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The quantum dot spectrometer-Exploiting the limitless number of colors of QDs

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Speaking of quantum dots, the first thing that comes to mind is probably their most distinctive and characteristic property-that their band gaps, thus colors, can be continuously and finely tuned over a wide range. This property gives rise to a large pool of countless number of materials, which all share very similar natures and properties. In this speech, I will talk about how such a unique property is being exploited by the invention of the quantum dot spectrometer, and how we envision a ubiquitous sensing toolbox emerging out from a nano dot.

Biography

Jie Bao is an Associate Professor in the Electronic Engineering Department of Tsinghua University. Before joining Tsinghua, he graduated with a PhD degree from Brown University and carried out his Post-doc research at MIT. He is a member of the National 1000 Plan Professorship Program in China, and was awarded with '10 Emerging Star Scientists in China' in 2015.

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