



From low voltage operation of flexible transistors to highly selective cannabinoid sensors: interfacial engineering is key

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Virtual Presentation

Carbon based electronics, also known as organic electronics are facilitating the development of emerging technologies due to their inherent bendability and potential for low cost manufacturing compared to brittle conventional silicon semiconductors. Furthermore, the chemical toolbox available to us enables the fine-tuning of the materials as a way to design and engineer the desired properties. This seminar will focus on our groups recent advances in the development of high performing organic thin film transistors through the self-assembly of well-defined block copolymers as well as the application of these devices as a platform for developing low cost point-of-source sensors such as our recent work on cannabinoid detection and speciation. We aim to build structure property relationships between material selection, thin film processing and device performance.