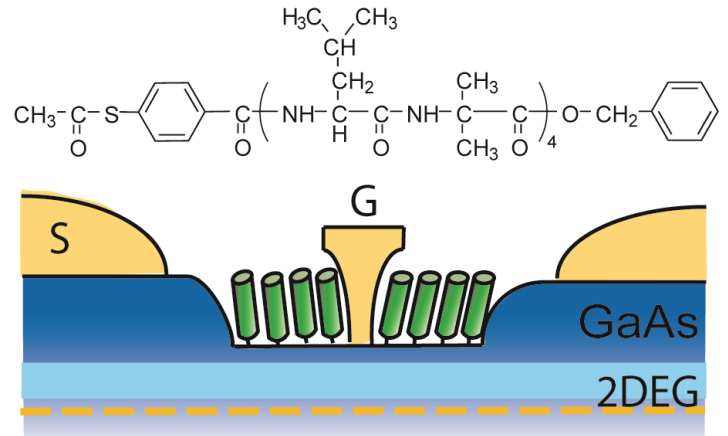
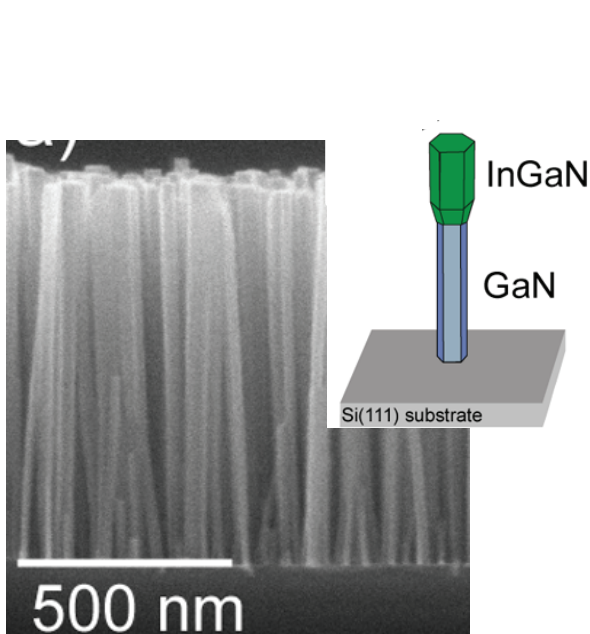
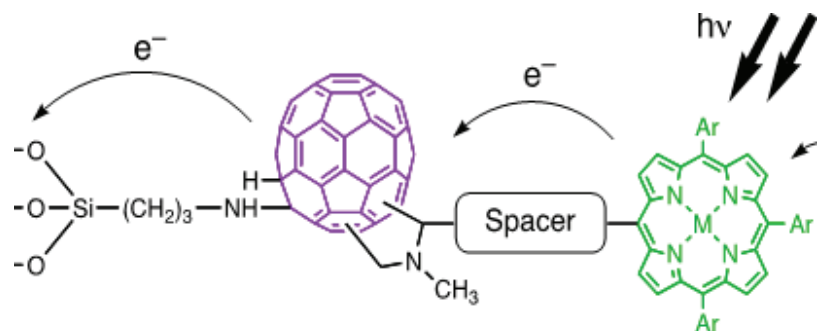
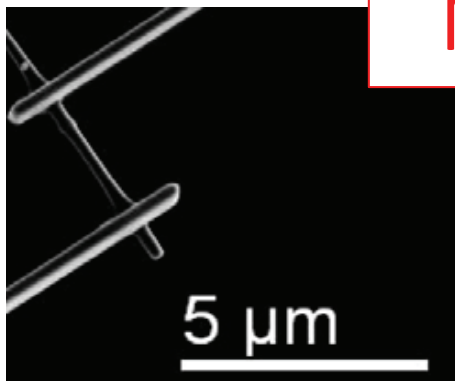
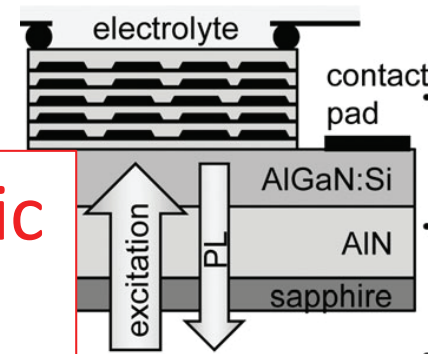


“Creation of Bio-Inspired, Non-Biological Mesoscale Hybrid Materials”

Kick-Off Symposium, SPIRITS Program, Kyoto University
November 18/19, 2014, iCeMS, Kyoto



Bio-Inspired/Mimetic Mesoscale Hybrids



Organizers:

Hiroshi Imahori (Kyoto)

Motomu Tanaka (Heidelberg / Kyoto)

Speakers:

M. Eickhoff (Giessen), S. Kimura (Kyoto), E. Monroy (Grenoble)

D. Prades (Barcelona)

International SPIRITS Symposium

“Creation of Bio-Inspired, Non-Biological Mesoscale Hybrid Materials”

November 18/19, iCeMS Seminar Room, Kyoto, Japan

November 18

9:00 – Welcome / Hiroshi Imahori

9:15 – General Introduction / Motomu Tanaka

Presentations by the Consortium Members

9:30 – 10:15 Motomu Tanaka (Heidelberg / Kyoto)
“Connecting Soft, Biomatter and Solid Based Devices:
Biofunctionalization of III-V Semiconductors”

Break

10:30 – 11:15 Martin Eickhoff (Mannheim)
“The Group III-Nitride Material System - Platform for
Biochemical Sensors and Nanophotonic Probes”

11:15 – 12:00 Hiroshi Imahori (Kyoto)
“Photoinduced Charge Separation at Donor-Acceptor Interfaces”

Lunch

13:30 – 14:15 Eva Monroy (Grenoble)
“III-N Quantum Dots: Growth, Optical Performance and
Application as Opto-chemical Transducers”

14:15 – 15:00 Shunsaku Kimura (Kyoto)
"Electron Transfer Reaction between Two Electrodes through
Helical Peptides and Oligophenyleneethynyls"

15:00 – 15:10 short break

15:10 – 15:55 Daniel Prades (Barcelona)
“Micro and Nanotechnologies for Zero-Power Highly Specific
(Gas) Sensors”

16:00 – Guided Tour to iCeMS

Dinner

November 19

Presentations by Participants from Industry

- 9:00 – 9:45 Kazuaki Furukawa (NTT Basic Research Lab)
“Self-organization of Biological Molecules at Solid-Liquid Interface: Hybrid Systems for Device Applications”
- 9:45 – 10:30 Kenji Arinaga (Fujitsu)
“GaN HEMT Technology and Recent Research Activities in Fujitsu”

Break

Progress Reports by Junior Researchers

- 10:50 – 11:10 Sara Lippert (Heidelberg/Giessen)
“InGaN/GaN Quantum Dot Structures as Transducers for Optochemical Sensor Systems”
- 11:10 – 11:30 Yuta Takano (Kyoto)
“Development of Porphyrin-Fullerene Based Donor-Acceptor Conjugates for Utilizing Photoinduced Charge Separated State in Cell Environment”
- 11:30 – Short Summary / Hiroshi Imahori

Lunch-On Discussion for Next Steps (Free Talks)

- Moderator / Adviser Hirokazu Hasegawa (URA, Kyoto)
- 13:30 – Final Wrap-Up / Motomu Tanaka and Martin Eickhoff
- 14:00 – Guided Tour to THz Spectroscopy Lab, Department of Physics