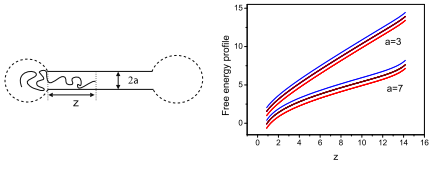




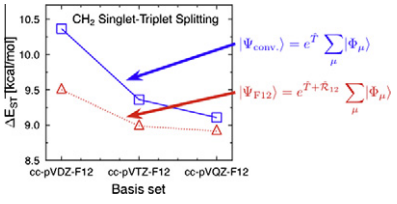
BIOMOLECULES

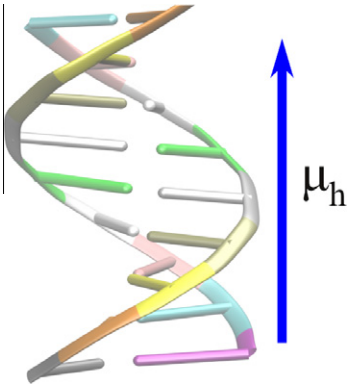


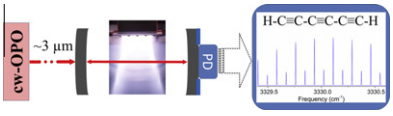


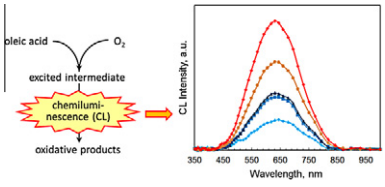


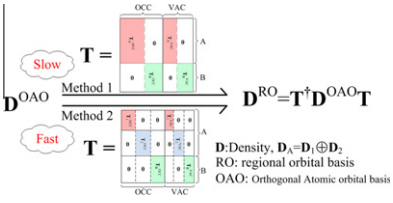
NEW EXPERIMENTAL OR THEORETICAL METHODS











Research highlights ▶ We decompose the ion diffusion into solvent-berg and non-solvent-berg components. ▶ The non-solvent-berg component has 2 distinct regimes. ▶ For many cations the non-solvent-berg component is proportional to 1st shell residence time. ▶ The 1st shell residence time serves as a proxy for an ion's structure building ability.