Special Issue

Advances in Electrowetting Devices

Message from the Guest Editors

Electrowetting has emerged as a new technique with many applications, such as micro-drop generation, manipulation and actuation, sensor, clinical diagnosis, e-paper and electronic display, energy harvesting, beam steering, liquid lenses, and many more. Despite the wide range of application opportunities, the commercialisation of electrowetting still faces several challenges, such as charge trapping, oil backflow, contact line instability, dielectric breakdown, reliability in repetitive loading, etc. This Special Issue aims to inform researchers on the recent advancement of the application of electrowetting techniques, fundamental explanation of related phenomena, development of new material and/or process, and solution to the challenges of the commercialisation of electrowetting devices. This Special Issue is also interested in showcasing a new and novel field of electrowetting application. The Special Issue will accept diverse forms of contributions, including research papers, communications, methods, and review articles representing the state-of-the-art in electrowetting.

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