

## University of Groningen

### Photochromic molecular switches

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## Stellingen

behorend bij het proefschrift

### Photochromic Molecular Switches

door

Jort Robertus

1. The observation by scanning electron microscope of structures of a spherical morphology in freeze-dried samples, does not necessarily mean that such morphologies are manifested in aggregates where water is an integral part of the structure.  
*Y. Zou, T. Yi, S. Xiao, F. Li, C. Li, X. Gao, J. Wu, M. Yu and C. Huang, J. Am. Chem. Soc., 2008, 130, 15750.*
2. Running a flash chromatography column at flow rates below 5.1 cm/min is a waste of time, as such flow rates are central to successful separations.  
*W. C. Still, M. Kahn and A. Mitra, J. Org. Chem., 1978, 43, 2923.*
3. For the deployment of photochromic molecular switches in devices, the properties of such switches should correspond to the intended objective of the application of the device.
4. In the reversible photoswitchable cell adhesion of cells on self-assembled monolayers bearing bound arginine-glycine-aspartic acid (RGD) peptides, cell release is achieved only by adding solubilized RGD peptides. However, this study will remain to be viewed as the first example of reversible photoswitchable cell adhesion on SAMs, regardless of the fact that cell release is triggered by a second trigger.  
*Using Azobenzene-Embedded Self-Assembled Monolayers To Photochemically Control Cell Adhesion Reversibly, D. Liu, Y. Xie, H. Shao and X. Jiang, Angew. Chem., Int. Ed., 2009, 48, 4406.*
5. Route setting is about leaving the beaten path and doing the unexpected or realizing the ingenuity of the unintended, therefore a route setter should never stop developing their repertoire of methods.
6. Thioketones often are reactive species, however, this does not necessarily mean that water should be avoided at all cost during their work up.  
*J. Bergman, B. Pettersson, V. Hasimbegovic, and P. H. Svensson J. Org. Chem. 2011, 76, 1546.*
7. We are living in times where resources should be used responsibly, therefore we should reconsider the printing of theses, or the discarding of synthetic products at the end of a practical course.
8. Even though the economic model for open-access publishing is not clear yet, the debate of open accesses and the resulting maneuvering of publishers has led to a greater freedom for researchers to choose how to share their results.
9. Although the participation in sport activities can result in injury, the potential benefits such as perceived happiness, creativity, general health and stress relieve, outweigh the danger of injury.
10. "The news" ought to report factual information that is placed in a broader context, using informed opinions, while remaining neutral. It should refrain from speculation, and innuendo.
11. In bouldering the lack of a rope is a reassurance.