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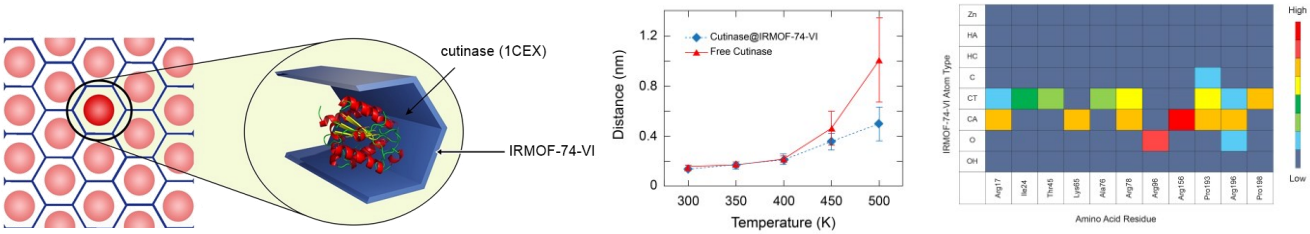
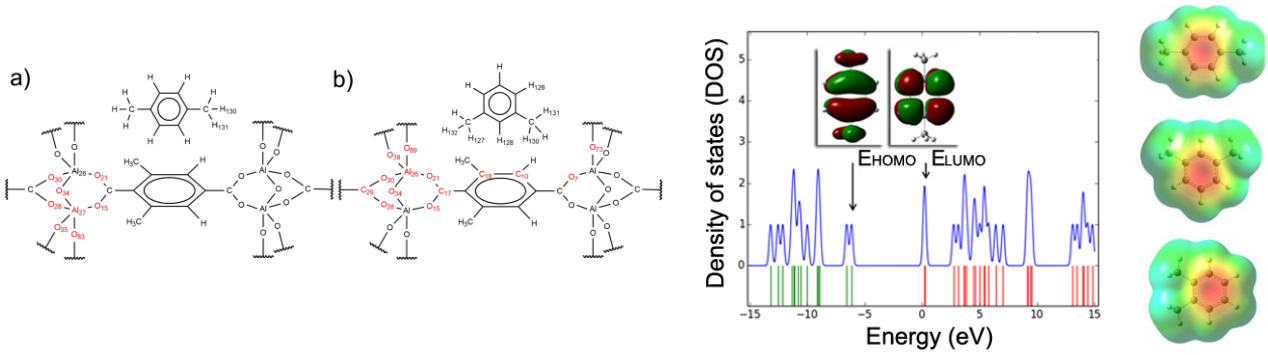
RESEARCH HIGHLIGHTS

1. Advanced Biomaterial Design

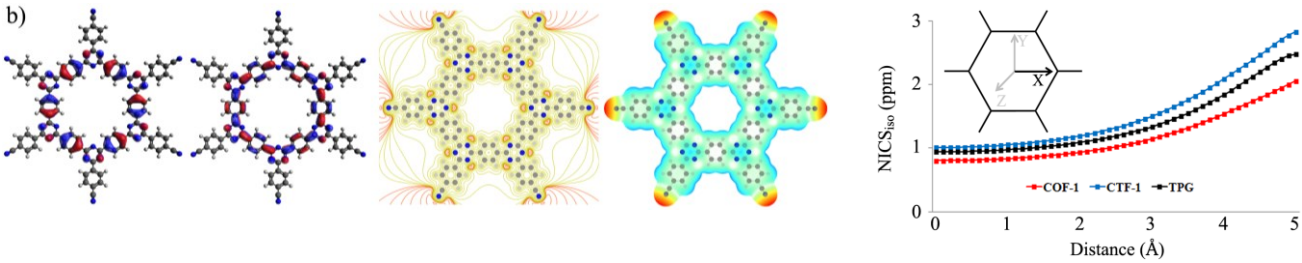


Tuan Kob T.N.A., Ismail M.F., Abdul Rahman M.B., Cordova K.E., Latif M.A.M. "Unraveling the Structural Dynamics of an Enzyme Encapsulated within a Metal-Organic Framework," *J. Phys. Chem. B*, 2020, 124(18), 3678-3685.

2. Porous Materials Characterization



Borzehandani M.Y., Abdulmalek E., Abdul Rahman M.B., Latif M.A.M. "First-principles investigation of dimethyl-functionalized MIL-53 (Al) metal–organic framework for adsorption and separation of xylene isomers," *J. Porous. Mater.*, 2021, 28, 579-591.



Borzehandani M.Y., Abdulmalek E., Abdul Rahman M.B., Latif M.A.M. "Elucidating the Aromatic Properties of Covalent Organic Frameworks Surface for Enhanced Polar Solvent Adsorption," *Polymers*, 2021, 13(11), 1861.