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16:15 Uhr

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Organic Electronics

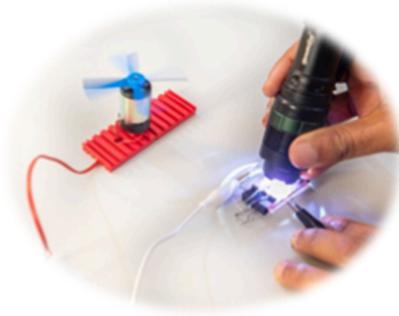
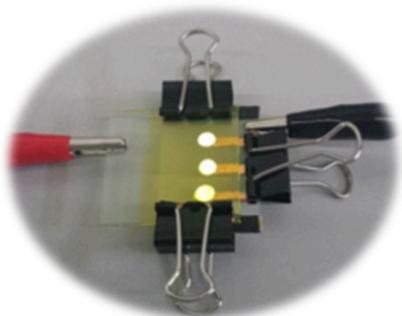
From the Research Lab into the Classroom

-PROF. DR. AMITABH BANERJI

To prepare students for a life in an increasingly technology dominated world and to **motivate them for STEM** (science, technology, engineering, mathematics) it is **crucial to implement cutting-edge research** and future technologies into the science curriculum of schools and universities. Our group has a long-lasting expertise in introducing recent scientific developments, i.e. semiconductors based on organic and perovskite materials into the curricula of German schools and universities, following the principles of Curriculum Innovation.

Organic semiconductors are a **new class of materials** representing an innovative field of scientific research. Efficient illuminants, such as organic light emitting diodes (OLEDs) can be found in ultra-thin and super-bright displays of modern high-tech applications. Organic Photovoltaic cells (OPV) can be produced as light weight, super-thin, flexible and semi-transparent films, which can be embedded into the windows and facades of modern buildings.

In my talk, I will **discuss the theoretical basics of organic electronics** and I will **demonstrate the low-cost fabrication of a DIY-OLED and a DIY-OPV-cell** in a live demo.



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