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## Selective catalytic oxidations by palladium and manganese

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# Stellingen

Behorende bij het proefschrift

Selective Catalytic Oxidations by Palladium and Manganese

Selectivity, Reactivity and Mechanistic Studies

Jia Jia Dong

1. Butanedione forms naturally during the fermentation of certain foods and is used as a food additive to give a buttery flavour. Excessive inhalation can cause lung damage however, although this means that it should be forbidden in electronic cigarettes, it is not a justification to reject a scientific publication.  
*Nicotine Tob. Res.* **2014**, doi: 10.1093/ntr/ntu176 and chapters 6
2. Original spectra should be required in publications not only for characterizing new compounds but also for mechanistic studies.(Chapter 4)  
*Science* **2011**, 333, 1609-1612.
3. The application of known catalytic systems more broadly should be encouraged in research instead of only focusing on developing ever more new methods (chapters 5 and 6).
4. Writing a communication does not mean that it is justified to rush its publication--- Isolated yields should be given instead of only GC yields without calibration.  
*Chem. Commun.* **2011**, 47, 4273-4275.
5. Air is the best source of terminal oxidant for oxidation chemistry in view of environmental impact and economic cost. However, the proper set-up for using such an oxidant for safe use in a research laboratory has not been developed in a cheap and practical way (Chapter X).  
*Green Chem.*, **2013**, 15, 3230-3235.
6. Excessive inhalation or contact with any compound may cause harm, thus safety rules in any lab or factory are more than necessary.
7. Being a good researcher requires different skills in comparison with those needed to be a good student for an exam.
8. Working 8 hours per day and focusing on research in that time is more efficient than being present in a lab for 16 hours with continuous distraction.
9. A sudden glimpse of hope may show up in the dark mist of bewilderment.  
山重水复疑无路, 柳暗花明又一村。 --- 《游山西村》陆游 Lu You (chapter 2)
10. Complaining can be a useful way to improve the world – you should write a letter.