

221st iCeMS Seminar

January 29, 2024
1 pm – 2:30 pm

Kyoto University KUIAS/iCeMS Main Building
2F Seminar Room

Prof Peidong Yang

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Semiconductor Nanowires: from Nanolasers to Photochemical diodes

For centuries, wires played crucial roles: power lines for electricity, optical fibers for data, and cables for bridges. In the past 30 years, nanowires, 1000 times thinner than hair, transformed computing, photonics, energy, and biomedicine. Controlled semiconducting nanowires enable lasers, solar cells, transistors, probes, thermoelectrics, and (bio)photochemical diodes. Essential for photovoltaics and solar-to-fuel conversion, nanowires offer high surface area and tunable bandgap. This talk explores their history, synthesis, photonics, thermoelectrics, and artificial photosynthesis.



More details are available at the iCeMS website:
www.icems.kyoto-u.ac.jp

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Hosted by Kyoto University Institute for Integrated Cell-Material Sciences (iCeMS)

