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Donor-Acceptor Stenhouse Adducts

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2018

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Lerch, M. M. (2018). Donor-Acceptor Stenhouse Adducts. [Groningen]: Rijksuniversiteit Groningen.

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Donor–Acceptor Stenhouse Adducts

Door
Michael M. Lerch

1. Orthogonal photoswitching describes the use of different wavelengths of light for switching two or more photoswitches in a solution independently of each other and irrespective of the order of irradiation.
2. Red-shifting the absorption maxima of photoswitches and photo-removable protecting groups into the “near-infrared phototherapeutic window” (650–900 nm) calls for practical and reliable chemical actinometers in this region to determine photochemical quantum yields.
3. There is no such thing as a “roadmap to success” in photopharmacology. Photopharmacology is less predictable than many would like to admit.
Acc. Chem. Res., **2015**, 48 (7), 1947–1960
4. Free hydroxy groups on the donor moiety of DASAs are non-innocent as described by Klajn and co-workers. The observed cyclization in the dark is, however, unlikely to be facilitated only for steric reasons by a small methyl group. The electrocyclization is likely not to be influenced by a change from a longer alkyl chain to a methyl group.
ChemPhotoChem, **2017**, 1 (5), 230–236
5. Scientific hero worship is unhelpful for both aspiring scientists and the general public, as it overemphasizes personal contributions and falsely claims that there is an objective scientific truth that is only accessible to a selected few.
6. Studying and thinking about philosophy and history of science prompts us to reflect on the process of discovery and innovation.
7. Many vilify prolific writing of papers as a bad by-product of the current economization of science, but they forget how powerful writing can be in the scientific thought process.
8. Organic chemists often underestimate the importance of polarity of the compounds they devise.
9. Journalists should not be the gatekeepers of science communication. Scientists are more than a curious species in lab coats, and it is our imperative to communicate with society and actively participate in it.
10. Universities should not be run like companies.
11. The humanities are as important as the physical sciences and both should have an equal place in modern society. Their contribution to society cannot and should not be measured.
12. Having an opinion about everything is not something desirable.