

Organic Materials for Energy and Optoelectronics

# Materials synthesis and processing

Andriy Zhugayevych, Keith Stevenson

*Feb 9, 2022*

# Reading

## *Synthesis of electroactive materials*

- A Pron *etal*, Electroactive materials for organic electronics: preparation strategies, structural aspects ..., Chem Soc Rev 39, 2577 (2010)

## *Synthesis of OFET polymers*

- L Shi *etal*, Design and effective synthesis methods for high-performance polymer semiconductors in OFET, Mater Chem Front 1, 2423 (2017)

## *Sustainable (eco-friendly) synthesis*

- S Phan, C Luscombe, Recent Advances in the Green, Sustainable Synthesis of Semiconducting Polymers, Trends in Chemistry 1, 670 (2019)
- **or** A Marrocchi *etal*, Key trends in sustainable approaches to the synthesis of semiconducting polymers, in Handbook of Organic Materials 43 (2019)
- **bg** M Irimia-Vladu, "Green" electronics..., Chem Soc Rev 43, 588 (2014)

## *Processing*

- Forrest Chapter 5 Materials purity, growth, and patterning