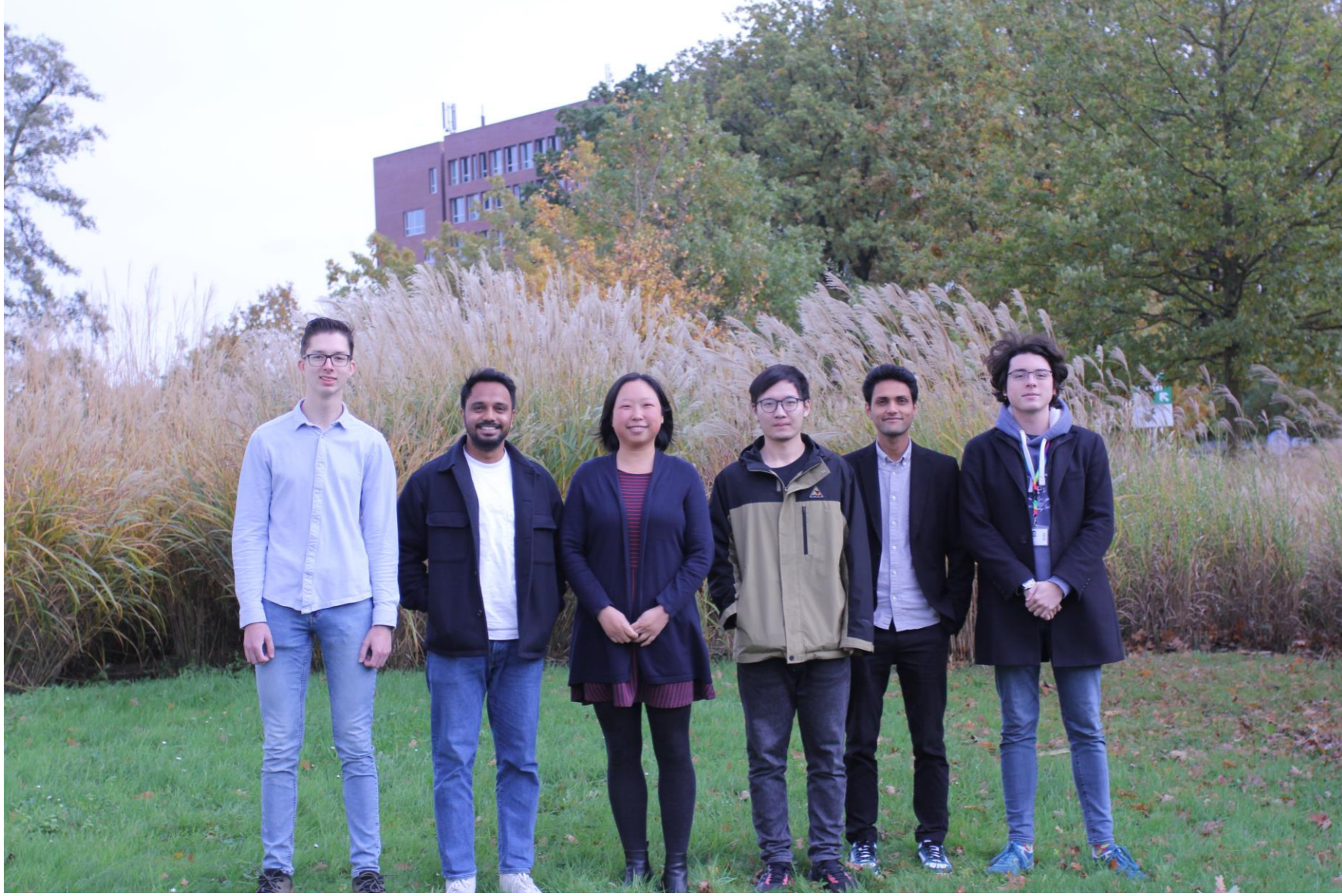


Noble-metal-free transition metal carbide catalyst for sustainable feedstocks conversion to chemicals

Computational Chemistry & Catalysis | Wageningen University
 Guanna Li | guanna.li@wur.nl

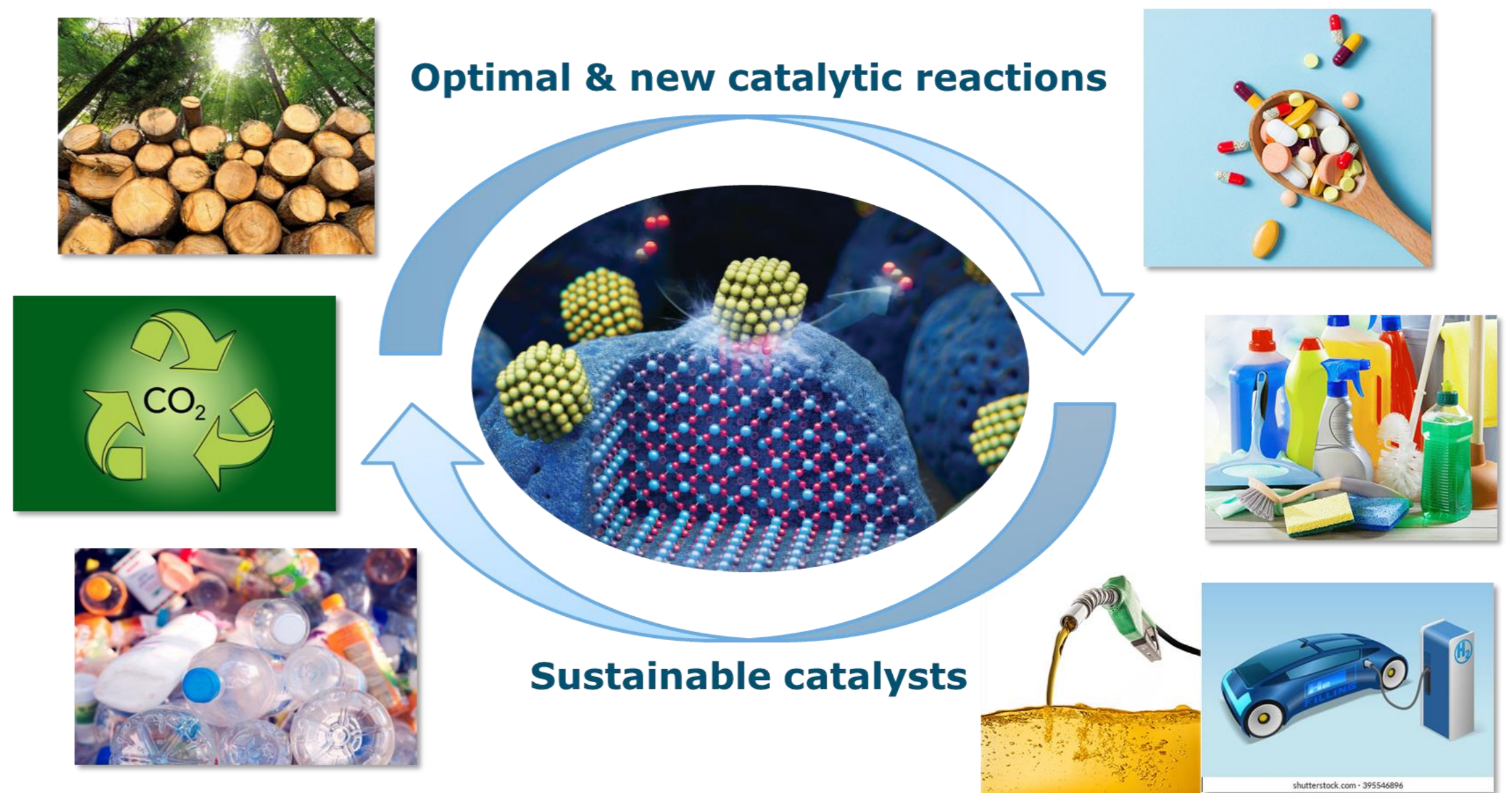
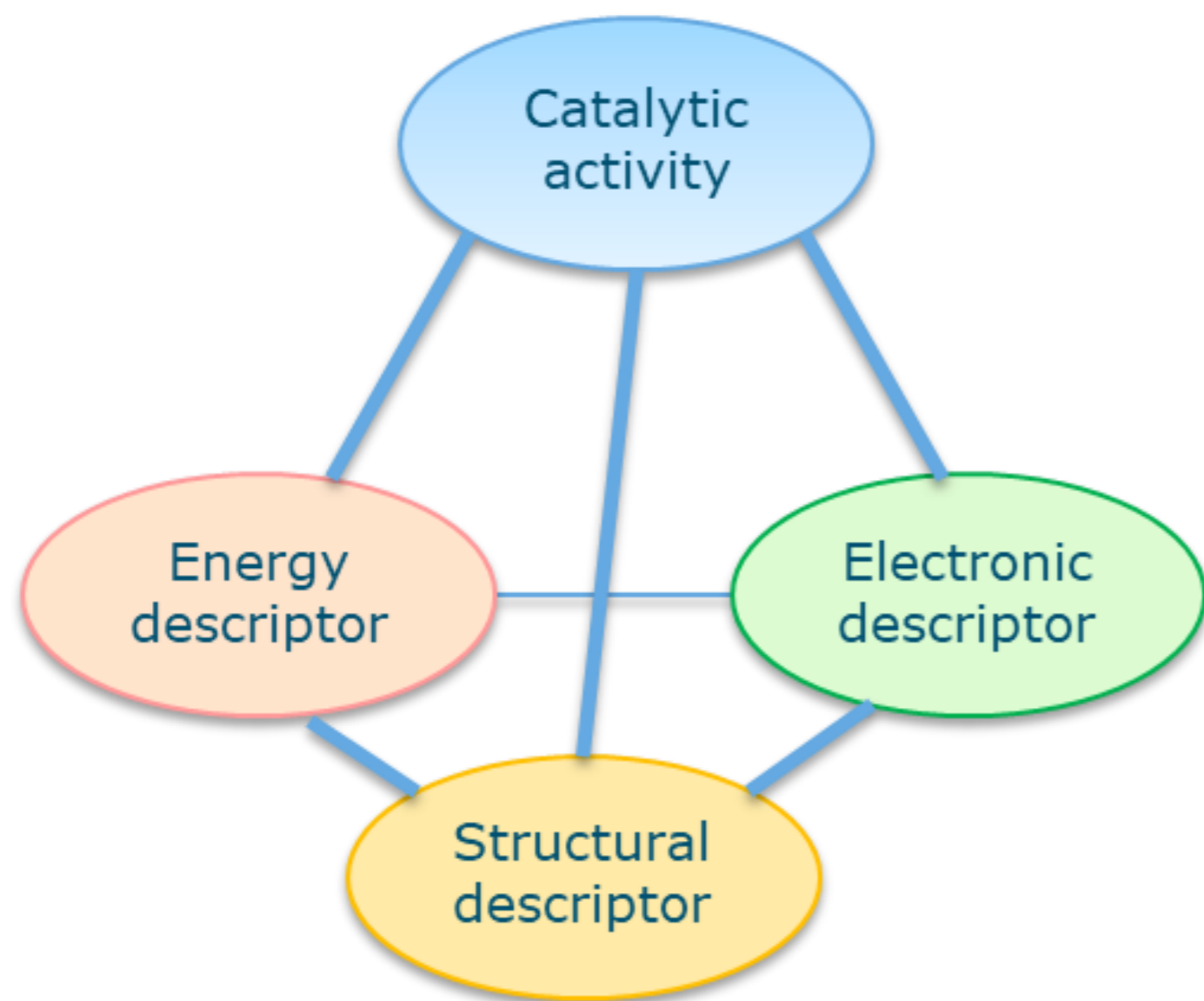
- Research team



Our team specializes in computational surface and interface engineering by employing state-of-the-art multiscale modeling approaches. Our primary objectives are to elucidate atomistic-level information regarding geometries, electronic structures, and properties of dynamic catalytic processes occurring at gas-solid and liquid-solid interfaces.

Our focus is on establishing bottom-up structure-property-performance relationships of non-noble metal catalysts using a high-throughput hybrid computational framework. Through this, we aim to develop catalyst design principles for sustainable biomass conversion, CO₂ utilization, and plastic waste upcycling.

- Research focus



- Research methods

