

January 7th, Fri

Special lecture : 25min(Presentation)+5min(discussion)

General lecture : 10min(Presentation)+5min(discussion)

Poster preview : 1min(Presentation),no discussion

Special lecture (9:00-9:30)

1S-1 Development of High-temperature Pulsed Arc Discharge Toshiaki Sugai

General lecture (9:30-10:30)

Properties of nanotubes

- 1-1 Field Effect on Photoluminescence of Individual Single-Walled Carbon Nanotubes Yutaka Ohno, Shigeru Kishimoto, Takashi Mizutani
- 1-2 Four terminal measurements on SWNT-FETs and effects of Schottky barriers Takayoshi Kanbara, Yoshihiro Iwasa, Kazuhito Tsukagoshi, Yoshinobu Aoyagi, Hiromichi Kataura
- 1-3 Charge-Transfer-Doped Carbon Nanotube Transistors Hidefumi Hiura, Tetsuya Tada, Toshihiko Kanayama, Fumiyuki Nihey, Hiroo Hongo, Yukinori Ochai
- 1-4 210-Femtoseconds Mode-Locked Er-doped Fiber Laser Using Carbon Nanotube-Polyvinylalcohol Nanocomposite Film as Saturable Absorber Aleksey G. Rozhin, Youichi Sakakibara, Madoka Tokumoto, Yohji Achiba, Hiromichi Kataura

Coffee Break (10:30-10:45)

Special lecture (10:45-11:15)

1S-2 Fullerenes for "Radical ControlTM" of your life Coming soon !! : Fullerenes as High Performance Cosmetic Ingredients and More. Kenji Matsubayashi

General lecture (11:15-12:00)

Properties of nanotubes

- 1-5 Thermal conductivity of single-walled carbon nanotubes with isotopes Junichiro Shiomi, Shigeo
- 1-6 Thermal properties of multiwall carbon nanotubes Seiji Akita, Yoshikazu Nakayama
- 1-7 HR-TEM observation of the defects in DWNT Koki Urita, Kazu Suenaga, Toshiaki Sugai, Hisanori Shinohara, Sumio Iijima

Lunch Time (12:00-13:00)

Special lecture (13:00-13:30)

1S-3 Development and engineering in Fullerene commercial Production Mineyuki Arikawa

General lecture (13:30-14:15)

Properties of Nanotubes

- 1-8 NIR photoluminescence of SWNTs produced by the "Super-Growth" process Toshiya Okazaki, Yuhei Hayamizu, Kohei Mizuno, Don N. Futaba, Kenji Hata, Motoo Yumura, Sumio Iijima
- 1-9 Electron-phonon interaction and mean free path in metallic nanotubes J. Jiang, R. Saito, A. Gruneis, G. Dresselhaus, M. S. Dresselhaus
- 1-10 Absorption and Luminescent Properties of Single-wall Carbon Nanotubes Homogeneously Dispersed in Films of Cellulose Derivatives Nobutsugu Minami, Yeji Kim, Said Kazaoui, Kanae Miyashita, Nalini

Coffee Break (14:15-14:30)

General lecture (14:30-15:15)

Fullerene formation, higher fullerenes

1-11 Polymeric Carbon Cluster with sp Hybridization Tomonari Wakabayashi

Miscellaneous

1-12 Engagement of metal nanoparticle onto carbon nanohorn through cage proteins Ken-Ichi Sano, Ajima Kumiko, Kenji Iwahori, Yudasaka Masako, Sumio Iijima, Ichiro Yamashita, Kiyotaka Shiba

Applicaton nanotubes

- 1-13 Application of carbon nanotubes as scaffold for cell culture Nafumi Aoki, Atsuro Yokoyama, Yoshinobu Nodasaka, Tsukasa Akasaka, Motohiro Uo, Fumio Watari, Yoshinori Sato, Kazuyuki Tohji

General lecture (15:15-16:00)

Properties of Nanotubes

- 1-14 Dynamic Observation of Field Emissions from a Single Multi-Walled Carbon Nanotube by Transmission Electron Microscopy Tadashi Fujieda, Kishio Hidaka, Mitsuo Hayashibara, Hiroaki Matsumoto, Takeo Kamino, Toshihide Agemura, Hidekazu Abe, Tetsuo Shimizu and Hiroshi Tokumoto

Nanohorns

- 1-15 C₆₀-Incorporated Carbon Nanohorns: Control of Filling and Releasing Ryota Yuge, Masako Yudasaka, Toshinari Ichihashi, Yoshimi Kubo, Sumio Iijima
- 1-16 Production of Small Highly Graphitized Carbon Nanohorns Takeshi Azami, Daisuke Kasuya, Tsutomu Yoshitakea, Yoshimi Kubo, Masako Yudasaka, Toshinari Ichihashi and Sumio Iijima

Poster preview (16:00-17:10)

Poster session (17:10-18:40)

Properties of Nanotubes

- 1P-1 Defects on Carbon Nanotubes Abdou Hassanien, Madoka Tokumoto
- 1P-2 Current-Voltage Characteristics of Nanotube-Based Multi-Terminal Carbon Nanostructures Takanori Matsumoto and Susumu Saito
- 1P-3 Stark effect in single walled carbon nanotubes Yuji Murayama, Taishi Takenobu, Masashi Shiraishi, Yoshihiro Iwasa
- 1P-4 The axial distribution of current on multiwall carbon nanotubes Yoshihiro Hamada, Hideki Negishi, Seiji Akita, Yoshikazu Nakayama,
- 1P-5 Anisotropic optical absorption properties of SWNTs Yoichi Murakami, Erik Einarsson, Tadao Edamura, Shigeo Maruyama
- 1P-6 In-Situ Transmission Electron Microscope Study on Current Induced Sublimation of Carbon Nanotube Layers Xiaoyu Cai, Osamu Suekane, Atsuko Nagataki, Seiji Akita, Yoshikazu Nakayama
- 1P-7 Spectroscopic characterization of carrier doped single-walled carbon nanotubes by organic molecule encapsulation Masashi Shiraishi, Sufal Suwaraj, Taishi Takenobu, Yoshihiro Iwasa, Masafumi Ata
- 1P-8 Electronic Structures of Semiconducting Nanotubes Adsorbed on Metal Surfaces Susumu Okada, Atsushi Oshiyama
- 1P-9 Calculations of Electric Capacitance in Carbon Nanotubes, BN Nanotubes, and Nanographite (BN) Ribbons Kikuo Harigaya
- 1P-10 Putting carbon nanotubes on Cu(111) using pulsed-valve injection Nobuyuki Fukui, Atsushi Taninaka, Hiromichi Yoshida, Toshiki Sugai, Yasuhiko Terada, K. Miki, Seiji Heike, Masaaki Fujimori, Tomihiro Hashizume, Hisanori Shinohara
- 1P-11 Characterization of Dispersion State and Debundling Effect of Carbon Nanotubes Satoshi Kikuchi, Toshiki Sugai, Hisanori Shinohara
- 1P-12 Far-infrared spectroscopy of doped carbon nanotubes Nima Akima, Janice L. Musfeldt, Yoshihiro
- 1P-13 Energetics and Geometric Structures of Chiral Carbon Nanotubes Yoshio Akai, Susumu Saito
- 1P-14 Kataura plot based on GWA graphene dispersion Mototeru Oba, Takashi Miyake, Susumu Okada, and Shigeo Maruyama
- 1P-15 Magneto-optical spectra for single-walled carbon nanotubes Masao Ichida, Hiroyuki Wakida, Hiromichi Kataura, Yoji Achiba, Hiroaki Ando
- 1P-16 Hardness of high-pressure high-temperature treated single-walled carbon nanotubes Toshiyuki Yokomae, Nojima Yoshio, Shinji Kawasaki, Hujio Okino, Hidekazu Touhara, Hiromichi Kataura
- 1P-17 Characteristics of Raman spectra of single-wall carbon nanotubes dispersed with DNA Hironori Kawamoto, Masaru Tachibana and Kenichi Kojima
- 1P-18 Thermal conductance between an SWNT and Lennard-Jones fluid Yasuhiro Igarashi, Junichiro Shiomi, Shigeo Maruyama
- 1P-19 Stability of Single-Wall Carbon Nanotube against Deformation under Normal Pressure Masayuki Hasegawa, Kazume Nishidate
- 1P-20 Processing of carbon nanotubes utilizing low-acceleration-voltage electron irradiation damage Satoru Suzuki, Yoshihiro Kobayashi

- 1P-21 Fluorescence and Raman spectroscopy of single-walled carbon-13 nanotubes Yuhei Miyauchi, Shohei Chiashi, Shigeo Maruyama
- 1P-22 High energy-resolution electron energy-loss spectroscopy study of the electric structure of two-wall carbon nanotubes Yohei Sato, Masami Terauchi, Yahachi Saito, Riichiro Saito
- 1P-23 Diameter Dependence of Nonlinear Optical Susceptibilities in Single-Walled Carbon Nanotubes Takako Tomikawa, Yasushi Hamanaka, Arao Nakamura, Masao Ichida, Hiromichi Kataura, Yohji Achiba
- 1P-24 Optical Spectrum Changes of Isolated SWNTs Induced by Light-Assisted Chemical Treatments Minfang Zhang, Masako Yudasaka, Sumio Iijima
- 1P-25 Field-Effect and Electrochemical Transistors of MWNT, SWNT and Conducting Polymers Hidekazu Shimotani, Takayoshi Kanbara, Yoshihiro Iwasa, Kazuhito Tsukagoshi, Hiromichi Kataura
- 1P-26 Optical transition energy calculation for structure optimized single wall carbon nanotubes N. Kobayashi, R. Saito, J. Jiang, Y. Oyama, A. Gruneis, Ge. G. Samsonidze
- 1P-27 In-situ TEM Examination on Dynamic Behavior of Carbon Nanotube Field Emitters Jun-ichi Kinoshita, Kazuyuki Seko, Yahachi Saito
- 1P-28 Gas Adsorption Properties of Opened Single-Wall Carbon Nanotubes Hidekazu Hirabayashi, Hideki Sato, Yahachi Saito
- 1P-29 Saturable absorption of HiPco produced single wall carbon nanotubes Yasumitsu Miyata, Hiromichi Kataura, Youichi Sakakibara, Shun Matsuzaki, Madoka Tokumoto, Yutaka Maniwa
- 1P-30 Optical absorption and emission intensity in two types of semiconducting single wall carbon nanotubes Yuji Oyama, Riichiro Saito, J. Jiang, A. Gruneis, Sigeo Maruyama
- 1P-31 Electronic structures of carbon nanotubes having tunneling barriers Kenji Sueishi, Shigekazu Ohmori, Kazuyoshi Tanaka
- 1P-32 Two phonon Raman intensity of single wall carbon nanotubes Kentaro Sato, Riichiro Saito, A. Gruneis, J. Jiang, Takashi Shimada
- 1P-33 Temperature dependence of the RBM Raman intensity of single-wall carbon nanotube bundles Takashi Uchida, Masaru Tachibana, Kenichi Kojima
- 1P-34 Raman spectra of carbon nanotubes with different morphology Taro Ueno, Shingo Okubo, Tsuneaki Miyahara, Shinzo Suzuki, Yohji Achiba, Kazuhito Tsukagoshi, Hiromichi Kataura
- Miscellaneous**
- 1P-35 Field Emission from Stand-Alone Carbon Nanocoil Shogo Hokushin, Yasumoto Konishi, Hiroyoshi Tanaka, Lujun Pan, Yoshikazu Nakayama
- 1P-36 Electron Beam Irradiation Induced Growth of Carbon Nanostructures in Carbide Formed on Si Surfaces Akira Hida, Jun Onoe
- 1P-37 Fluorination of carbon nanotubes and characteristics of their structures Yusuke Taki, Akira Tanaka
- Nanohorns**
- 1P-38 Synthesis of Iron-Encapsulated Carbon Nanohorn and Platelet-Graphite Particles by Laser Vaporization Keita Kobayashi, Akira Koshio, Fumio Kokai
- 1P-39 Adsorption States of Organic Materials Inside Single-Wall Carbon Nanohorns M. Yudasaka, J. Fan, J. Miyawaki, S. Iijima
- 1P-40 Magnetism of multi-wall carbon nanotubes and single-wall nanohorns Shunji Bandow, Takashi Yamaguchi, Makoto Jinno, Kaori Hirahara, Masako Yudasaka, Sumio Iijima
- 1P-41 Thermal closing of small-sized holes of single-wall carbon nanohorns J. Miyawaki, M. Yudasaka, H. Yorimitsu, H. Isobe, E. Nakamura, S. Iijima
- 1P-42 Mass Production of Carbon Nanomaterials by Arc Discharge: Influences of Gas and Pressure Hiroaki Niwa, Keisuke Higashi, Guochun Xu, Hirofumi Takikawa, Kazuo Yoshikawa, Akira Kondo, Shigeo Itoh and Tateki Sakakibara
- 1P-43 Production of Hydrogen by Direct Decomposition of Methane using arc SWNHs Takashi Ina, Takashi Yamaguchi, Shunji Bandow, Sumio Iijima
- 1P-44 Recent progress on the production and characterization of metallofullerene peapods H. Shinohara, M. Ishida, T. Shimada, K. Suenaga, K. Urita, A. Gloter, A. Hashimoto, T. Okazaki, S. Iijima, H. Kato, R. Taniguchi, T. Inoue, B. Sun, D. Nishide, N. Kawakami, T. Sugai
- Carbon Nano Particles**
- 1P-45 Structure Curiosity of Micrometer-Sized Graphitic Balls Jing Fan, Masako Yudasaka, Daisuke Kasuya, Takeshi Azami, Ryota Yuge, Hideto Imai, Yoshimi Kubo, Sumio Iijima

1P-46 Raman Spectra of Carbon Nanowalls Grown by Plasma-Enhanced Chemical Vapor Deposition Satoshi Kurita, Akihiko Yoshimura, Pedro Molina-Morales, Hiroshi Nakai, Masaru Tachibana

Miscellaneous

1P-47 Human Immunodeficiency Virus-Reverse Transcriptase Inhibition Activities of Fullerene Derivatives Noriko Ikegami, Kumiko Shimotohno, Dai Nishikawa, Kyoko Takahashi, Shigeo Nakamura, Masataka Mochizuki, and Tadahiko Mashino

1P-48 Antibacterial Activity of C₆₀-(N,N-dimethylpyrrolidinium iodide) derivatives Dai Nishikawa, Kyoko Takahashi, Shigeo Nakamura, Toyoshige Endo, Masataka Mochizuki, and Tadahiko Mashino

1P-49 Charge transfer doping by fullerenes on Si surfaces Tetsuya Tada, Noriyuki Uchida, Hidefumi Hiura, and Toshihiko Kanayama

1P-50 Synthesis and Properties of Metal Boron Icosahedral Cluster Solids Takao Mori

Fullerene formation, higher fullerenes

1P-51 Carbon Cluster Distribution Studied by Matrix Isolation Spectroscopy Koji Okuda, Tomonari

January 8th, Sat

Special lecture : 25min(Presentation)+5min(discussion)

General lecture : 10min(Presentation)+5min(discussion)

Poster preview : 1min(Presentation),no discussion

General lecture (9:00-10:00)

Metallofullerenes

2-1 The 1st T_d-symmetry Fullerene: Lu₂@C₇₆(T_d) Hisashi Umemoto, Takashi Inoue, Tetsuo Tomiyama, Toshiki Sugai, Hisanori Shinohara

2-2 ¹³C NMR Study of Ce₂@C₈₀ Anion Takafumi Ichikawa, Takeshi Kodama, Yoko Miyake, Shinzo Suzuki, Korenari Higashi, Koichi Kikuchi, Yohji Achiba

2-3 The structure of di-metallofullerene, La₂@C₇₈ and Ti₂C₂@C₇₈ Eiji Nishibori, Kenichi Iwata, Makoto Sakata, Masaki Takata, Yasuhiro Ito, Atsushi Taninaka, Hiroe Moribe and Hisanori Shinohara

2-4 Electronic structures and Geometries of (Ti₂C₂)@C₇₈ Minoru Otani, Susumu Okada, Atsushi Oshiyama

Coffee Break (10:00-10:15)

General lecture (10:15-11:30)

Metallofullerenes

2-5 Orientational Switching of Endohedral Metallofullerenes Yuhsuke Yasutake, Zujin Shi, Toshiya Okazaki, Hisanori Shinohara, Yutaka Majima

Fullerene Solids

2-6 Ambipolar operation of Fullerene Transistors Yoshihiro Iwasa, Takao Nishikawa, Shinichiro Kobayashi, Tomoyuki Nakanowatari, Tadaoki Mitani, Tatuya Shimoda, Hisao Ishii, Michio Niwano,

Clathrate

2-7 Energetics of Ba₆Si₃₄ Clathrate Compound Susumu Saito

Endohedral Nanotubes

2-8 Double-wall carbon nanotubes derived from lying C₇₀-peapods Hiromichi Kataura, Takeshi Kodama, Shinzo Suzuki, Yohji Achiba, Yutaka Maniwa

2-9 A TEM Study on the Interactions between Metal Atoms and Defected Fullerene Cages in Nanopeapods Yuta Sato, Takashi Yumura, Koki Urita, Kazu Suenaga, Takashi Shimada, Hisanori Shinohara, Hiromichi Kataura, Sumio Iijima

Special lecture (11:30-12:00)

2S-4 Photoelectron Spectroscopy of Multiple Metal Atoms Encapsulated Metallofullerenes Shojun Hino

Lunch Time (12:00-13:00)

Awards Ceremony (13:00-13:30)

Special lecture (13:30-14:00)

2S-5 Why is Einstein so great? Kaoru Takeuchi

General lecture (14:00-15:00)**Fullerene Solids**

- 2-10 Structure and Properties of La-C₆₀ Fullerides Misaho Akada, Takao Yamamoto, Katsumi Tanigaki
2-11 C₆₀ Zeolite Derived from Two-Dimensional C₆₀ Polymers by High-Pressure and High-Temperature Treatment Shoji Yamanaka, Akira Kubo, Toru Inoue, Tetsuo Irifune
2-12 Synthesis of fullerene nanotubes by the liquid-liquid interfacial precipitation method Kun-ichi
2-13 *In situ* x-ray photoelectron spectroscopic and density-functional studies of Si atoms adsorbed on a C₆₀ film Jun Onoe, Aiko Nakao, and Toshiki Hara

Coffee Break (15:00-15:15)**General lecture (15:15-15:45)****Chemistry of fullerenes**

- 2-14 Organic Synthesis of Fullerene C₆₀ Encapsulating Molecular Hydrogen Michihisa Murata, Yasujiro Murata, Koichi Komatsu
2-15 Modification of close-packed surface by electron/hole injection Satoshi Fujiki, Kosuke Masunari, Hiroyuki Sugiyama, Yoshihiro Kubozono

Poster preview (15:45-16:55)**Poster session (16:55-18:25)****Miscellaneous**

- 2P-1 Fabrication and characterization of I2 doped C₆₀ fullerene blended PPV-based organic thin-film transistors Hitoya Morita
2P-2 Fabrication of Nano-Structures by C₆₀ molecules for Molecular-Nano-Device Nobuyuki Iwata, Akane Kinjo, Hideaki Sakamoto, Hiroki Okuyama and Hiroshi Yamamoto

Chemistry of fullerenes

- 2P-3 Photoinduced electron transfer in covalently linked poly(vinylcarbazole)-C₆₀ system Yasuyuki Araki, Tatsuro Midorikawa, Osamu Ito, Mamoru Fujitsuka
2P-4 Supramolecular Wrapping around Single-Walled Carbon Nanotubes with Fullerodendrons Yutaka Takaguchi, Mitsuhiro Tamura, Yasushi Yanagimoto, Sadao Tsuboi, Tetsuya Uchida, Kaoru Shimamura, Shin-Ichi Kimura, Takatsugu Wakahara, Yutaka Maeda, Takeshi Akasaka
2P-5 Supramolecular Interaction between Fullerenes and Porphyrins: Density Functional Theory Calculations Chaoyong Mang, Yukihiro Shimoi
2P-6 Synthesis of Water-Soluble Star-Fullerene Hiroshi Tategaki, Ken Kokubo, Kenji Matsubayashi,
2P-7 Synthesis of water-soluble Gd@_{2n}(OH)_m Haruya Okimoto, Masahumi Okumura, Robert D. Bolskar, J.Michael Alford, Haruhito Kato, Hisanori Shinohara
2P-8 Influence of Structure of Regioisomeric Poly-Acetalized Fullerenes on Electrochemical Properties Yoshitaka Ito, Yusuke Tajima, Yasuo Shigemitsu, Kazuo Takeuchi, Shizuka Seo, Takumi Hara, Takeshi Honma, Yumiko Yamada and Takeo Sasaki
2P-9 Synthesis of amine labeling reagents containing C₆₀ moiety for MALDI-TOF MS analysis Hiroki Tsumoto, Katsumasa Takahashi, Kohfuku Kohda, Takayoshi Suzuki, Hidehiko Nakagawa, Naoki Miyata
2P-10 Effects of hydrophilic substitution of C₆₀ on O₂^{•-} generating activity Hiroto Kaga, Kiyoshi Fujii, Takayoshi Suzuki, Hidehiko Nakagawa, Naoki Miyata
2P-11 Synthesis and Properties of [60]Fullerene Adducts Bearing Carbazole Moieties Yosuke Nakamura, Masato Suzuki, Satoru Watanabe, Jun Nishimura
2P-12 Synthesis and Characterization of High-valent Pentamethyl[60]fullerene Iridium Complexes Akihiko Iwashita, Yutaka Matsuo, Eiichi Nakamura
2P-13 Visible-light induced singlet oxygen-photooxygenation (¹O₂) of organic substrates by using silica supported [60]fullerene derivatives as reusable heterogeneous catalysts Tetsuo Hino, Takahiro Anzai, Noriyuki
2P-14 The spectroscopic properties of tri-adducts methanofullerene Yuki Hori, Tatsuo Toida, Katsumi uchida, Hirofumi Yajima, Tadahiro Ishii

- 2P-15 [60]Fullerene Glycoconjugates as Novel Artificial Glycolipids: Formation of Spherical Bilayer Vesicles and Enhanced Lectin-recognition Ability and Inhibition Activity towards Shiga Toxins Haruhito Kato, Akiko Mizuno, Tomoyuki Otake, Noboru Kaneta, Nobuyuki Fukui, Hisanori Shinohara, Yoshihiro Nishida,
- 2P-16 Preparation of C₆₀-Polyethoxysilane Hybrid Materials Yosuke Sakai, Koji Arimitsu, Takahiro Gunji, Yoshimoto Abe, and Robert West
- 2P-17 Synthesis, Spectroscopy, and Electronic Structures of the First Fullerene-Tetraazachlorin Conjugates Satoshi Masuda, Takamitsu Fukuda, and Nagao Kobayashi

Metallofullerenes

- 2P-18 Isolation and Characterization of a Carbene Derivative of Sc₃@C₈₂ Yuko Iiduka, Takatsugu Wakahara, Takahiro Tsuchiya, Yutaka Maeda, Takeshi Akasaka, Tatsuhisa Kato, Kaoru Kobayashi,
- 2P-19 ¹³C NMR Study of the Dynamics of Encaged Metal Atoms in Ce₂@C₈₀ Takeshi Kodama, Takafumi Ichikawa, Yoko Miyake, Shinzo Suzuki, Korenari Higashi, Koichi Kikuchi, Yohji Achiba
- 2P-20 Chemical Functionalization of La@C₈₂-B Takayoshi Kono, Yoichiro Matsunaga, Midori Ishitsuka, Takahiro Tsuchiya, Takatsugu Wakahara, Yutaka Maeda, Takeshi Akasaka, Tatsuhisa Kato, Naomi Mizorogi, Kaoru Kobayashi, Shigeru Nagase
- 2P-21 Structural characterization of Y@C₈₂ Lai Feng, Takatsugu Wakahara, Yongfu Lian, Takahiro Tsuchiya, Yutaka Maeda, Takeshi Akasaka, Kaoru Kobayashi, Shigeru Nagase, and Karl M. Kadish
- 2P-22 Lanthanum Endohedral Metallofulleropyrrolidines Akinori Yomogita, Takatsugu Wakahara, Baopeng Cao, Takahiro Tsuchiya, Yutaka Maeda, Takeshi Akasaka, Kaoru Kobayashi, shigeru Nagase, Tatsuhisa
- 2P-23 Synthesis and Characterization of Exohedrally Silylated Endohedral Monometallofullerene Michio Yamada, Takatsugu Wakahara, Lai Feng, Yongfu Lian, Takahiro Tsuchiya, Yutaka Maeda, Takeshi Akasaka, Tatsuhisa Kato, Kaoru Kobayashi, Shigeru Nagase
- 2P-24 Isolation and Structural Study of Hafnium- and Titanium- Carbide Metallofullerenes: (Hf₂C₂)@C₇₈ and (Ti₂C₂)@C₇₈ Hiroe Moribe, Yoko Miyake, Atsushi Taninaka, Takashi Inoue, Hisashi Umemoto, Yasuhiro Ito, Tetsuo Tomiyama, Toshiki Sugai, Yohji Achiba, Hisanori Shinohara
- 2P-25 Ultra-violet Photoemission Spectroscopy of La₂@C₇₈ Masayuki Kato, Norihiko Wanita, Shojun Hino, Kentaro Iwasaki, Daisuke Yoshimura, Hiroe Yoshie, Hisashi Umemoto, Yasuhiro Ito, Toshiki
- 2P-26 Structural Study of Ca@C₇₈ by ¹³C NMR Nao Takahashi, Tomohito Komaki, Takeshi Kodama, Yoko Miyake, Shinzo Suzuki, Koichi Kikuchi, Yohji Achiba
- 2P-27 Extraction of Endohedral Metallofullerenes Using Mixed Solvents (II) Yusuke Takasaki, Korenari Higashi, Takeshi Kodama, Shinzo Suzuki, Koichi Kikuchi, Yohji Achiba
- 2P-28 Synthesis and Magnetic Characterization of Ce₂@C₈₀-based Charge Transfer Complex Korenari Higashi, Takeshi Kodama, Yoko Miyake, Shinzo Suzuki, Takafumi Ichikawa, Koichi Kikuchi, Yohji
- 2P-29 Production and ¹³C NMR Characterization of CeLa@C₈₀ Tomohito Komaki, Takeshi Kodama, Yoko Miyake, Shinzo Suzuki, Koichi Kikuchi, Yohji Achiba
- 2P-30 Ultraviolet Photoelectron spectra of Y₂@C₈₂ Norihiko Wanita, Masayuki Kato, Kentaro Iwasaki, Shojun Hino, Daisuke Yoshimura, Takashi Inoue, Hisashi Umemoto, Toshiya Okazaki, Hisanori Shinohara
- 2P-31 Structure determination of two isomers of Eu@C₈₂ metallofullerenes Bao-Yun Sun, Toshiki Sugai, Eiji Nishibori, Kenichi Iwata, Makoto Sakata, Masaki Takata and Hisanori Shinohara
- 2P-32 Symmetry Reduction of Scandium Trimer in Sc₃@C₈₂ Kazuhiro Takeuchi, Yuko Iizuka, Takatsugu Wakahara, Takahiro Tsuchiya, Yutaka Maeda, Kaoru Kobayashi, Ryuhei Nara, Makoto Fukushima, Shigeru Nagase, Takeshi Akasaka, Tatsuhisa Kato
- 2P-33 The Structure of Lanthanide endohedral monometallofullerene, M@C₈₂ (M=La, Ce, Gd, Eu, Er, Lu) Kenichi Iwata, Eiji Nishibori, Makoto Sakata, Masaki Takata, Yasuhiro Ito, Hisashi Umemoto, Baoyun Sun

Fullerene Solids

- 2P-34 Solution-processed Organic Field-effect Transistors Based on C₆₀ Derivatives Masayuki Chikamatsu, Shuichi Nagamatsu, Yuji Yoshida, Kazuhiro Saito, Kiyoshi Yase, Koichi Kikuchi
- 2P-35 Transport Properties from C₆₀ dimmer to C₆₀ whiskers with I₂ doping Ryotaro Kumashiro, Katsumi Tanigaki, Taijyu Fujiki, Yunyan Gao, Yasujiro Murata, Koichi Komatsu, Takeshi Akasaka, Kun'ichi
- 2P-36 Fabrication and characterization of fullerene FET devices with high-dielectric gate insulator Eiji Kuwahara, Yusuke Haruyama, Takayuki Nagano, Yoshihiro Kubozono
- 2P-37 Growth of C₇₀ Fullerene Nanotubes Jun-ichi Minato, Kun'ichi Miyazawa, Tadatomo Suga

- 2P-38 Optimized reaction conditions probed by the electrical conduction in C₆₀ Masayuki Tanaka, Naohisa Miyazaki, Natsuki Sakai, Yusei Maruyama
- 2P-39 Fabrication of C₆₀ field-effect transistor with polyimide insulating layer Takayuki Nagano, Eiji Kuwahara, Yoshihiro Kubozono
- 2P-40 Temperature dependence of transient photoconductivity in C₆₀ single crystals Ryota Tanaka, Ikuko Akimoto, Ken-ichi Kan'no
- 2P-41 Vibronic Coupling Constant in C₆₀⁻ Ken Tokunaga, Tohru Sato, Kazuyoshi Tanaka
- 2P-42 Structure of Fullerene Nanowhiskers () Satoru Tsuchida, Satoru Motohashi, Hironori Ogata
- 2P-43 Structures and physical properties of metal intercalated higher fullerenes and endohedral metallofullerenes Haruka Kusai, Yoko Kashino, Rie Watanabe, Yasuhiro Takabayashi, Eiji Kuwahara, Kosuke Masunari, Takayuki Nagano, Yoshihiro Kubozono, Naomi Mizorogi, Shigeru Nagase, Susumu Okada
- 2P-44 Study on Intermolecular Interaction of C₆₀ and Simulation of Structural Phase Transition of Solid C₆₀ Yukiumi Kita, Jyun Koseki and Isamu Okada
- 2P-45 C₆₀ thin-film transistors with sub-micron scale channel Yukitaka Matsuoka, Nobuhito Inami, Eiji Shikoh, Akihiko Fujiwara
- 2P-46 Study of C₆₀ whisker by means of ESR Tomohiro Kato, Asato Ikegami, Ken-ichi Ogawa, Atsushi Hadano, Takahiko Sasaki, Nobuyuki Aoki, Yuichi Ochiai
- 2P-47 Nano-scale organic FET fabricated with carbon nanotubes Asato Ikegami, Tomohiro Kato, Ken-ichi Ogawa, Atsushi Hadano, Takahiko Sasaki, Kazunaga Horiuchi, Nobuyuki Aoki, Yuichi Ochiai
- Endohedral Nanotubes**
- 2P-48 Structural Phase Transition of Carbon Nanotubes and Nanostructured Materials: A Variable-Cell Molecular Dynamics Study Yuichiro Yamagami, Takashi Miyake, Susumu Saito
- 2P-49 Purification and Hole Opening of Carbon Nanotubes with Water and CO₂ Katsuyuki Murata, Masako Yudasaka, Jing Fan, Sumio Iijima
- 2P-50 Stable structures and magnetic properties of Fe-filled carbon nanotubes Satoshi Wakui, Takashi Miyake, Susumu Saito
- 2P-51 Fabrication and characterization of hybrid materials of DNA alternating copolymers and carbon nanotubes Megumi Iijima, Toshiaki Watabe, Shun Ishii, Akira Koshio, Shunji Bando, Takashi Yamaguchi, Sumio Iijima, Kenji Suzuki, Yusei Maruyama
- 2P-52 Evidence for potassium intercalation in carbon nano-peapod L. Guan, K. Suenaga, Z. Shi, Z. Gu, S.
- 2P-53 Electric-Field-Induced Insertion of Single-Stranded DNA into Single-Walled Carbon Nanotubes T. Okada, T. Kaneko, R. Hatakeyama, and K. Tohji
- 2P-54 Electronic Transport Properties of Alkali-Metal Encapsulated Single-Walled Carbon Nanotubes via Plasma Ion Irradiation Takeshi Izumida, Goo-Hwan Jeong, Takamichi Hirata, Rikizo Hatakeyama, Neo Yoichiro, Hidenori Mimura, Kenji Omote, Yasuhiko Kasama

January 9th, Sun

Special lecture : 25min(Presentation)+10min(discussion)

General lecture : 10min(Presentation)+5min(discussion)

Special lecture (9:00-9:30)

3S-6 Optical properties of single wall carbon nanotubes Riichiro Saito

General lecture (9:30-10:30)

Application of Nanotubes

- 3-1 Growth of Narrow Carbon Nanotubes on Metal Substrate Hiroyuki Kurachi, Sashiro Uemura, Junko Yotani, Takeshi Nagasako, Hiromu Yamada, Tomotaka Ezaki, Tsuyoshi Maesoba, Takehiro Nakao, Masaaki Ito, Yahachi Saito, Hisanori Shinohara
- 3-2 Separation of metallic SWNTs and semiconducting SWNTs Naotoshi Nakashima, Yasuhiko Tomonari, Hiroto Murakami

Formation and Purification of Nanotubes

- 3-3 Separation of Semi-conducting and Metallic Single-walled Carbon Nanotubes by DC Electro-deposition Technique Masahito Sano, Ryo Tomuro

- 3-4 Dispersion of Single-Walled Carbon Nanotube Bundles in Non-Aqueous Solution Shin-ichi Kimura, Yutaka Maeda, Yuya Hirashima, Makoto Kanda, Yongfu Lian, Takatsugu Wakahara, Takeshi Akasaka, Tadashi Hasegawa, Yuhei Miyauchi, Shigeo Maruyama, Hiromichi Kataura, Hiroshi Tokumoto, Tetsuo Shimizu, Kaoru Kobayashi, and Shigeru Nagase

Coffee Break (10:30-10:45)

Special lecture (10:45-11:15)

- 3S-7 Orbital spectroscopy and multi-level Kondo effect in carbon nanotubes Pablo Jarillo-Herrero

General lecture (11:15-12:00)

Formation and Purification of Nanotubes

- 3-5 Ab-initio Molecular Dynamics Study of Carbon Nanotube Growth Process: Chemical Effects of H₂, H₂O and O₂ Molecules Mari Ohfuti, Yuji Awano
- 3-6 Effective Production of Carbon Nanofibers via sonochemical Reaction Mariko Nakano, Akira Koshio, Fumio Kokai
- 3-7 Industrial scale production of CNF by CCVD -Catalyst research- Emi Miura, Mitsunobu Ito, Takahito Nishiyama, Yutaka Fukuyama

Lunch Time (12:00-13:00)

Special lecture (13:00-13:30)

- 3S-8 Carbon Nanotube Devices and its Applications with Ultra-High Charge Sensitivity Kazuhiko Matsumoto

General lecture (13:30-14:00)

Formation and Purification of Nanotubes

- 3-8 Controlling the Formation of Single Wall Carbon nanotubes - Comparison among Three Different Techniques - Shinzo Suzuki, Yasunori Makita, Yosuke Aoki, Hiromichi Kataura, Hiroshi Nagasawa,
- 3-9 Super-Growth: SWNT Growth Kinetics Don N. Futaba, Kenji Hata, Kohei Mizuno, Takeo Yamada, Motoo Yumura and Sumio Iijima

Poster preview (14:00-15:10)

Poster session (15:10-16:40)

Formation and Purification of Nanotubes

- 3P-1 Synthesis of Dimethylcyanomethylated Swnt by an Addition Reaction of Carbon Radicals Takahiro Gunji, Hiroyuki Ishiguro, Yosuke Sakai, Koji Arimitsu, and Yoshimoto Abe
- 3P-2 Super-Growth: How and Why Kenji Hata, Don N. Futaba, Kohei Mizuno, Takeo Yamada, Motoo Yumura, Sumio Iijima
- 3P-3 Extraction of high-quality DWNTs from alcohol CCVD-CNT samples Naoki Kishi, Tatsuki Hiraoka, Junichi Kimura, Palanisamy Ramesh, Toshiki Sugai, Hisanori Shinohara
- 3P-4 Studies on Purification Processes of Double Wall Carbon Nanotubes Hiromichi Yoshida, Toshiki Sugai, Hisanori Shinohara
- 3P-5 Low temperature single-walled carbon nanotube formation aiming for the chirality control with diffusion-plasma CVD Toshiaki Kato, Takamichi Hirata, Rikizo Hatakeyama, Kazuyuki Tohji
- 3P-6 Low temperature synthesis of vertically aligned carbon nanotubes for wiring technique by Antenna-edge Microwave Plasma CVD Tsuyoshi Yoshida, Takayuki Iwasaki, Guofang Zhong, Iwao Ohdomari,
- 3P-7 Substrate Effects on Single-Walled Carbon Nanotube Growth over Diameter-Controlled Iron Nanoparticles Kazuhiro Nakamura, Hiroki Ago, Naoyasu Uehara, Masaharu Tsuji
- 3P-8 CVD Growth of Uniform Diameter Single-Walled Carbon Nanotubes over Fe/MgO Catalyst and Their Optical Properties Shingo Imamura, Hiroki Ago, Toshiya Okazaki, Takeshi Saito, Motoo Yumura,
- 3P-9 Pore-size effect of catalyst-supporter for diameter-control of SWNT by CCVD method Hiroyuki Mori, Ko Nishizawa, Tohru Tanaka, Kenji Suzuki, Yusei Maruyama
- 3P-10 Production of multiwalled carbon nanotubes by hydrogen arc discharge evaporation of carbon electrode including boron Toshiya Kitamura, Takenori Kadoya, Xinluo Zhao, Sakae Inoue, Tsugio Okagaki,
- 3P-11 Spectral and Electron Microscopic Characterization of Functionalized Carbon Nanotubes Yongfu Lian, Yutaka Maeda, Takatsugu Wakahara, Takeshi Akasaka, Said Kazaoui, Nobutsugu Minami, Tetsuo

- 3P-12 Diameter-based Selective Extraction of SWCNT with Molecular Tweezers Naoki Komatsu, A. Ashokkumar, Kazuyuki Tominaga, Shin-ichi Tachizono, Marilyn D. Milton, Naoki Kadota, Hidemitsu Uno, Takahide Kimura, Atsuhiko Osuka
- 3P-13 Top-down control of growth point and diameter of single-walled carbon nanotubes Masahiko Ishida, Hiroo Hongo, Fumiyuki Nihey, and Yukinori Ochiai
- 3P-14 Consecutive production of carbon nanocoils by catalytic CVD Beibei Chen, Hajime Shiki, Hirofumi Takikawa, Guochun Xu, Takashi Ina, Kazuki Shimizu, Shigeo Itoh, and Tateki Sakakibara
- 3P-15 Synthesis of single-walled carbon nanotubes in the gas-phase by using size-controlled metal nanoparticle catalysts Takeshi Saito, Satoshi Ohshima, Wei-Chun Xu, Hiroki Ago, Motoo Yumura, Sumio Iijima
- 3P-16 Low Temperature Growth of Vertically Aligned Carbon Nanotubes by Thermal Chemical Vapor Deposition Goichi Takeda, Lujun Pan, Seiji Akita, Yoshikazu Nakayama
- 3P-17 Mass production of very long and vertically aligned single-walled carbon nanotubes Guofang Zhong, Takayuki Iwasaki, Iwao Ohdomari, Hiroshi Kowarada
- 3P-18 Temperature dependence of Raman scatterings from SWNTs Shohei Chiashi, Yoichi Murakami, Yuhei Miyauchi, Shigeo Maruyama
- 3P-19 Selective growth of single-wall and multi-wall carbon nanotubes from camphor on a zeolite support Yosuke Yamada, Hiroyuki Ikuno, Mukul Kumar, Yoshinori Ando
- 3P-20 Effect of Ultrasonic Vibration on CNT Production by Arc Discharge Method Hironobu Matsuo
- 3P-21 Pinpoint growth of carbon fiber and SWNT by laser chemical deposition Yuuki Uzawa, Kunimitsu Takahashi, W.-C. Xu, Toshio Kasai, Tomoyuki Yoneyama, Motoo Yumura
- 3P-22 Carbon Nanotube Growth Directly on a Glass by Grid-Inserted Plasma-Enhanced CVD at Low Temperature Yoshihiro Kojima, Shigeru Kishimoto, Yutaka Ohno, Takashi Mizutani
- 3P-23 Synthesis of Single Wall Carbon Nanotubes by Using Modified Arc Discharge Device Yasunori Makita, Shinzo Suzuki, Hiromichi Kataura, Yohji Achiba
- 3P-24 Molecular Dynamics Simulation of Nucleation of SWNT from a Metal Particle on a Substrate Yasushi Shibuta, Shigeo Maruyama
- 3P-25 FT-ICR reaction study of bimetallic clusters with alcohol and hydrocarbon Satoshi Yoshinaga, Daisuke Yoshimatsu and Shigeo Maruyama
- 3P-26 Cooling and Production Process of Carbon Clusters by Means of the Gas-Arc Method Tetsu Mieno,
- 3P-27 Synthesis of Carbon Nanotubes on Si Substrate from Alcohol Akira Watanabe, Tomoharu Tokunaga, Osamu Kato, Yasuhiko Hayashi, Shoichi Toh, Kenji Kaneko
- 3P-28 *In situ* optical measurements of the thickness of a vertically aligned single-walled carbon nanotube film during CVD growth Erik Einarsson, Tadao Edamura, Yoichi Murakami, Shigeo Maruyama
- 3P-29 The Effect of Reaction Temperature in the Carbon Nanofibers Production by CVD Method Yoshiro, Sasao, Miura, Emi, Yutaka, Fukuyama,
- 3P-30 Selective CCVD syntheses of DWNTs on boron and titanium substituted mesoporous silica support materials P. Ramesh, N. Kishi, J. Kimura, T. Sugai, K. Sato, Y. Ozeki and H. Shinohara
- 3P-31 Dispersion and purification of Single-Wall Carbon Nanotubes using biopolymers Teruo Takahashi, Catalin Romeo Luculescu, Katsumi Uchida, Hirofumi Yajima, Tadahiro Ishii
- 3P-32 Single-walled carbon nanotubes grown on natural minerals T. Shimada, S. Kawasaki, F. Okino, H.
- 3P-33 Suspended SWNTs from Catalytic-Metal Containing Organic Molecule G.-H. Jeong, A. Yamazaki, D. Takagi, M. Okuda, S. Suzuki, H. Yoshimura, Y. Kobayashi, and Y. Homma
- 3P-34 Syntheses of Carbon Nanotubes on Spin-Coated Iron Catalyst Akira Kawamoto, Masato Suzuki, and Kiyoshi Chiba¹
- 3P-35 Selective Growth of Bamboo-like and Tubular CNTs by Using PLD-catalysts Masaaki Sato, Akira Koshio, Fumio Kokai

Application of Nanotubes

- 3P-36 Application of a general formalism for calculating field emission of nanostructures to doped, capped nanotubes Mohammad Khazaei, Amir A. Farajian, Hiroshi Mizuseki, Yoshiyuki Kawazoe
- 3P-37 Transparent and Conductive SWNT-polymer films Kohei Mizuno, Kenji Hata, Don N. Futaba, Takeo Yamada, Motoo Yumura, Sumio Iijima
- 3P-38 Plastic Deformation of Carbon Nanotubes Atsuko Nagataki, Osamu Suekane, Xiaoyu Cai, Seiji Akita, Yoshikazu Nakayama
- 3P-39 Reversible Plastic Deformation of a Carbon Nanotube Osamu Suekane, Atsuko Nagataki, Xiaoyu Cai, Seiji Akita, Yoshikazu Nakayama

- 3P-40 Amorphous carbon density measurement using carbon nanotube oscillators Mitsumasa Nishio, Shintaro Sawaya, Seiji Akita, Yoshikazu Nakayama
- 3P-41 Solubilization of SWNTs in Aqueous Micelles of Sodium Cholate and Sodium Deoxycholate Ayumi Ishibashi, Naotoshi Nakashima
- 3P-42 Direct growth of carbon nanotubes on the apex of scanning tunneling microscopy probe by microwave-plasma-enhanced chemical vapor deposition Kei Tanaka, Masamichi Yoshimura and Kazuyuki Ueda
- 3P-43 Mechanical Immobilization of HeLa Cells on Aligned Carbon Nanotube Array Hiroki Ago, Ei-ichiro Uchimura, Takeshi Saito, Satoshi Ohshima, Masaharu Tsuji, Motoo Yumura, Masato Miyake
- 3P-44 Directed growth of carbon nanotubes and their field emission Keita Kakamu, Kyohei Yasuda, Mukul Kumar, Yoshinori Ando, Mineo Hiramatsu
- 3P-45 Anticancer drugs incorporation in single-wall carbon nanohorns. Kumiko Ajima, Masako Yudasaka, Alan Magine, Tatsuya Murakami, Kiyotaka Shiba, Sumio Iijima
- 3P-46 Newly developed projection microscope for evaluation of electron emission characteristics of carbon nanotube FEAs Gohei Tatsumi, Koichi Hata, Yasunori Hori, Hideki Sato, Yahachi Saito, Takashi
- 3P-47 Fabrication of DNA-CNT hybrids Kenji Suzuki, Nishizawa Ko, Yusei Maruyama
- 3P-48 Synthesis and Characterization of Porphyrin Modified Carbon Nanotubes Hiroto Murakami, Ryota Iba, Naotoshi Nakashima
- 3P-49 Carbon Nanotubes-DNA Ultra Thin Films on Substrates Ayumi Ishibashi, Shingo Okuzono, Hiroto Murakami, Naotoshi Nakashima
- 3P-50 Chirality-Dependent Interactions of Hemoglobin with SWCNTs Ken Kato, Masahito Sano
- 3P-51 Carbon Nanotube Foam and Sponge Munehiro Nabeta, Masahito Sano
- 3P-52 Solution-processed single-walled carbon nanotube transistors with a high mobility and a large On/Off ratio Tomohiro Fukao, Shuichi Nakamura, Masashi Shiraishi
- 3P-53 HR-TEM analysis of the junction structures in carbon nanotubes with mixed chirality Hideaki Wakabayashi, Yuta Sato, Kazu Suenaga
- 3P-54 Preferential Electro-deposition of Semi-conducting Single-walled Carbon Nanotubes Ryo Tomuro,
- 3P-55 Hybridization of SWNTs with DNA and Metal Nanoparticles G. -H. Jeong, S. Suzuki, Y. Kobayashi, K. Furukawa, and K. Torimitsu