

Scientific Program

Poster Presentation

May 29 (Thursday) 17:00 – 19:00

(Pacífico Annex Hall) Poster Board Size: H 2100 x W 900 mm

Poster can be displayed on the board from 13:30, May 29.

- P-01** PREPARATION AND CHARACTERIZATION OF CaSiO_3 PARTICLES USING FLUORINATED SiO_2
Kaoru Maekawa, Jae-Ho Kim, Susumu Yonezawa, Masayuki Takashima (University of Fukui)
- P-02** PREPARATION AND CHARACTERIZATION OF $\text{Li}_4\text{Ti}_5\text{O}_{12}$ USING SURFACE-FLUORINATED TiO_2
Miwa Kouno, Jae-Ho Kim, Susumu Yonezawa, Masayuki Takashima (University of Fukui)
- P-03** QUANTITATIVE CHEMICAL ANALYSIS FOR TERBIUM CONTAINING OXIDE FLUORIDE GLASSES AUGER ELECTRON SPECTROSCOPY
F. Nishimura, J. H. Kim, S. Yonezawa, M. Takashima (University of Fukui)
- P-04** HEAVILY ERBIUM-DOPED FLUOROTELLURITE GLASS FIBERS FOR 2.7 μM LASER APPLICATIONS
Guanshi Qin, Zhixu Jia, Ruosong Wang, Chuanfei Yao (Jilin University)
- P-05** MOLTEN SALT ELECTROLYTE BASED ON ALKALI (TRIFLUOROETHOXYLSULFONYL) (TRIFLUOROMETHANESULFONYL)IMIDE
Fei Xu, Cheng-Yong Liu, Wen-Fang Feng, Jin Nie, Zhi-Bin Zhou (Huazhong University of Science and Technology)
- P-06** SYNTHESIS OF $\text{Ni}_x\text{Co}_{(1-x)}\text{F}_2$ FOR LITHIUM ION BATTERIED APPLICATION
Yin Ting Teng, Rachid Yazami, Fengxia Wei (Nanyang Technological University)
- P-07** PREPARATION AND ELECTROCHEMICAL PROPERTIES OF LITHIUM-RICH LAYERED CATHODE MATERIALS CONTAINING FLUORINE
Kengo Kanbara, Kosuke Maeda, Yoshiaki Matsuo, Yasuji Muramatsu (University of Hyogo)
- P-08** PREPARATION AND CHARACTERIZATION OF CATHODE ACTIVE MATERIAL USING A FLUORINATED PRECURSOR FOR LITHIUM ION BATTERY
Shunsuke Yamada, Jae-Ho Kim, Susumu Yonezawa, Masayuki Takashima
- P-09** PROPERTIES OF INORGANIC-ORGANIC HYBRID IONIC LIQUIDS BASED ON $\text{N}(\text{SO}_2\text{F})_2$ – AS ELECTROLYTES FOR SODIUM SECONDARY BATTERIES
Takafumi Hosokawa¹, Kazuhiko Matsumoto¹, Toshiyuki Nohira¹, Rika Hagiwara¹, Koma Numata², Atsushi Fukunaga², Shoichiro Sakai², Koji Nitta², Shinji Inazawa² (¹Kyoto University, ²Sumitomo Electric Industries Ltd.)

- P-10** IRON (III) FLUORIDE SYNTHESIZED BY A FLUOROLYSIS METHOD FOR A POSITIVE ELECTRODE MATERIAL OF LIBS
Shinya Tawa, Kazuhiko Matsumoto, Rika Hagiwara (Kyoto University)
- P-11** THERMAL AND STRUCTURAL ANALYSIS OF TETRABUTYLPHOSPHONIUM AND TETRABUTYLAMMONIUM SALTS BASED ON BF₄
Ukyo Harinaga, Ryo Tanaka, Kazuhiko Matsumoto, Rika Hagiwara (Kyoto University)
- P-12** HYDROGEN ADSORPTION PROPERTIES OF SINGLE WALLED CARBON NANOTUBES MODIFIED BY ELEMENTAL FLUORINE
Y. Hattori¹, Y. Ikeyama¹, K. Takahashi², and H. Touhara¹ (¹Shinshu University, ²Institute of Research and Innovation)
- P-13** DECOMPOSITION OF PERFLUORINATED IONIC LIQUID ANIONS USING SUBCRITICAL AND SUPERCRITICAL WATER
Akihiro Takahashi, Yoshinari Noda, Takehiko Sakamoto, Hisao Hori (Kanagawa University)
- P-14** FULLEROPYRROLIDINE DERIVATIVES FOR ORGANIC PHOTOVOLTAICS: INFLUENCE OF INTRODUCED FLUORINE ATOMS ON DEVICE PERFORMANCE
Takabumi Nagai¹, Makoto Karakawa², Yutaka Ie², Kenji Adachi¹, Yoshio Aso² (¹Daikin Industries Ltd., ²Osaka University)
- P-15** DEVELOPMENT OF SILICON PHOTO-ETCHING WITH N-FLUOROPYRIDINIUM SALTS
Kenji Adachi¹, Takabumi Nagai¹, Junichi Uchikoshi², Masaki Otani², Toshinori Hirano², Kentaro Kawai², Mizuho Morita² (¹Daikin Industries, ²Osaka University)
- P-16** CRYSTAL ENGINEERING STUDY OF CONSTITUTIONALLY ASYMMETRIC DOUBLE-HEADED TRIFLUOROLACTATES
Tomohiro Hamaguchi, Keisuke Kataoka, Toshimasa Katagiri (Okayama University)
- P-17** HYDROGEN GAS STORAGE AND RELEASE BY 2.5 Åφ TUNNEL MICROPORES FORMED IN THE CRYSTALS OF DOUBLE-HEADED TRIFLUOROLACTATES
Yoshihiro Noro, Keisuke Kataoka, Toshimasa Katagiri (Okayama University)
- P-18** SYNTHESIS AND PHYSICO-CHEMICAL PROPERTIES OF 4-(2-PERFLUOROHEXY)-ETHYLTHIO-4'-X-BIPHENYL COMPOUNDS
Tomohiro Yoshida, Seiji Tsutsumi, Tomofumi Hayakawa, Masahiro Miura, Yuki Morita, Hiroaki Okamoto (Yamaguchi University)
- P-19** SYNTHESIS AND PHYSICAL PROPERTIES OF NOVEL LOW MOLECULAR-MASS ORGANIC GELATORS HAVING PERFLUOROALKYL GROUPS AT BOTH TERMINAL POSITIONS
Tomohiro Yoshida, Toru Nakamura, Yasuhiro Yamada, Yuki Morita, Hiroaki Okamoto (Yamaguchi University)

- P-20** DESIGN, SYNTHESIS AND PHOTOCYTOTOXICITY OF TRIFLUOROETHOXY-COATED PHTHALOCYANINE CONJUGATED WITH TETRAZOLE
Satoru Mori, Yang Yu-Dong, Etsuko Tokunaga, Norio Shibata (Nagoya Institute of Technology)
- P-21** SYNTHESIS OF AND PROPERTIES OF TRIFLUOROMETHYLATED PHTHALOCYANINES
Norihito Iida, Xiu-Hua Xu, Kenta Tanaka, Etsuko Tokunaga, Norio Shibata (Nagoya Institute of Technology)
- P-22** BIS(PENTAFLUOROSULFANYL)PHENYL AZIDE AS AN EXPEDITIOUS TOOL FOR CLICK CHEMISTRY TOWARD ANTITUMOR PHARMACEUTICALS
Etsuko Tokunaga, Yu-Dong Yang, Hidehiko Akiyama, Norio Shibata (Nagoya Institute of Technology)
- P-23** SYNTHESIS, STRUCTURE AND ANTIFUNGAL ACTIVITY OF FLUORINATED ORGANOBISMUTH COMPOUNDS
Mayu Ooji, Saki Tamura, Toshihiro Murafuji, Isamu Miyakawa, Katsuya Ishiguro, Keisuke Tao, Shin Kamijo (Yamaguchi University)
- P-24** SYNTHESIS OF [¹⁸F] LABELED IMAGING AGENTS FOR MGLUR5
Hiroshi Yamaguchi (Akita Research Institute for Brain and Blood Vessels)
- P-25** STUDIES ON PHOTOINDUCED DIMERIZATION/PERFLUOROALKYLATION OF ANTHRACENE
Emiko Nogami, Tomoko Yajima (Ochanomizu University)
- P-26** EFFECT OF FLUORINE ATOMS ON THERMOSTABILITY OF NEAR-INFRARED ABSORBING ORGANIC DYES
Kazumasa Funabiki, Kazutaka Yagi, Yasuhiro Kubota, Masaki Matsui (Gifu University)
- P-27** TRUE-BLUE PHOSPHORESCENCE OF NOVEL CATIONIC IRIIDIUM COMPLEXES
Keiko Fukuda, Eisuke Murotani, Yusuke Takahira, Varun Vohra, Hideyuki Murata (Asahi Glass Co., Ltd.)
- P-28** FLUOROALKYL END-CAPPED OLIGOMERS POSSESSING NON-FLAMMABLE CHARACTERISTIC IN CALCIUM CARBONATE NANOCOMPOSITES
Hideo Sawada, Tomoya Saito (Hirosaki University)
- P-29** UNIQUE PROPERTIES OF HEAD-TO-HEAD TYPE STYRENE DIMERS BEARING TWO FLUOROALKYL END-GROUPS
Masato Yoshida¹, Mari Iizuka¹, Keita Okuno², Hideo Sawada² (¹Shimane University, ²Hirosaki University)

- P-30** SYNTHESIS AND PROPERTIES OF Π -CONJUGATED POLYMERS HAVING PERFLUOROARYLENE UNIT IN THE MAIN CHAIN
Takuya Ishihara, Naoki Shida, Ikuyoshi Tomita, Shinsuke Inagi (Tokyo Institute of Technology)
- P-31** GRADUAL INTRODUCTION OF FLUORO-FUNCTIONALTY ONTO CONDUCTING POLYMER SURFACE
Shinsuke Inagi, Naoki Shida, Toshio Fuchigami (Tokyo Institute of Technology)
- P-32** LOW PERMEATION MULTI-LAYER TUBE AND HOSE FOR LEV3
Yuki Kuwajima, Kozue Komazawa (Daikin Industries, Ltd.)
- P-33** DISCLIMINANT ANALYSIS OF ETFE COPOLYMERS BY PYROLYSIS-GC/TOFMS COMBINED WITH MULTIVARIATE DATA ANALYSIS
Toshifumi Kakiuchi, Minami Kikuchi, Yoji Nakajima (Asahi Glass Co. Ltd.)
- P-34** BRONSTED ACID-CATARIZED DEHYDRATIVE CYCLOAROMATAIZATION PROMOTED IN 1,1,1,3,3,3-HEXAFLUOROPROPAN-2-OL
Ikko Takahashi, Jingchen Wang, Takeshi Fujita, Junji Ichikawa (University of Tsukuba)
- P-35** HIGHLY STEREOSELECTIVE SYNTHESIS OF VARIOUS β -FLUOROALLYLIC ALCOHOLS AND THEIR APPLICATION TO FLUOROALKENE DIPEPTIDE ISOSTERES
Natsumi Ikeda, Seiya Tanishima, Tsutomu Konno (Kyoto Institute of Technology)
- P-36** ENANTIOSELECTIVE SYNTHESIS OF FLUOROALKENE DIPEPTIDE ISOSTERES THROUGH C-F BOND FUNCTIONALIZATION
Azusa Sato, Hikaru Yanai, Hitomi Ando, Yoko Tsutsumi, Daiki Suzuki, Takashi Matsumoto, Midori Okad1, Takeo Taguchi (Tokyo Women's Medical University)
- P-37** SYNTHESIS AND APPLICATIONS OF β -(DIFLUOROMETHYL) VINYL SULFONIUM SALT
Takuya Ishikawa, Takeshi Hanamoto (Saga University)
- P-38** REGIOSELECTIVE SYNTHESIS OF CF_3 -DIHYDOROPYRROLES VIA RING-OPENING REACTION OF CF_3 -THREE-MEMBERED RINGS
Noritaka Kasai, Takeshi Hanamoto (Saga University)
- P-39** CYCLOADDITION REACTION OF 2-TRIFLUOROMETHYL-NTOSYLAZIRIDINE WITH NITRILES
Michiya Yoshiki, Rie Ishibashi, Takeshi Hanamoto (Saga University)
- P-40** THE SYNTHETIC UTILITY OF α -BROMO- α -FLUORO- β -LACTAM AS A MONOFLUORINATION TOOL
Atsushi Tarui, Ayumi Tanaka, Kazuyuki Sato, Masaaki Omote, Akira Ando (Setsunan University)

- P-41** SYNTHESIS OF 5,5,5-TRIFLUOROPENT-3-EN-1-YNES USING SONOGASHIRA CROSS-COUPPLING REACTION
Akari Ikeda, Masaaki Omote, Kana Kusumoto, Miki Tanaka, Atsushi Tarui, Kazuyuki Sato, Ando Akira (Setsunan University)
- P-42** STEREOCONTROL OF CF₃-CONTAINING ALCOHOLS VIA CLAISEN REARRANGEMENT
Kazuya Orimo, Tomoko Kawasaki-Takasuka, Takashi Yamazaki (Tokyo University of Agriculture and Technology)
- P-43** SYNTHETIC APPLICATION OF 4,4,4-TRIFLUORO-2-BUTYN-ONES
Yo Nakajima, Tomoko Kawasaki-Takasuka, Takashi Yamazaki (Tokyo University of Agriculture and Technology)
- P-44** SYNTHESIS OF GEM-DIFLUOROMETHYLENE BUILDING BLOCKS THROUGH REGIOSEWLECTIVE ALLYLATION OF GEMDIFLYOROCYCLOPROPANES
Kent Narita, Daisuke Munemori, Toshiki Nokami, Toshiyuki Itoh (Tottori University)
- P-45** AN EFFICIENT SYNTHESIS OF FLUOROALKYL-SUBSTITUTED PHTHALIDES
Masanori Inaba, Shun Shinada, Yuta Nishina, and Hideki Amii (Gunma University)
- P-46** DECARBOXYLATIVE TRANFORMATIONS FOR THE SYNTHESIS OF gem-DIFLUOROMETHYLENE COMPOUNDS
Hitomi Kimura, Eri Tomizawa, and Hideki Amii (Gunma University)
- P-47** NEW AND HIGHLY EFFICIENT DIFLUOROMETHYLATION REAGENTS FOR SP³-C NUCLEOPHILIES
Xin Wang, Guokai Liu, Etsuko Tokunaga and Norio Shibata (Nagoya Institute of Technology)
- P-48** REGIOSELECTIVE 1,4-TRIFLUOROMETHYLATION OF α , β -UNSATURATED KETONES
Satoshi Okusu, Yutaka Sugita, Etsuko Tokunaga, Norio Shibata (Nagoya Institute of Technology)
- P-49** COPPER CATALYZED TRIFLUOROMETHYLATION OF ARYL- AND VINYL BORONIC ACIDS WITH A CF₃⁺ REAGENT
Sadayuki Arimori, Norio Shibata (Nagoya Institute of Technology)
- P-50** SYNTHESIS OF CHIRAL ARYL IODINE COMPOUNDS BY NUCLEOPHILIC ENANTIOSELECTIVE TRIFLUOROMETHYLATION OF O-IODOARYL KETONES AND ITS EXTENSION FOR CHIRAL HYPERVALENT IODINE REAGENTS
Hiromi Taira, Xiu-Hua Xu, Takayuki Nishimine, Etsuko Tokunaga, and Norio Shibata (Nagoya Institute of Technology)

- P-51** ENANTIOSELECTIVE FLUORINATION OF α -BRANCHED ALDEHYDES WITH A NEW PRIMARY AMINE CATALYST
Hiroshi Morikawa, Yoshiyuki Abe, Kazutaka Shibatomi, Seiji Iwasa (Toyohashi University of Technology)
- P-52** ORGANOCATALYTIC ENANTIOSELECTIVE FLUORINATION OF α -CHLOROALDEHYDES
Takuya Okimi, Yoshiyuki Abe, Akira Narayama, Nami Nakamura, Kazutaka Shibatomi, Seiji Iwasa (Toyohashi University of Technology)
- P-53** CATALYTIC FLUORINATION REACTION USING HYPERVALENT IODINE
Kazunobu Fukushi, Satoru Suzuki, Tomohiro Kamo, Takaaki Hiramatsu, Etsuko Tokunaga, Norio Shibata (Nagoya Institute of Technology)
- P-54** DEVELOPMENT OF AROMATIC TRIHALOMETHYLATIONS BETWEEN AROMATIC GRIGNARD REAGENTS AND DIBROMODIFLUOROMETHANE
Masahiro Shiosaki, Munenori Inoue (Sagami Chemical Research Institute)
- P-55** NOVEL INTRODUCTION OF THE TETRAFLUOROETHYLENE UNIT INTO AROMATIC RINGS
Yusuke Watanabe, Tsutomu Konno (Kyoto Institute of Technology)
- P-56** NOVEL SYNTHESIS OF VARIOUS PRIMARY AMINES POSSESSING A TETRAFLUOROETHYLENE FRAGMENT
Eiichiro Yoshimoto, Tsutomu Konno (Kyoto Institute of Technology)
- P-57** FLUORINATED ZWITTERION CATALYSIS: ADDITION REACTION OF SILICON ENOLATES AND SYNTHETIC APPLICATION
Nobuyuki Ishii, Takashi Matsumoto, Hikaru Yanai (Tokyo University of Pharmacy and Life Sciences)
- P-58** CHEMOSELECTIVE MUKAIYAMA ALDOL REACTION CATALYZED BY FLUORINATED ZWITTERION
Yuichi Sasaki, Takashi Matsumoto, Hikaru Yanai (Tokyo University of Pharmacy and Life Sciences)
- P-59** A NEW EFFECTIVE SYNTHESIS OF SUBSTITUTED XANTHONES BY UTILIZING FLUOROAROMATIC COMPOUNDS
Yuuki Fujimoto, Hiroki Hoshi, Haruhito Kurokawa, Hiromi Ito, Yumina Ito, Ayano Takemura, Ryohei Itakura, Yoshio Ando, Keisuke Suzuki, Yasuo Dobashi, Hikaru Yanai, Takashi Matsumoto (Tokyo University of Pharmacy and Life Sciences)
- P-60** SYNTHESIS AND STRUCTURES OF FERROCENE COMPLEXES CONTAINING PERFLUOROCYCLOPENTENE UNIT
Hiroki Fukumoto, Takaaki Hosoya Toshio Kubota (Ibaraki University)

- P-61** PREPARATION AND STRUCTURE OF FLUORINE-CONTAINING POLYCYCLIC AROMATIC COMPOUNDS
Shogo Iwashita, Hiroki Fukumoto, Toshio Kubota (Ibaraki University)
- P-62** KINETIC RESOLUTION OF ALLYLIC FLUORIDE BY ENANTIOSELECTIVE ALLYLIC SUBSTITUTION REACTION BASED ON AILICON-ASSISTED C-F BOND CLEAVAGE
Takayuki Nishimine, Satoru Mori, Kazunobu Fukushi, Naoyuki Shibata, Hiromi Taira, Etsuko Tokunaga, and Norio Shibata (Nagoya Institute of Technology)
- P-63** SYNTHESIS OF 4,4,4-TRIFLUOROCROTONALDEHYDE AND ITS USE IN CATALYTIC ASYMMETRIC SYNTHESIS
Yohei Kawasaki, Akira Narayama, Yoshiyuki Abe, Kazutaka Shibatomi, Seiji Iwasa (Toyoashi University of Technology)
- P-64** ASYMMETRIC ALKYLATION OF α -PENTAFLUOROPHENYL CYCLIC KETONES
Kohei Matsuzaki, Kenta Okuyama, Etsuko Tokunaga, and Norio Shibata (Nagoya Institute of Technology)
- P-65** REGIOSELECTIVE SYNTHESIS OF FLUORINATED CYCLOPENTANONES VIA ORGANOCATALYTIC GENERATION OF DIFLUOROCARBENE
Ryo Takayama, Kohei Fuchibe, Junji Ichikawa (University of Tsukuba)
- P-66** REDUCTION OF CARBON-FLUORINE BONDS BY THE COMBINED USE OF $\text{Et}_3\text{SiH-TiCl}_4$
Takayuki Yamada, Kodai Saito, Takahiko Akiyama (Gakushuin University)
- P-67** STRUCTURAL PROPERTIES OF TRIFLUOROMETHYLATED AMINO ACID DERIVATIVES WITH INTRAMOLECULAR INTERACTION ABILITY
Minoru Wakia, Toshimasa Katagirib, Kenji Matsunoo, Hiroyuki Miyachia (Okayama University)
- P-68** FLUORIDE LEAVING GROUP FOR FLUOROARYLATION: CHEMISTRY OF THE LOCALIZED BIRADICAL
Shigekazu Ito, Yasuhiro Ueta, and Koichi Mikami (Tokyo Institute of Technology)