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## The power of polymer wrapping

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# Stellingen

Behorende bij het proefschrift

## **The power of polymer wrapping: Selection of semiconducting carbon nanotubes, interaction mechanism, and optoelectronic devices**

Door Jorge Mario Salazar Rios

June 22<sup>nd</sup>, 2018

1. The flexibility of the conjugated polymer backbone directly affects the dispersion yield of small diameter s-SWNTs in toluene. (Chapter 2)
2. Hole transport in network s-SWNT FETs is not affected by the presence of an excess polymer if the valence band of the conjugated polymer is aligned with the first electronic transition ( $S_{11}$ ) of the semiconducting tubes. (Chapter 3)
3. Mixing specific additives with highly purified s-SWNT inks offers an easy and efficient way to control the polarity of network s-SWNT FETs. (Chapter 4)
4. The incorporation of an s-SWNT interlayer greatly improves the stability of PbS QD solar cells exposed to light in ambient conditions. (Chapter 5)
5. The implementation of s-SWNT inks in flexible electronics can benefit the expansion of this growing market. (Chapter 6)
6. Whether we like it or not, politics is for science as important as the generation of knowledge.
7. If you succeed communicating thoughts in a clear and kind way, your personal and professional projects will benefit from it.
8. In any given situation, a strength can be found behind a weakness. Find that strength and learn how to use it.
9. Be kind whenever possible. It is always possible.

-Dalai Lama

10. Los medios justifican el fin (The means justify the end)

-Sergio Fajardo