

August 5, Mon.

Special Lecture	25 min (Presentation) + 5 min (Discussion)
General Lecture	10 min (Presentation) + 5 min (Discussion)
Poster Preview	1 min (Presentation)

General Lectures (9:30-10:45)

Properties of Nanotubes

- 1-1 The mechanism and ability of SW/DWCNT adsorbing radioactive elements in the environment
○Takumi Araki, Syogo Tejima, Hisashi Nakamura, Bunshi Fugetsu, Morinobu Endo
- 1-2 Photoluminescence from dried hybrids of double-stranded DNA and single-walled carbon nanotubes
○Masahiro Ito, Yusuke Ito, Tomoki Kobayashi, Takuya Hayashida, Daisuke Nii, Kazuo Umemura, Yoshikazu Homma
- 1-3 Raman study on X-ray induced defect and its structure in carbon nanotube
○Toshiya Murakami, Yuki Yamamoto, Mitsuaki Matsuda, Kenji Kisoda, Chihiro Itoh
- 1-4 Photoluminescence Nonlinearity of Hole-doped Single-walled Carbon Nanotubes
○Naoto Akizuki, Shinichiro Mouri, Yuhei Miyauchi, Kazunari Matsuda
- 1-5 Thermopower in Highly Purified Semiconducting Single-Wall Carbon Nanotube Buckypaper
○Yusuke NAKAI, Kazuya HONDA, Yasumitsu MIYATA, Kazuhiro YANAGI, Yutaka MANIWA

☆☆☆☆☆☆ Coffee Break (10:45-11:00) ☆☆☆☆☆☆

Special Lecture (11:00-11:30)

- 1S-1 Flexible and stretchable carbon nanotube thin-film transistors and integrated circuits
Yutaka Ohno

General Lectures (11:30-12:15)

Application of Nanotubes

- 1-6 Diameter-Dependent Threshold Voltages of Carbon Nanotube Thin-Film Transistors
○Fumiyuki Nihey, Yuta Kikuchi, Fusako Sasaki, Kazuki Ihara, Hideaki Numata, Yuki Kuwahara, Shigekazu Ohmori, Takeshi Saito
- 1-7 Development of compounded foil of carbon nanotube and sputter-deposition carbon
○Hiroo Hasebe, Hironori Kuboki, Hiroki Okuno, Isao Yamane, Hiroshi Imao, Nobuhisa Fukunishi, Masayuki Kase, Osamu Kamigaito
- 1-8 Immunoassay with Single-Walled Carbon Nanotubes as Near-Infrared Fluorescent Labels
○Yoko Iizumi, Toshiya Okazaki, Yuzuru Ikehara, Mutsuo Ogura, Masako Yudasaka

☆☆☆☆☆☆ Lunch (12:15-13:30) ☆☆☆☆☆☆

General Lectures (13:30-14:30)

Applications of Nanotubes, Endohedral Nanotubes

- 1-9 Highly Conductive CNT/Polymer Composite on Arbitrary Rubber Matrices Based on Thermodynamics
○Seisuke Ata, Howon Yoon, Chandramouli Subramaniam, Takaaki Mizuno, Takeo Yamada, Kenji Hata

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- 1-10** Thermally conductive SG-CNT-Cu composite with low thermal expansion
○Yuzuri Yasuda, Chandramouli Subramaniam, Seisuke Ata, Motoo Yumura, Takeo Yamada, Don N. Futaba, Kenji Hata
- 1-11** Metallization of 1D sulfur crystals inside carbon nanotubes
○Toshihiko Fujimori, Aaron Morelos-Gomez, Zhen Zhu, Hiroyuki Muramatsu, Ryusuke Futamura, Koki Urita, Mauricio Terrones, Takuya Hayashi, Morinobu Endo, David Tomanek, Katsumi Kaneko
- 1-12** Structure and electronic properties of π -conjugated polymers formed in carbon nanotubes
○Kenshi Miyaura, Yasumitsu Miyata, Ryo Kitaura, Hisanori Shinohara

☆☆☆☆☆☆ Coffee Break (14:30-14:45) ☆☆☆☆☆☆

Special Lecture (14:45-15:15)

- 1S-2** Symmetric carbon nanostructures produced from organometallic compounds
Hidetsugu Shiozawa

General Lectures (15:15-16:15)

Nanohorn, Carbon Nanoparticles, Environmental/Safety Characterization of Nanomaterials and the Others

- 1-13** Effect of functional groups on encapsulation of functionalized C_{60} molecules inside carbon nanohorns
○Keita Kobayashi, Hiroshi Ueno, Ken Kokubo, Hidehiro Yasuda
- 1-14** Photoinduced Reaction of Polyyne Derivatives and Iodine Molecules in Solution
○Yoriko Wada, Tomonari Wakabayashi
- 1-15** Lysosomal membrane permeabilization induced by carbon nanohorns caused reactive oxygen species generation and apoptosis in RAW264.7 cell
○Mei Yang, Minfang Zhang, Yoshio Tahara, Sumio Iijima, Masako Yudasaka
- 1-16** Development of Ion Mobility Measurement System
○Toshiki Sugai, Yasuhiro Hiroshima, Ninako Mikami

Poster Preview (16:15-17:00)

Poster Session (17:00-18:30)

★: Candidates for the Young Scientist Poster Award

Formation and Purification of Nanotubes

- 1P-1** Bottom-up synthesis and structures of π -lengthened finite single-wall carbon nanotube molecules
★ ○Matsuno Taisuke, Kamata Sho, Hitosugi Shunpei, Isobe Hiroyuki
- 1P-2** Initiation of carbon nanotube growth by well-defined carbon nanorings
★ ○Yasutomo Segawa, Haruka Omachi, Takuya Nakayama, Eri Takahashi, Kenichiro Itami
- 1P-3** Post-annealing effect on single-wall carbon nanotubes prepared by PG-ACCVD technique
Ito Yosuke, ○Suzuki Shinzo, Nagasawa Hiroshi, Ono Akira, Achiba Yohji
- 1P-4** String-like Assembly of Aligned Single-Wall Carbon Nanotubes in a Single-Chiral State
Hideki Kawai, ○Kai Hasegawa, Toru Nakatsu, Yasuhisa Naitou, Yuki Takagi, Yoshihumi Wada, Taishi Takenobu, Kazuhiro Yanagi

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- 1P-5** Elucidation of the Chirality Control of Single-Walled Carbon Nanotube by Irradiating Free Electron Laser during Growth
○Keisuke Yoshida
- 1P-6** SWCNT adsorption onto hydrogels is affected by solute and pH value
○Atsushi Hirano, Yasuko Urabe, Hiromichi Kataura, Takeshi Tanaka
- 1P-7** Effect of Catalytic Elements to the Growth of Nano-Carbon Composite Films
○Yuki Matsuoka, Masamichi Yoshimura
- 1P-8** Fabrication of in-plane Aligned and Semiconducting as-grown Single-Walled Carbon Nanotubes
○Nobuyuki Iwata, Takumi Sagara, Yusaku Tsuda, Keisuke Yoshida, Koji Ishii, Hirofumi Yajima, Hiroshi Yamamoto
- 1P-9** ★ Enrichment of 1.1 nm-diameter single-wall carbon nanotubes by high-temperature gel filtration
○Ryota Ichimura, Yasumitsu Miyata, Yusuke Nakai, Kazuhiro Yanagi, Yutaka Maniwa
- 1P-10** Low-temperature single-walled carbon nanotubes synthesis from Pt catalysts in the alcohol gas source method and its growth mechanism
○Hiroki Kondo, Ranajit Ghosh, Shigeya Naritsuka, Takahiro Maruyama, Sumio Iijima
- 1P-11** Purification of Single-Walled Carbon Nanotubes by Applying Photochemical Reaction of an Ionic Organic Molecule
○Yoko Matsuzawa, Yuko Takada, Tetsuya Kodaira, Hideyuki Kihara, Masaru Yoshida
- 1P-12** “Frost column like CNTs” growth by thin Ni catalyst films
○Yuji Kusumoto, Kazuki Sekiya, Hirofumi Koji, Hiroshi Furuta, Akimitsu Hatta
- 1P-13** Diameter Distribution of Single-Walled Carbon Nanotubes from Nanodiamond Particles as the Catalysts for CVD Growth
○Takanori Umino, Taiki Inoue, Shohei Chiashi, Yoshikazu Homma, Shigeo Maruyama
- 1P-14** Improved efficiency in metal-free carbon nanotube growth from nanodiamonds by switching growth driving force
○Hiraaki Kokame, Kazuki Fujimoto, Ryota Negishi, Tatsuji Arifuku, Noriko Kiyoyanagi, Yoshihiro Kobayashi
- 1P-15** Molecular Dynamics Simulation of SWNT Growth and DFT Calculation of the Chemical Reaction of Ethanol and Cobalt Clusters
○Kaoru Hisama
- 1P-16** ★ Chirality Analysis of Horizontally Aligned Single-Walled Carbon Nanotubes by Raman Spectroscopy
○Taiki Inoue, Daisuke Hasegawa, Shohei Chiashi, Shigeo Maruyama
- 1P-17** Growth kinetics of narrow-chirality distributed single-walled carbon nanotube under pulse plasma CVD
○Bin Xu

Properties of Nanotubes

- 1P-18** Optical properties of vertically aligned CNT forests formed at various growth temperature
○Hiroshi Furuta, Kazuki Sekiya, Keisuke Takano, Masanori Hangyo, Akimitsu Hatta
- 1P-20** Coherent phonon spectroscopy of semiconducting single-wall carbon nanotubes
○Yuki Honda, Elizabeth Maret, Atsushi Hirano, Takeshi Tanaka, Kotaro Makino, Muneaki Hase

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- 1P-21** Interplay of wall number and diameter on the electrical conductivity of carbon nanotube thin films
○Guohai Chen, Don Futaba, Shunsuke Sakurai, Motoo Yumura, Kenji Hata
- 1P-22** Effect of lattice vibration on the geometry of carbon nanotubes
○Takashi Koretsune, Koichiro Kato, Susumu Saito
- 1P-23** Temperature Dependence of Stokes and anti-Stokes photoluminescence from oxygen-doped carbon nanotubes
○Yuhei Miyauchi, Naoto Akizuki, Munechiyo Iwamura, Shinichiro Mouri, Kazunari Matsuda

Applications of Nanotubes

- 1P-24** ★ Highly Sensitive Detection of Oxygen Gas by Perovskite Materials Decorated Single-Walled Carbon Nanotubes
○Fukuda Hiroshi
- 1P-25** Gas Sensing using Semiconducting Single-Walled Carbon Nanotubes Thin Film
○Suzuki Yuto
- 1P-26** ★ Interaction between Carbon Nanotubes and Neurons Studied With High-Density Microelectrode Arrays
○Florent Seichepine, Kosmas Deligkaris, Urs Frey
- 1P-27** Oxygen Reduction Reaction of Nitrogen-doped Graphitic Structure Using Single-walled Carbon Nanotubes as a Catalyst Support
Junich Morita, ○Tsuyohiko Fujigaya, Naotoshi Nakashima
- 1P-28** ★ Air-Stable High-Efficiency Nanotube-Si Heterojunction Solar Cells
○Kehang Cui
- 1P-29** ★ Influence of dispersion state of long SWCNTs on the electrical conductivity of composites
○Howon Yoon, Seisuke Ata, Takeo Yamada, Motoo Yumura, Kenji Hata

Applications of Fullerenes

- 1P-30** Fabrication and characterization of inverted-type organic thin-film solar cells using [60]fullerene-diamine assembly films
○Banya Shoto, Matsumoto Taisuke, Oku Takeo, Akiyama Tsuyoshi
- 1P-31** Synthesis and evaluation of spiro-acetalized [60]fullerene toward organic photovoltaic devices
○Masuda Hiroyuki, Kokubo Ken, Ikuma Naohiko, Tsubasa Mikie, Saeki Akinori, Seki Shu, Oshima Takumi
- 1P-32** Preparation and microscopic analysis of fullerene-diamine adducts as organic electronic material
○Yuji Ono, Tsuyoshi Akiyama, Takeo Oku
- 1P-33** The electrical transport properties of photo-polymerization of C₆₀ thin film using focused optical vortex
○Wataru Akiyama, Daiki Momiyama, Naoto Toriumi, Katsuhiko Miyamoto, Takashige Omatsu, Jonathan Bird, Yuichi Ochiai, Nobuyuki Aoki
- 1P-34** Efficiency improvement of PTB7:PC71BM organic solar cells by inserting LiF cathode buffer layer
○Shunjiro Fujii, Tatsuki Yanagidate, Masaya Ohzeki, Yuichiro Yanagi, Yuki Arai, Takanori Okukawa, Akira Yoshida, Takeshi Tanaka, Yasushiro Nishioka, Hiromichi Kataura
- 1P-35** Energetics and Electronic Structure of C₆₀ doped Bulk Si
○Okada Susumu

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- 1P-36** Synthesis and Characterization of Fullerene Derivatives with a Thiophene Moiety in Organic Photovoltaic Devices
○Tatsuya Hayashi, Jaebuem Oh, Haeseong Lee, JongJun Ann, HeeJae Lee, Jin Jang, Chyongjin Pac, Hiroshi Moriyama
- 1P-37** Structural Effect of Fullerene Derivatives with a Cyano Group in Organic Photovoltaic Devices
○Kana Matsumoto, Jaebuem Oh, Haeseong Lee, JongJun Ann, HeeJee Lee, Jin Jang, Chyongjin Pac, Hiroshi Moriyama

August 6, Tue.

Plenary Lecture	40 min (Presentation) + 5 min (Discussion)
Special Lecture	25 min (Presentation) + 5 min (Discussion)
General Lecture by Candidate for Osawa Award and Iijima Award	10 min (Presentation) + 10 min (Discussion)
General Lecture	10 min (Presentation) + 5 min (Discussion)
Poster Preview	1 min (Presentation)

General Lectures by Candidates for Osawa Award (9:00-9:40)

- 2-1 Enhanced photoelectrochemical performance of composite photovoltaic cells of $\text{Li}^+@C_{60}$ /sulfonated porphyrin supramolecular nanoclusters
○Kei Ohkubo, Yuki Kawashima, Hayato Sakai, Taku Hasobe, Shunichi Fukuzumi
- 2-2 Surface functionalization of nanodiamonds towards high solubility in physiological media and practical biomedical applications
○Zhao Li, Chen Xiao, Chano Tokuhito, Komatsu Naoki

General Lectures by Candidates for Iijima Award (9:40-10:40)

- 2-3 Carbon Nanotubes Growth via Twisted Graphene Nanoribbons
○Hong En Lim, Yasumitsu Miyata, Ryo Kitaura, Yoshifumi Nishimura, Yoshio Nishimoto, Stephan Irle, Jamie H. Warner, Hiromichi Kataura, Hisanori Shinohara
- 2-4 Highly Durable Polymer Electrolyte Fuel Cell Electrocatalyst Based on Carbon Nanotube
○Tsuyohiko Fujigaya, Naotoshi Nakashima
- 2-5 Stabilities and Electronic Structures of Carbon Impurities in Hexagonal Boron-Nitride Monolayers and Bilayers
○Yoshitaka Fujimoto, Takashi Koretsune, Susumu Saito

☆☆☆☆☆☆ Coffee Break (10:45-11:00) ☆☆☆☆☆☆

Special Lecture (11:00-11:30)

- 2S-3 Graphene based optoelectronics in the visible spectra
Coskun Kocabas

General Lectures (11:30-12:15)

Formation and Applications of Graphene

- 2-6 Effect of High Pressure Pre-Annealing on Graphene Growth on Copper by Chemical Vapor Deposition
○Seiya Suzuki, Takashi Nagamori, Yuki Matsuoka, Masamichi Yoshimura
- 2-7 Electronic structure of potassium doped MoS_2
○Nguyen Thanh Cuong, Minoru Otani, Susumu Okada
- 2-8 Highly Conductive NGP/Epoxy Composites
○Afshin J. Ebrahimi, Suzuki Shingo, Sawatani Seiichi, Ueno Masataka, Miyamoto Norihiko, Iida Masayasu

☆☆☆☆☆☆ Lunch (12:15-13:30) ☆☆☆☆☆☆

August 6, Tue.

Young Scientist Poster Award Ceremony (13:30-13:45)

General Meeting (13:45-14:15)

Plenary Lecture (14:15-15:00)

2S-4 Separation of Single-Wall Carbon Nanotubes using Gel Column Chromatography
Hiromichi Kataura

General Lectures (15:00-15:45)

Endohedral Metallofullerenes

- 2-9** Ultraviolet Photoelectron spectra of $\text{Sc}_3\text{C}_2@\text{C}_{80}$
○Takafumi Miyazaki, Sousuke Ookita, Takeyuki Zaima, Tatsuhiko Nishi, Haruya Okimoto, Noriko Izumi, Yuusuke Nakanishi, Hajime Yagi, Hisanori Shinohara, Shojun Hino
- 2-10** Electrochemical synthesis of $\text{Li}^+@\text{C}_{60}^{\bullet-}$ based on the high ionic conductivity of $[\text{Li}^+@\text{C}_{60}](\text{PF}_6^-)$ in aromatic solvent
○Hiroshi Ueno, Ken Kokubo, Kei Ohkubo, Naohiko Ikuma, Hiroshi Moriyama, Shunichi Fukuzumi, Takumi Oshima
- 2-11** Chemical Modifications of Lithium-Ion-Encapsulated [60]fullerene $[\text{Li}^+@\text{C}_{60}(\text{CpH})]\text{PF}_6^-$ and $[\text{Li}^+@\text{C}_{60}(\text{CPh}_2)]\text{PF}_6^-$
○Hiroki Kawakami, Hiroshi Okada, Yutaka Matsuo

☆☆☆☆☆☆ Coffee Break (15:45-16:00) ☆☆☆☆☆☆

Poster Preview (16:00-16:45)

Poster Session (16:45-18:15)

★: Candidates for the Young Scientist Poster Award

Formation of Graphene

- 2P-1** Controlling the number of layers of graphene by binary metal catalyst
★ ○Takesaki Yuichiro
- 2P-2** Direct Growth of Graphene on Insulating Substrates by Annealing of Amorphous Carbon
★ ○Yohei Hasebe, Hitoshi Nakahara, Koji Asaka, Yahachi Saito
- 2P-3** Shape-controlled synthesis of graphene and h-BN heterostructures
○Eriko Maeda, Yasumitsu Miyata, Ryo Kitaura, Hisanori Shinohara
- 2P-4** Decreasing growth rate of graphene layers on graphene nanoribbons
○Haruki Kitakawa, Ryota Negishi, Hirofumi Tanaka, Minoru Fukumori, Takuji Ogawa, Yoshihiro Kobayashi
- 2P-5** Growth mechanism for graphene and graphene nanoribbon under rapid-heating plasma CVD
○Hiroo Suzuki, Toshiaki Kato, Toshiro Kaneko
- 2P-6** The effect of adding N-containing compounds on the eDIPS-CVD synthesis of SWCNTs
○Shigekazu Ohmori, Masaharu Kiyomiya, Takayoshi Hirai, Yuki Kuwahara, Takeshi Saito

August 6, Tue.

Nanohorn

- 2P-7** Preparation and structural properties BN-doped carbon nanohorn aggregates
○Ryota Yuge, Takashi Manako, Shunji Bandow, Masako Yudasaka, Kiyohiko Toyama, Takashi Yamaguchi, Kentaro Nakahara
- 2P-8** Dynamic whole-body imaging of radiolabelled carbon nanohorns in mice
○Minfang Zhang, Dhifaf Jasim, Antonio Nunes, Cécilia Ménard-Moyon, Alberto Bianco, Sumio Iijima, Masako Yudasaka, Kostas Kostarelos
- 2P-9** Electrical resistance measurement of single carbon nanocoil
○Ryuji Kunitomo, Taiichi Yonemura, Yoshiyuki Suda, Hideto Tanoue, Hirofumi Takikawa, Hitoshi Ue, Kazuki Shimizu, Yoshito Umeda
- 2P-10** Efficient synthesis of fullerenes in multi-phase ac arc plasma
○Hiroshi Sano, Ryoji Nakaya, Norio Maki, Masaaki Ashihara, Hiroyuki Magara, Mikihiro Ueno, Masanori Takeuchi, Eiji Saji

Properties of Nanotubes

- 2P-11** Direct CVD Synthesis of Suspended Double-walled Carbon Nanotubes and Their Characterization by
★ TEM and Optical Spectroscopy
○Sihan Zhao, Tomoya Kitagawa, Yuhei Miyauchi, Kazunari Matsuda, Hisanori Shinohara, Ryo Kitaura
- 2P-12** Evaluation method of reliable specific strength of ultra-light MWCNT fiber based on uncertainty
★ ○Hikaru Nishizaka, Yoshinori Sato, Kenichi Motomiya, Kazuyuki Tohji
- 2P-13** Gas adsorption properties of gel-immobilized ultrathin carbon nanotubes
★ ○Eri Inukai, Yasumitsu Miyata, Ryo Kitaura, Hisanori Shinohara
- 2P-14** Coulomb Blockade Effect at Quantum Dots Formed in SWNTs Network FET Studied via Scanning
★ Gate Microscopy
○Masahiro Matsunaga, Xiaojun Wei, Kenji Maeda, Tatsuro Yahagi, Jonathan P. Bird, Koji Ishibashi, Yuichi Ochiai, Nobuyuki Aoki
- 2P-15** Mechanistic Studies on the Helicity-Selective Photoreaction of Single-Walled Carbon Nanotubes with
★ Organosulfur Compounds in the Presence of Oxygen
○Yuri Amagai, Yutaka Maeda, Kei Ohkubo, Shunichi Fukuzumi, Michio Yamada, Tadashi Hasegawa, Takeshi Akasaka
- 2P-16** Thermal annealing effect of X-ray irradiation defect in carbon nanotube
○Mitsuaki Matsuda, Yuki Yamamoto, Toshiya Murakami, Kenji Kisoda, Chihiro Itoh
- 2P-17** Electric and electronic properties of CNT/n-type 4H-SiC interface formed by surface decomposition of
SiC
○Takatoshi Yajima, Toyokazu Nomoto, Takahiro Maruyama
- 2P-18** Precise Probing of Local Thermal Elevation of Metal Nanostructure during Laser Illumination
Utilizing Surface-enhanced Raman Scattering from a Single-Walled Carbon Nanotube
○Satoshi Yasuda, Hideki Nabika, Mai Takase, Shinji Hoshina, Masanobu Nara, Ryukou Shito
- 2P-19** UV, X-ray and e-beam irradiation effects of IR absorption bands in single-walled carbon nanotubes
○Masao Ichida, Yasumitsu Miyata, Chihiro Ito, Toshiya Murakami, Yuka Ikemoto, Akira Kawakami, Kazuhiro Yanagi, Hiromichi Kataura, Hiroaki Ando

August 6, Tue.

- 2P-20** Charge transfer between polyoxometalates and SWNTs by means of photoluminescence spectroscopy
★ ○Liu Hong, Naotoshi Nakashima

Chemistry of Fullerenes

- 2P-21** Determination of Hyperfine Coupling Constants of Cycloparaphenylene Cation Radical
★ ○Takahiko Koyama, Eiichi Kayahara, Shigeru Yamago, Tatsuhisa Kato
- 2P-22** Photoinduced Charge Separation in Supramolecules between $\text{Li}^+@\text{C}_{60}$ and Chlorins
○Yuki Kawashima, Kei Ohkubo, Shunichi Fukuzumi
- 2P-23** A trend in the hyperfine constant for the series of $\text{N}@\text{C}_n$ endofullerenes
○Tomonari Wakabayashi, Tatsuya Kanemoto, Ryuki Imamura
- 2P-24** Synthesis, structure, and properties of a highly soluble fullerene-pentacene adduct
○Takuya Nishihama
- 2P-25** Solid-State Reaction of $\text{H}_2\text{O}@\text{C}_{60}$ and X-Ray Structure of the [2+2] Dimer
★ ○Rui Zhang, Michihisa Murata, Atsushi Wakamiya, Yasujiro Murata
- 2P-26** Photoinduced electron transfer in a porous organic salt composed of 9-(4-sulfophenyl)anthracene and triphenylmethylamine and fullerene.
○Tetsuya Hasegawa, Kei Ohkubo, Norimitsu Tohnai, Ichiro Hisaki, Mikiji Miyata, Shunichi Fukuzumi
- 2P-27** Evaluation of Thermal Stability of Nanocomposite Polymers with Multiarylated Fullerenes
○Ryo Takahashi, Ken Kokubo, Akio Harada, Naohiko Ikuma, Takumi Oshima
- 2P-28** C_{60} regeneration by oxidative deamination of azafulleroids with peracids and substituent effects of azafulleroids
○Koichi Fujioka, Naohiko Ikuma, Yusuke Misawa, Ken Kokubo, Takumi Oshima
- 2P-29** Activation Energies of C_2 Elimination from C_{62} Isomers
○Dai Nagashima, Tohru Sato, Kazuyoshi Tanaka
- 2P-30** One-pot Synthesis of Periconjugated Fullerotriazolium and its Aggregation Behavior
○Naohiko Ikuma, Saori Inaba, Ken Kokubo, Takumi Oshima
- 2P-31** Synthesis and Properties of 1-Aryl-4-(N-alkylamino)fullerenes
○Tsubasa Mikie, Akinori Saeki, Naohiko Ikuma, Ken Kokubo, Takumi Oshima, Shu Seki
- 2P-32** Thermal Silylation Reactions of C_{60} Using Three-membered Ring Organosilicon Compounds
○Daiki Inaba, Ryosuke Iida, Masahiro Kako, Tadashi Hasegawa, Yutaka Maeda, Michio Yamada, Takeshi Akasaka

Endohedral Metallofullerene

- 2P-33** The density functional theory calculations of $\text{Sc}_2\text{C}_2@\text{C}_{82}$
○Yuma Seino, Takahiro Hinoishi, Hajime Yagi, Takafumi Miyazaki, Shojun Hino
- 2P-34** Photoelectron spectroscopy of $\text{Er}_3\text{N}@\text{C}_{80}$
○Takahiro Hinoishi
- 2P-35** Definite molecular structures of $\text{M}@\text{C}_{2n}(9)-\text{C}_{82}$ ($\text{M} = \text{Sc}, \text{Y}, \text{and Ce}$)
★ ○Mitsuaki Suzuki, Zdenek Slanina, Naomi Mizorogi, Xing Lu, Michio Yamada, Yutaka Maeda, Tadashi Hasegawa, Shigeru Nagase, Marilyn Olmstead, Alan Balch, Takeshi Akasaka

August 6, Tue.

- 2P-36** Synthesis of new $[\text{Li}^+@C_{60}]$ salts for improved solubility
○Hiroshi Okada, Yutaka Matsuo
- 2P-37** Solid State Lithium NMR Studies on Complexes Composed of Lithium and C_{60} Fullerene
○Tomoaki Endo

August 7, Wed.

Special Lecture	25 min (Presentation) + 5 min (Discussion)
General Lecture	10 min (Presentation) + 5 min (Discussion)
Poster Preview	1 min (Presentation)

Special Lecture (9:00-9:30)

- 3S-5 Low-energy electron microscopy study of graphene growth
Hiroki Hibino

General Lectures (9:30-10:15)

Properties of Graphene

- 3-1 Tuning the Chemical Reactivity of Graphene by Mechanical Strain
○Mark Bissett, Satoru Konabe, Susumu Okada, Masaharu Tsuji, Hiroki Ago
- 3-2 Stabilities and Electronic Properties of Silicene- and Graphene-based Composite Materials
○Susumu Saito, Takashi Koretsune
- 3-3 Valley Dependence of Exciton Many-Body Effects in Monolayer Transition-Metal Dichalcogenides
○Satoru Konabe, Susumu Okada

Special Lecture (10:15-10:45)

- 3S-6 Growth of highly-integrated graphene nanoribbon toward high performance device applications
Toshiaki Kato

☆☆☆☆☆☆ Coffee Break (10:45-11:00) ☆☆☆☆☆☆

Special Lecture (11:00-11:30)

- 3S-7 Ultrahigh-density data storage using C₆₀ molecules
Masato Nakaya

General Lectures (11:30-12:30)

Chemistry and Applications of Fullerenes

- 3-4 Morphology control and solid state properties of fullerenol nanosheets and nano crystals
○Yoshiaki Sano, Keisuke Baba, Hironori Ogata
- 3-5 Selective Synthesis of Novel Octaalkoxyfullerenes C₆₀(OR)₈ and Octaarylfullerene C₆₀(4-MeOC₆H₄)₈ by a Substitution Reaction of Octabromofullerene C₆₀Br₈
○Kouya Uchiyama, Hiroshi Moriyama, Kenji Yoza
- 3-6 Selective Synthesis of Fullerenols and their Derivatives; C₆₀(OH)₅X and C₆₀(OSiMe₃)₅X (X = Cl, Br)
○Miki Igarashi, Shouhei Yamamoto, Hiroshi Ueno, Kenji Yoza, Hiroshi Moriyama
- 3-7 Crystal Structure and Dielectric Property of H₂O@C₆₀
○Shinobu Aoyagi, Norihisa Hoshino, Tomoyuki Akutagawa, Ryo Kitaura, Hisanori Shinohara, Kunihisa Sugimoto, Rui Zhang, Yasujiro Murata

☆☆☆☆☆☆ Lunch (12:30-13:45) ☆☆☆☆☆☆

August 7, Wed.

Special Lecture (13:45-14:15)

- 3S-8** Preparation, size-separation and biomedical application of water-soluble nanocarbons
Naoki Komatsu

General Lectures (14:15-15:00)

Formation and Purification of Nanotubes

- 3-8** Why is (6,5) nanotube so special in the tube growth processes? - Experimental and theoretical considerations-
○Yohji Achiba, Takeshi Kodama, Kenro Hashimoto, Haruo Shiromaru, Toshiya Okazaki
- 3-9** Bis(tert-butylpyrene) nanotweezers and nanocalipers: Enhanced extraction and recognition abilities for single-walled carbon nanotubes
○Gang Liu, A. F. M. Mustafizur Rahman, Takahide Kimura, Naoki Komatsu
- 3-10** The Infinite Possible Growth Ambients that Support Single-Wall Carbon Nanotube Forest Growth
○Hiroe Kimura

☆☆☆☆☆☆ Coffee Break (15:00-15:15) ☆☆☆☆☆☆

Poster Preview (15:15-16:00)

Poster Session (16:00-17:30)

Applications of Graphene

- 3P-1** Preparation and Properties of Surface Modified Graphene Oxide by Grafting of Polymers
○Tetsuo Sumiyoshi, Kazuhiro Nagata, Yusuke Yagi, Kazuhiro Fujiki, Norio Tsubokawa
- 3P-2** Hybrid Graphene –Titanium Surface for Sensing Applications
○Kakimi Yousuke, Rius Gemma, Eryu Osamu
- 3P-3** Substrate effects on chemical doping of graphene in tris buffer
Katsuya Masuda, ○Masahito Sano
- 3P-4** Anomalous behavior of Raman signals from carbon nanotube-graphene hybrid structures
○Taro Kusumoto, Hiraaki Kokame, Ryota Negishi, Yoshihiro Kobayashi
- 3P-5** Synthesis and characterization of Pt-Ru nanoparticles on carbon nanosheets by one-step electrodeposition
○Hayase Shohei
- 3P-6** Suppressed mobility degradation in large-area graphene oxide films by alcohol vapor treatments
○Michihiro Matsuzaki, Ryota Negishi, Yasuhide Ohno, Kenzo Maehashi, Kazuhiko Matsumoto, Yoshihiro Kobayashi
- 3P-7** Water-Soluble Graphene through Polyglycerol Grafting
★ ○Toku Yasuda, Li Zhao, Gang Liu, Syuji Aonuma, Takahide Kimura, Naoki Komatsu

Properties of Graphene

- 3P-8** Fabrications of Fullerene-Graphene and Fullerene-Nanotube-Graphene Composites
○Tomokazu Umeyama, Jinseok Baek, Noriyasu Tezuka, Kazuki Morita, Hiroshi Imahori
- 3P-9** Layer Number Determination using Raman Spectroscopy for Graphene Films Grown on SiC Substrate
○Hitoshi Nakahara, Daisuke Maeta, Yahachi Saito

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- 3P-10** ★ A Two-dimensional Carbon Network of Fused Pentagons: All Carbon Magnetic Sheet
○Mina Maruyama, Susumu Okada
- 3P-11** Fermi energy dependence of G' band of graphene and single wall carbon nanotubes
○Kentaro Sato, Riichiro Saito
- 3P-12** ★ Electronic Properties of Graphene under an Electric Field
○Ayaka Yamanaka, Susumu Okada
- 3P-13** Collective excitations in superconducting graphene
○Inotani Daisuke, Ohashi Yoji, Okada Susumu

The Others

- 3P-14** Structural transformation of iron oxide nanotubes by heat treatment
○Shunji Bandow, Yuki Shiraki
- 3P-15** Improvement of synthesis conditions for high yield of carbon nanocoils
○Maruyama Koji, Suda Yosiyuki, Tanoue Hideto, Takikawa Hirohumi, Ue Hitoshi, Shimizu Kazuki, Umeda Yoshito
- 3P-16** Electromagnetic wave absorption properties of carbon nanocoils
○Ryo Kato, Shingo Yasudomi, Yoshiyuki Suda, Hideto Tanoue, Hirofumi Takikawa, Hitoshi Ue, Kazuki Shimizu, Yoshito Umeda, Usaburo Eguchi
- 3P-17** ★ Spring Constant Measurement of Carbon Nanocoils
○Taiichiro Yonemura, Yoshiyuki Suda, Hideto Tanoue, Hirofumi Takikawa, Hitoshi Ue, Kazuki Shimizu, Yoshito Umeda
- 3P-18** In-situ observation of carbon nanocoil growth by optical microscope
○Takehiro Gohara, Takayuki Arie, Seiji Akita
- 3P-19** ★ Electrically Induced P-N Junction in WSe₂ Monolayer Film
○Ryo Shimizu, Jiang Pu, Lain-Jong Li, Yoshihiro Iwasa, Taishi Takenobu
- 3P-20** ★ Layer Number Dependence of Optical Properties of MoS₂
○Yasunori Ogawa

Applications of Nanotubes

- 3P-21** Preparation of Diamond Particle Decorated with Carbon Nanotube
○Wataru Kimura, Kazuhiro Fujiki, Takeshi Yamauchi, Norio Tsubokawa
- 3P-22** Synthesis of ordered carbon nanotube network using pillar molecules
○Tashiro Kosuke, Song Hayong, Ishii Yosuke, Kawasaki Shinji
- 3P-23** Carbon nanotubes functionalized with carboxylic acid dispersed in 3D polymeric microstructures
○A. J. G. Otuka, V. Tribuzi, D. S. Correa, A. R. Zanatta, C. R. Mendonca
- 3P-24** High-Performance fluorinated resin with Low-content Aligned carbon nanotube
○Kentaro Miyoshi, Takeru Yajima, Toru Sakai, Masami Toyoda, Yoshikazu Nakayama
- 3P-25** In-situ TEM study on reaction of silicon nanoparticles with carbon supported on a carbon nanotube heater
○Koji Asaka, Tomohiro Terada, Yahachi Saito

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- 3P-26** Large current controllable solution-gate FET by carbon nanotube forest
○Miho Myodo
- 3P-27** Limiting factors of photovoltaic efficiency in semiconducting Single-walled Carbon Nanotubes/Si heterojunction cells: Correlation between cell structure, morphology, interface states and photovoltaic properties
○Nakano Atsushi, Ogata Hironori
- 3P-28** Effect of the Structure of Single-Walled Carbon Nanotube Counter Electrode on Dye-Sensitized Solar Cells
○Takaaki Chiba, Hidenori Kinoshita, Kehang Cui, Eric Einarsson, Shohei Chiashi, Shigeo Maruyama
- 3P-29** Fabrication of flexible and transparent capacitance-type touch panel with single-walled carbon nanotubes based on simple transfer process
○Norihiko Fukaya, Shigeru Kishimoto, Suguru Noda, Yutaka Ohno

Endohedral Nanotubes

- 3P-30** Charge state of capsule prepared by coalescence of $\text{Sc}_3\text{N}@C_{80}$ molecules in a carbon nanotube
★ ○Yuki Yonetani, Ahmadreza Fallah Gilvaei, Ryosuke Senga, Kaori Hirahara, Ryo Kitaura, Hisanori Shinohara, Yoshikazu Nakayama
- 3P-31** Energetics of Formation Process of C_{60} included [n]Cyclacene
★ ○Kigure Shota, Okada Susumu

Carbon nanoparticles

- 3P-32** Effect of the catalytic activity of catalyst nanoparticles on different types of carbon supports
○Masahiro Ozaki, Yoshiyuki Suda, Hirofumi Takikawa, Hideto Tanoue, Hitoshi Ue, Kazuki Shimizu
- 3P-33** Production of carbon nano-capsules and sacklike nano-carbons by impact reaction in nitrogen gas
○Mieno Tetsu, Kondo Kazuhiko, Sunao Hasegawa, Kosuke Kurosawa
- 3P-34** Formation of LaCO_3OH in the oxidation process of carbon nanocapsules encaging LaC_2
○Kazunori Yamamoto, Kenji Yamaguchi, Shin-ichi Shamoto, Takeshi Akasaka
- 3P-35** Improvement in specific capacitance of electric double-layer capacitors by oxidization of carbon nanoballoon
★ ○Yuta Okabe, Yoshiyuki Suda, Hirofumi Takikawa, Hideto Tanoue, Hitoshi Ue, Kazuki Shimizu