

IWMA Program for Poster Presentations

August 4

12:00-14:00 @ Smaller Event Hall “ SEISUI-TEI GOKO “

PSTR-1

Molecular characterization using current noise measurement of carbon nanotubes device at room temperature

Agung Setiadi¹, Hayato Fujii¹, Megumi Akai-Kasaya^{1*}, Seiya Kasai², Yasushi Kanai³, Kazuhiko Matsumoto³, Yuji Kuwahara¹

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PSTR-3

Interelectrode stretched and immobilized DNA nanowires showing photoelectronic function

Norihisa Kobayashi^{*}, Taiki Kunikyo, Kazuki Nakamura

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PSTR-5

Ultra low power consumed molecule sensing on single crystalline nanowires

Takeshi Yanagida^{1*} and Meng Gang¹

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PSTR-7

Chiral switch operated at room temperature

Eiichi Inami¹, Ikutaro Hamada², Keiichi Ueda¹, Masayuki Abe¹, Seizo Morita¹, Yoshiaki Sugimoto^{1*},

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PSTR-9

Gold nanoparticle assemblies stabilized through v. d. Waals interaction between the π -conjugated macrocycle of the phthalocyanine ligand and the gold nanoparticle surface

Yuki Noda^{1,2*} and Takayoshi Nakamura³

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PSTR-11

Fabrication of carbon-nanotube-composite paper and its application to electromagnetic shielding sheet

Tadamitu Inagaki^{*}, Bojue Li, Takahide Oya

Yokohama National University, Japan

PSTR-13

Memory effect of redox state on graphene/ Al_2O_3 bilayer

Kaho Kamada^{1*}, Takashi Ikuta¹, Takao Ono¹, Yasushi Kanai¹, Yasuhide Ohno^{1,2}, Kenzo Maehashi^{1,3}, Koichi Inoue¹, Nana Kawaguchi¹, Yutaka Ie¹, Yoshio Aso¹, and Kazuhiko Matsumoto¹

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PSTR-15

Electrical characterization of three-branch nano-junction device based on graphene nanoribbon crossbar

Xiang Yin^{1*}, Polin Liu², Hirofumi Tanaka², Seiya Kasai¹

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PSTR-17

The contact conductance of a graphene nanoribbon with graphene nano-electrodes

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PSTR-19

First-principles simulations of the switching mechanism in tantalum oxide-based resistive memory devices

Akira Nakayama^{1*}, Jun-ya Hasegawa¹, and Hisao Nakamura²

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PSTR-21

Real-space characterization of phenylene-bridged porphyrin array on Au(111)

Akitoshi Shiotari^{1,2*}, Hiroshi Okuyama¹, Shinichiro Hatta¹, Tetsuya Aruga¹,

Takashi Tamaki³, Takuji Ogawa³

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PSTR-23

Twisted π -conjugated molecules measured by atomic force microscopy

Kota Iwata^{1*}, Akitoshi Shiotari², Takahiro Nakae³, Yuji Shinagawa⁴,

Shigeki Mori⁵, Tetsuo Okujima⁴, Hidemitsu Uno⁴, Hiroshi Sakaguchi³, Yoshiaki Sugimoto^{1,2}

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PSTR-25

Controlled switching of single-molecule junctions by mechanical motion of a phenyl ring

H. Okuyama¹, Y. Kitaguchi¹, S. Habuka¹, S. Hatta¹, T. Aruga¹

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PSTR-27

Synthesis and single molecular measurement of various porphyrin arrays with one thiolate anchoring group

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PSTR-29

The electronic properties of donor-acceptor (DA) single molecular diode based on porphyrin-imide dyads

Zhijin Chen,^{1*} Murni Handayani,¹ Hirofumi Tanaka,¹ Ryo Yamada,² Hirokazu Tada,² Takuji Ogawa¹

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PSTR-31

Syntheses, structures, and electronic properties of quinone compounds derived from porphyrins and their metal complexes

Ken-ichi Yamashita^{1,2*}, Daisuke Hirano,¹ Ken-ichi Sugiura¹

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PSTR-33

Insulated conjugated anchor molecules on ITO substrate

Hiroshi Masai^{*}, Shunichi Kaneko, Jun Terao, Testuaki Fujihara, Yasushi Tsuji

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PSTR-35

Synthesis and physical properties of pyrrole-fused azacoronenes

Masayoshi Takase^{1*}, Tomoyuki Narita², Tohru Nishinaga², Hidemitsu Uno¹

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PSTR-37

Synthesis of ring-expanded porphyrins with no *meso*-bridges

Tetsuo Okujima^{1*}, Chie Ando¹, Hiroki Matsumoto¹, Toshiki Abe¹, Shigeki Mori², Ichiro Hisaki³, Takahiro Nakae⁴, Masatoshi Takase¹, Hidemitsu Uno¹

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PSTR-39

Electronic Conductance Measurement of Au nano particle / Thiophene Compound by multiprobe STM

R.Hobara¹, N. Fukui¹, T.Nakamura¹, S. Hasegawa¹, S.Tamba², Y.Ie², Y. Aso²,

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NOTICE

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August 5

12:00-14:00 @ Smaller Event Hall “ SEISUI-TEI GOKO “

PSTR-2

Atomic switch-based tug of war

Carolin Lutz¹, Toyohiro Chikyo², Song-Ju Kim², Tsuyoshi Hasegawa^{1*}

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PSTR-4

An anti-aromatic approach to enhanced molecular charge-transport

Santiago Marqués-González^{1*}, Shintaro Fujii¹, Ji-Young Shin², Hiroshi Shinokubo², Manabu Kiguchi¹

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PSTR-6

Electron transport through organometallic molecular wires with redox active units

Yuya Tanaka^{1*}, Kaho Sugimoto¹, Fujii Shintaro², Tada Tomofumi³,

Manabu Kiguchi², Munetaka Akita¹

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PSTR-8

Investigation on single walled carbon nanotube-based stochastic resonance device with molecular noise

Hayato Fujii, Agung Setiadi, Megumi Akai-Kasaya*, Yuji Kuwahara

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PSTR-10

Controlling quenching phenomenon of fluorescent dyes using DNA-pretreated single-walled carbon nanotubes

Shusuke Oura, Masahiro Ito, Yoshikazu Homma and Kazuo Umemura

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PSTR-12

Improvement of appealing temperature of negative magnetoresistance in organic coexisting systems of magnetism and conductivity.

Michio M. Matsushita^{1*}, Yudai Ishii¹, Daiki Tonouchi¹, and Kunio Awaga^{1,2}

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PSTR-14

Electronic states of cationic-coronene complexes investigated by optical spectroscopy

Kazuhide Isomura¹, Hideo Kishida^{1*}, Yukihiro Yoshida², Gunzi Saito^{2,3}

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PSTR-16

Development of a dendritic structure with potential gradient: Outer-layer electron-rich phenylazomethine dendrimer

Ken Albrecht¹, Kimihisa Yamamoto^{1*}

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PSTR-18

Conductance of quantum wire with strong electron correlation

Jun'ichi Ozaki^{*}, Yoshihiro Asai

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PSTR-20

Chirality dependent supramolecular structures of porphyrin derivatives on chiral single-walled carbon nanotube surfaces

Ahmed I. A. Abd El-Mageed^{1,2}, Gang Liu,³ Naoki Komatsu,³ Tomoko Inose,¹ and Takuji Ogawa¹

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PSTR-22

STM conductance through CO single molecular junctions

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PSTR-24

Two different channels charge transfer from metal to polar and nonpolar phthalocyanine

Meng-Kai Lin^{1,2,3*}, Yasuo Nakayama³, Ying-Jie Zhuang^{1,2}, ToyoKazu Yamada³, S -J Tang^{1,2}

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PSTR-26

Synthesis and properties of insulated π -conjugated molecular wires containing metals “in” or “on” their backbones

Takuro Hosomi^{*}, Hiroshi Masai, Jun Terao, Testuaki Fujihara, Yasushi Tsuji

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PSTR-28

Synthesis, properties, and electrical conductance of insulated oligothiophenes having spiro-substituted fluorene

Yuji Okamoto^{1*}, Yutaka Ie¹, Ryo Yamada², See Kei Lee², Hirokazu Tada², and Yoshio Aso¹

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PSTR-30

Interfacially synthesized electrically conducting palladium-bis(dithiolene) complex nanosheet

Tigmansu Pal, Tetsuya Kambe, Ryota Sakamoto, Hiroshi Nishihara^{*}

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PSTR-32

A universal synthetic methodology for sub-micrometer-length polythiophenes end-functionalized with anchor groups

Shunsuke Tamba*, Yutaka Ie, Yoshio Aso

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PSTR-34

Development of building blocks for single charge carrier tunneling device system

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PSTR-36

Substituents introduction into porphyrin peripherals by Diels-Alder reaction

Shigeki Mori^{1*}, Tomoko Yoshinouchi², Tetsuo Okujima², Hidemitsu Uno²

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PSTR-38

First-principles study of carrier mobility in metal-containing insulated molecular wires

Tatsuhiko Ohto^{1*}, Hiroshi Masai², Jun Terao², Yasushi Tsuji², Hirokazu Tada¹

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PSTR-40

Construction of binding group terminated self-assembled monolayers (SAMs) for multilayer formation

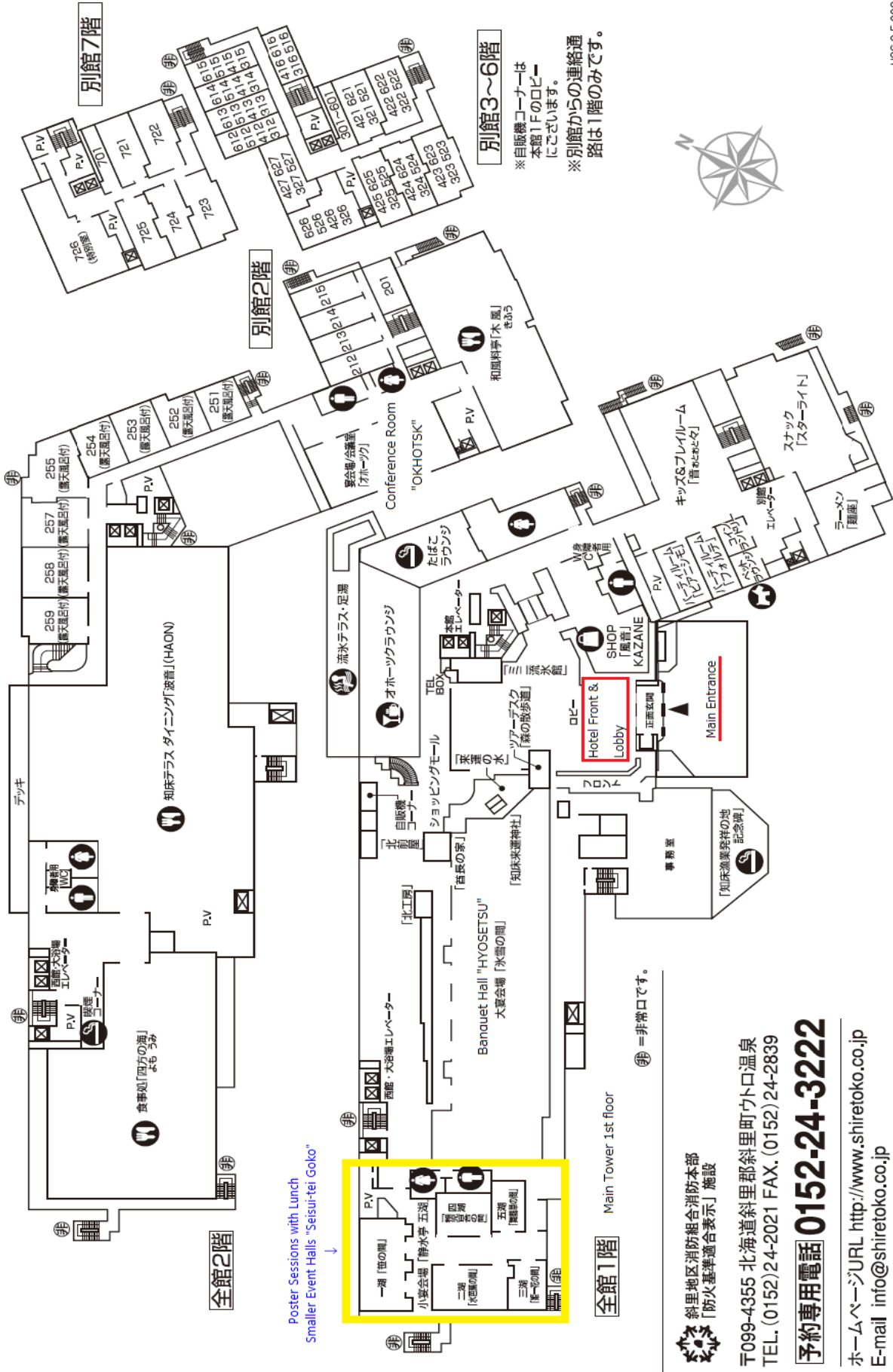
Toshihiro Kondo*, Yurika Ishikawa, Ayumi Shokai, Mariko Hase, and Haruka Terasaki

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