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Catalysis in complex media

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Stellingen

Behorende bij het proefschrift

Catalysis in complex media

Analytical approaches and mechanisms in manganese catalysed oxidations

Shaghayegh Abdolazadeh

1. Drop coating deposition Raman (DCDR) spectroscopy can be applied to monitor chemical reactions as reliably as conventional methods such as GC, NMR and MS. It only lacks familiarity.
2. CO₂ from air is free but not always appreciated in speciation analysis.
3. Models are essential to simplify complex reactions. However, even the simplest model compound can misbehave and become complicated.
4. The use of a phase transfer catalyst in the multiphase reactions (*i.e.* organic/aqueous) is not necessarily an improvement if the end result is that the catalyst ends up in the water phase.
5. It is true that bicarbonate is useful in the epoxidation of alkenes, but one has to be aware of the impurities present! Traces of metal salts in bicarbonate are not innocent in the chemical reactions observed.
6. The complexity faced in designing catalysts for bulk applications where various parameters show contradictory effects, necessitates that a catalytic system should be considered even in a single step process.
7. The only way to succeed is to “figure it out for yourself!” It takes 4 years to figure out how to “figure it out for oneself”.