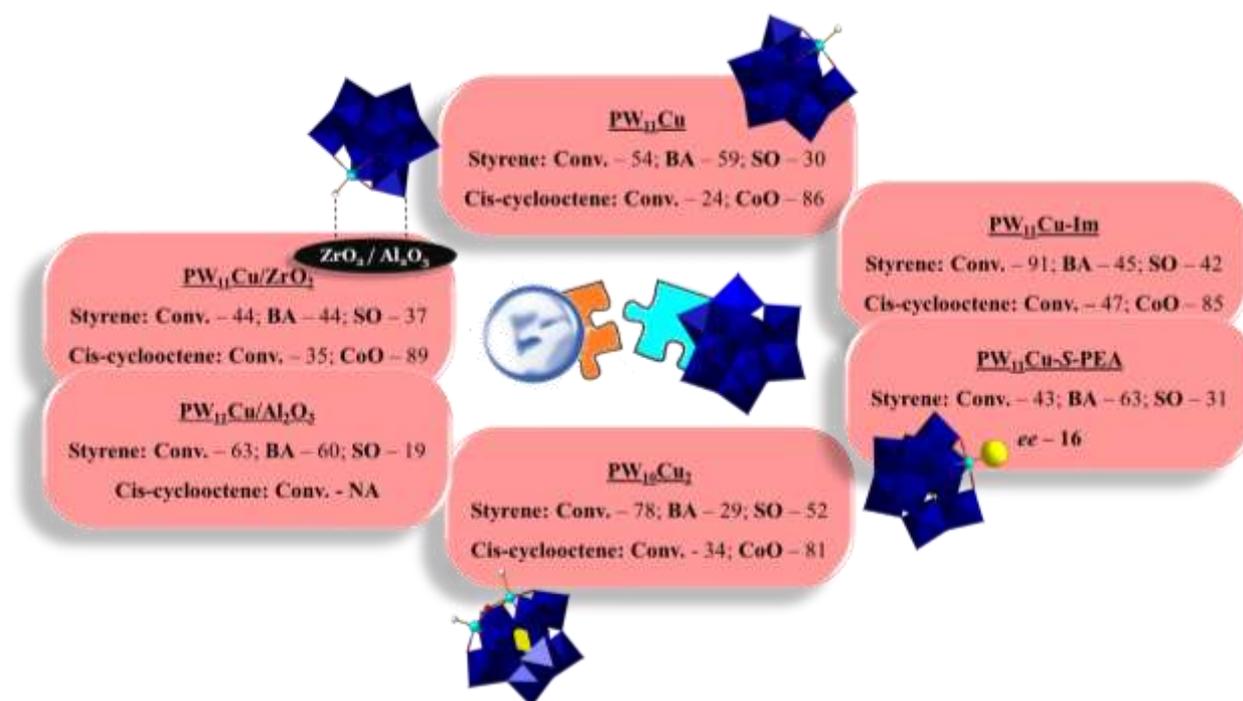


Main Conclusions



- Successful designing of catalytic materials based on copper substituted phosphotungstates and modifications via supporting as well as functionalization
- Due to presence of Lewis acid sites, alumina supported $PW_{11}Cu$ gave higher conversion of styrene and selectivity for benzaldehyde but was unsuccessful in oxidizing cis-cyclooctene. This signifies that the role of support is indeed very substantial.
- Functionalization is the best technique to enhance the catalytic activity of $PW_{11}Cu$ for oxidation reactions.