

Organic semiconductors: A history, background, and emerging applications

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Abstract

Organic semiconductors have had a vibrant history and have enabled the highest quality display technologies that we use today. Their low-cost manufacturing paradigms which are compatible with Industry 4.0, as well as introducing flexible form factors into the electronics world has put them at the forefront of contenders to enable emerging applications, wearable and biomedical technologies and the wider Internet-of-Things (IoT). This talk will introduce organic semiconductors, their merits and their history. A highlight of the current state-of-the-art, current markets and applications will also be visited, as well as a look beyond the horizon onto what they will be bringing in the future.



Biography:

Iyad is an Emerging Technologies professional who obtained his PhD from the University of Cambridge. He has worked in the field of Organic Electronics where he has published his studies in high ranking journals and is a patent holder. Iyad has most recently worked in the commercialisation of organic technologies into emerging consumer electronics.

Speaker Publications:

1. Nasrallah, I., Ravva, M. K., Broch, K., Novak, J., Armitage, J., Schweicher, G., Sadhanala, A., Anthony, J. E., Bredas, J.-L., Sirringhaus, H., A Novel Mitigation Mechanism for Photo-Induced Trapping in an Anthradithiophene Derivative Using Additives. *Adv. Electron. Mater.* 2020, 6, 2000250. <https://doi.org/10.1002/aelm.202000250>.

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