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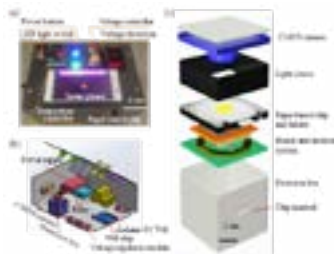


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Recent investigations on microfluidics and nanofluidics using electrokinetics

In this presentation, I will introduce our recent results: (1) utilizing fluidic technology with electrokinetic effects to detect bio-samples and (2) preconcentrations by electrokinetic transport in nanospaces. Examples are using paper-based analytical devices (μ PADs) to detect Albumin, Creatinine, Glucose, Aspartate Aminotransferase (AST) and Alanine Aminotransferase (ALT) from human blood. The integrated system to perform these tests will be introduced in a portable platform.



Biography

Ruey Jen Yang is a Chair Professor of Engineering Science at National Cheng Kung University (NCKU) in Taiwan. He received his PhD degree in Mechanical Engineering from University of California at Berkeley in 1982. From 1982 to 1993, he was affiliated with Rocketdyne in Los Angeles working on the Space Shuttle Main Engine. He has been with the NCKU since 1993 after 11 years' service in USA. His past academic services include Department Chair, Director General of Research and Services Headquarters and University Librarian at NCKU. His research interests include Microfluidics/Nanofluidics, Fluid and Thermal Sciences, Computational Physics, Energy and Nanotechnology. He has published more than 140 papers in archival Journals.

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