THE 12th NanoSquare Workshop

November 16 9:00-15:00

Bldg. C1, Conference Hall, Nakamozu Campus
Osaka Prefecture University

9:00 Opening
Minoru ISHII
Executive Director, Vice President (Education and Research)

9:05 Construction of Pinpoint Cell Separation Systems and Their Applications
Chie KOJIMA
Dept. Applied Chemistry

9:20 Pioneering Nanofluidics for New Chemistry, Biology, and Materials Science
Yan XU
Dept. Chemical Engineering

9:35 Spatio-Temporal Remodeling of Cellular Microenvironment Regulates the Directionality of Collective Cell Migration
Masaya HAGIWARA
Organization for Research and Promotion, OPU

9:50 Interfacial Nanocrafting of Molecular Building Blocks into Crystalline Porous Nanosheets
Rie MAKIURA
Dept. Materials Science

10:05 Development of Photonic Crystal High-Q Nanocavity Devices
Yasushi TAKAHASHI
Dept. Physics and Electronics

10:30 Development of Intracellular Delivery System Based on Functional Peptide-Modified Exosomes
Ikuhiko NAKASE
Dept. Biological Science / RILACS

10:45 Development of Thermoelectric Materials Toward Energy Harvesting Applications
Atsuko KOSUGA
Dept. Physical Science

11:00 Gate-Controlled Chemical Reactions at Surfaces of Two-Dimensional Atomic Sheets
Ryo NOUCHI
Dept. Physics and Electronics

11:15 Density Functional Studies on Oxygen Evolution Reactions of a Quadruple-Perovskite Oxide Catalyst
Hidekazu IKENO
Dept. Materials Science

11:30 Pioneering Rapid and Sensitive Detection Method of Bacteria Cells Based on Nano Microspace
Shiho TOKONAMI
Dept. Applied Chemistry / RILACS

11:45 Light-Induced Acceleration System of Various Biochemical Reactions for Interdisciplinary and Industrial Collaborations
Takuya IIDA
Dept. Physical Science / RILACS

13:00 Poster Session

14:20 Concluding Remarks
External Advisory Members

14:45 Closing Address
Takekazu ISHIDA
Former Program Officer

14:50 Closing
Hisao KIKUTA
Program Officer

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