

Main Conclusion

- We have successfully *synthesized and characterized* the two series of catalysts comprising parent (SiW_{12}) as well as monolacunary silicotungstates (SiW_{11}) and two different supports, *MCM-41* and *zeolite H β* . The catalytic activities of the synthesized catalysts were tested for *biodiesel synthesis* as well as *valorisation of glycerol*.
- For all the reactions, parent silicotungstate (SiW_{12}) was found to be *better active species* among the two active species.
- *Zeolite H β* comes out to be a *better support* among the two supports.