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Stellingen

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Synthetic strategies for modifying dielectric properties and the electron mobility of fullerene derivatives

Fatemeh Jahani Bahnamiri

1. Modifying the dielectric constant of organic materials is more challenging than was anticipated. (this thesis)
2. Sometimes your research may not lead to improve the specific property that is desired but it may end up improving other properties of the material.
3. Collaboration of experimental and theoretical chemists can help to better understand the properties of the synthesized materials.
4. Adding small and flexible polar groups to fullerene derivatives is more effective than adding strong permanent dipoles for increasing the dielectric constant of the thin film made of them. (this thesis)
5. Variation of the length of ethylene glycol methyl ether side chains does not affect the dielectric constant of fullerene derivatives significantly. (this thesis)
6. Incorporation of high dielectric constant side chains seems to be a promising strategy for dielectric constant enhancement but it needs to be verified. (this thesis)
7. Having reliable feedback is essential key for design and synthesis of new compounds with a desired property. (this thesis)
8. Sometimes spectacular results can turn to unimpressive results, but still much can be learned. (this thesis)