

MICRODEVICES: OCEAN OF OPPORTUNITIES FOR INTER-DISCIPLINARY RESEARCH

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13:00~14:30

MICRO/NANO TECHNOLOGY CENTER
BUILDING 12

The concept of miniaturization has potential for applications in process engineering, thermal management, diagnostics, etc. The talk will discuss case studies on the development of microdevices/microfluidic platforms for (i) separation of cells and plasma from blood; (ii) study of kinetics of drug release; (iii) thermal management of energy storage systems and (iv) optimization of enzyme catalyzed reactions. The talk will also throw light on a new paradigm of miniaturization in the offing, which would utilize microdevices for accelerating research in key research areas such as health care and energy security.

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