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Chen, Juan

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Stellingen

Behorende bij het proefschrift

Mechanisms in Non-Heme Iron Oxidation Catalysis

Juan Chen

- 1. Photochemistry may not be magic, but irradiation can be a magic tool if your thermal reactions do not work. It can lead to something exciting! (Chapter 2)
- 2. Just because a reactive species can do something, it doesn't mean that the species in question is actually responsible for the thing being done! (c.f. FeIV=O and H_2O_2 , Chapter 6)
- 3. Radical-based chemistry does not necessarily lead to a complicated mixture of products; even a single product can be complex, though. (N4Py vs. MeN4Py in Chapter 4)
- 4. We like it when things work, but there is no point in feeling down when things do not work; frustration and setbacks are what we learn most from. (Chapter 6)
- 5. A multi-catalyst strategy involving several active species in a single reaction mixture is ambitious and challenging; using a single catalyst to do the same job can be more effective. (Chapter 3)
- 6. Photochemical reactivity is uncommon and hence photochemistry is often viewed as being clean since only one compound undergoes excitation; it is worth keeping in mind, though, that even if only a single reaction is observed there could be more than one species present that is photo-active. (Chapter 3)
- 7. The validity of a mechanism is time-dependent! (Chapter 5 and Chapter 6)
- 8. Comfort comes from unlikely sources: "Rejection is not the end of the world; there is also chocolate and a resubmission".

-----by Prof. Wesley R. Browne

- 9. Publications are like busses, you wait three and half years for one, and then three come along in a row.
- 10. The concept of an introductory essay is misguiding, the best time to write a review of the field of your PhD project is neither at the start nor at the end, but in the middle of your PhD.