Poster Presentation / ポスター発表

Odd Number: November 30, Tuesday 12:30-13:30
Even Number: November 30, Tuesday 13:30-14:30

奇数番号：11 月 30 日（火） 12：30-13：30
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PP-01 アゾベンゼン部位を有するキラル白金錯体の立体配座と光応答性

（関西大学化学生命工）○岩田光平，伊庭真一，曽川洋光，三田文雄

"Conformation and Photoresponse of Chiral Platinum Complexes Bearing Azobenzene Moieties"

Kohei Iwata, Shinichi Iba, Hiromitsu Sogawa, Fumio Sanda (*Department of Chemistry and Materials Engineering, Faculty of Chemistry, Materials and Bioengineering, Kansai University*)

PP-02 遷移金属によって異なる磁気物性を発現するキラル磁性体の評価

（広島大院先進理工[1]，広島大キラル国際研究拠点[2]，広島大先進セ[3]，JST さきがけ[4]）○廣野恵大[1]，一樂陽司[1]，Goulven Cosquer[1，2，3]，西原禎文[1，2，3，4]，井上克也[1，2，3]

"Evaluation of chiral magnetic materials that exhibit different magnetic properties depending on transition metals"

Keita Hirono,[1] Yoji Ichiraku,[1] Goulven Cosquer,[1,2,3] Sadafumi Nishihara,[1,2,3,4] Katsuya Inoue[1,2,3] (*[1]Graduate School of Advanced Science and Engineering, Hiroshima University, [2]Hiroshima University CResCent, [3]Hiroshima University IAMR, [4]JST PRESTO*)

PP-03 $Ba(TiO)Cu_4(PO_4)_4$ におけるフェロキラル相転移の観測とキラルドメイン構造のレーザー制御

（東大新領域[1]，名工大工[2]）○林田健志[1]，木村健太[1]，漆原大典[2]，浅香透[2]，木村剛[1]

"Observation of ferrochiral transition and laser control of chiral domain structures in $Ba(TiO)Cu_4(PO_4)_4$"

Takeshi Hayashida,[1] Kenta Kimura,[1] Daisuke Urushihara,[2] Toru Asaka,[2] and Tsuyoshi Kimura[1] (*[1]Department of Advanced Materials Science, University of Tokyo, [2]Division of Advanced Ceramics, Nagoya Institute of Technology*)

PP-04 幾何構造の制御された含白金光学活性高分子の合成

（関西大化学生命工[1]，日本化学工業[2]）○堀内崇志[1]，牧野蒼也[1]，佐野夏博[2]，曽川洋光[1]，三田文雄[1]

“Synthesis of geometry-controlled platinum-containing optically active polymers”

Takashi Horiuchi,[1] Soya Makino,[1] Natsuhiro Sano,[2] Hiromitsu Sogawa,[1] Fumio Sanda[1] (*[1]Department of Chemistry and Materials Engineering, Faculty of Chemistry, Materials and Bioengineering, Kansai University, [2]R&D Division, Nippon Chemical Industrial Co., LTD*)

PP-05 ヘミアミナールエーテル構造を持つTb錯体へのキラルアルコール導入反応と錯体のキラリティー

（東邦大院理）○花香敦也，加知千裕

“Exchange reaction of chiral alcohol of Tb complexes with hemiaminal-ether structure and the chirality”

Atsuya Hanaka,[1] Chihiro Kachi-Terajima[1,2] (*[1]Department of chemistry, Graduate School of science, Toho University, [2]Department of chemistry, Faculty of science, Toho University*)

PP-06 外部刺激に応じた二重構造変換が可能なキラル Co(II)錯体の開発

（阪市大院理）○服部謙一，三枝栄子，篠田哲史，三宅弘之

“Development of a Dynamic Chiral Co(II) Complex; Dual Structural Conversion Depending on External Stimuli”

Kenichi Hattori, Eiko Mieda, Satoshi Shinoda, Hiroyuki Miyake (*Department of Chemistry, Graduate School of Science, Osaka City University*)

PP-07 アキラルなアゾベンゼン結晶への光照射による円二色性の発現と制御

（奈良女大院理）○永井佳南子，森美葉，三方裕司，松本有正

“Photo Controllable Circular Dichroism in Achiral Azobenzene Crystal”

Kanako Nagai, Miyo Mori, Yuji Mikata, Arimasa Matsumoto (*Nara Women’s University*)

PP-08 “Mapping the space groups of chiral metal formate frameworks A[M(HCOO)$_3$]s based on ionic radii ratio”

Nguyen Dong Thanh Truc,[1] Keita Hirono,[1] Goulven Cosquer,[1,2,3] Sadafumi Nishihara,[1,2,3,4] Katsuya Inoue[1,2,3] (*[1]Graduate School of Advanced Science and Engineering, Hiroshima University, [2]Hiroshima University CResCent, [3]Hiroshima University IAMR, [4]JST PRESTO*)

PP-09 時間反転対称性を有する系におけるキラリティに依存したスピン偏極現象

（東大理[1]，東大トランススケール量子科学国際連携研究機構[2]）○開田亮佑[1]，藤本純治[1]，小形正男[1，2]

“The chirality-dependent spin polarization phenomenon in systems with time-reversal symmetry”

Ryosuke Hirakida,[1] Junji Fujimoto,[1] Masao Ogata[1,2] (*[1]Department of Physics, The University of Tokyo, [2]Trans-scale Quantum Science Institute, The University of Tokyo*)

PP-10 光学活性な水溶性ポリ(フェニルアセチレン)類の水中での直接的精密合成

（金沢大院新学術[1]，金沢大院自然[2]，金沢大WPI-NanoLSI[3]）○越前健介[1]，谷口剛史[2]，西村達也[2]，前田勝浩[2，3]

“Direct and precise synthesis of optically active water-soluble poly(phenylacetylene)s in water”

Kensuke Echizen,[1] Tsuyoshi Taniguchi,[2] Tatsuya Nishimura,[2] and Katsuhiro Maeda[2,3] (*[1]Graduate School of Frontier Science Initiative, Kanazawa University, [2]Graduate School of Natural Science and Technology, Kanazawa University, [3]WPI-NanoLSI, Kanazawa University*)

PP-11 側鎖のデラセミ化に基づくポリ（ビアリールイルアセチレン）誘導体のラセン構造制御及び不斉有機触媒能の発現

（名大院工[1]，JSTさきがけ[2]，金沢大院自然[3]）○伊藤正樹[1]，安藤光香[1]，石立涼馬[1]，鈴木望[1]，井改知幸[1，2]，前田勝浩[3]，八島栄次[1]

“Emergence of Highly Enantioselective Catalytic Activity in a Helical Poly(biarylylacetylene) Mediated by Deracemization of Racemic Pendants”

Masaki Ito,[1] Mitsuka Ando,[1] Ryoma Ishidate,[2] Nozomu Suzuki,[1] Tomoyuki Ikai,[1,3] Katsuhiro Maeda,[4] Eiji Yashima[1,2] (*[1]Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, [2]Department of Molecular Design and Engineering, Graduate School of Engineering, Nagoya University, [3]JST PRESTO, [4]Graduate School of Natural Science and Technology, Kanazawa University*)

PP-12 “Direct Visualisation of Helical Structures of Poly(diphenylacetylene)s Bearing Chiral Amide Pendants by High-Resolution Atomic Force Microscopy”

Sandip Das,[1] Ayhan Yurtsever,[1] Tatsuya Nishimura,[1,2] Rafael Rodríguez,[1] Daisuke Hirose,[1,2] Kazuki Miyata,[1,2] Ayumi Sumino,[1] Takeshi Fukuma,[1,2] and Katsuhiro Maeda[1,2] (*[1]WPI Nano Life Science Institute (WPI-NanoLSI), Kanazawa University, [2]Graduate School of Natural Science and Technology, Kanazawa University*)

PP-13 クロロ置換トロパ酸の光学分割における溶媒依存キラリティースイッチング

（埼玉大院理工）○Srinivas Chandrasekaran，廣瀬卓司，小玉康一

"*"Solvent-Induced Chirality Switching"* in the Enantioseparation of Chlorine-Substituted Tropic Acids via Diastereomeric Salt Formation"

Srinivas Chandrasekaran, Takuji Hirose, Koichi Kodama (*Graduate School of Science and Engineering, Saitama University*)

PP-14 光学活性な[10][10]パラピラジノファンの合成とその絶対立体配置

（早大先進理工）○佐藤優次，宮下裕輔，鹿又宣弘

"Synthesis and the absolute configuration of an optically active [10][10]parapyrazinophane"

Yuji Sato, Yusuke Miyashita, and Nobuhiro Kanomata (*Department of Chemistry and Biochemistry, Waseda University*)

PP-15 アザペプチドの自己組織化に対するキラリティーの影響

（NIOF, Egypt[1]，Lorraine大学LCPM, France[2]，広島大学放射光[3], Lorraine大学CRM2, France[4]）○Mohamed Ibrahim[1，2，3]，Zhou Zhou[2]，Cheng Deng[2]，Claude Didierjean[4]，Regis Vanderesse[2]，Jacques Bodiguel[2]，Marie-Christine Averlant-Petit[2]，Brigitte Jamart-Gregoire[2]

"Chirality's impact on the Self-Assembly of Azapeptides"

Mohamed Ibrahim,[1,2,3] Zhou Zhou,[2] Cheng Deng,[2] Claude Didierjean,[4] Regis Vanderesse,[2] Jacques Bodiguel,[2] Marie-Christine Averlant-Petit,[2] and Brigitte Jamart-Gregoire[2] (*[1]Marine Chemistry Lab. National Institute of Oceanography and Fisheries, (NIOF), [2]Laboratoire de Chimie-Physique Macromoléculaire (LCPM), Université de Lorraine, [3]Hiroshima Synchrotron Radiation Center, Hiroshima University, [4]Laboratoire de Cristallographie, Résonance Magnétique et Modélisation, Université de Lorraine*)

PP-16 "Exploration of Biomolecularly Transparent IR Region for Structural Identification of Biomacromolecules Using VCD"

Mohamad Zarif Mohd Zubir,[1] Nurul Fajry Maulida,[1] Tohru Taniguchi,[2] and Kenji Monde[2] (*[1]Graduate School of Life Science, Hokkaido University, [2]Frontier Research Center for Advanced Material and Life Science, Faculty of Advanced Life Science, Hokkaido University*)

PP-17 白金－キラルジエン触媒によるエナンチオ選択的不斉環化反応の開発

（早大先進理工[1]，北大WPI-ICReDD[2]，JST-ERATO[3]）○田中勇成[1]，西部駿[1]，塩澤夏海[1]，髙野秀明[1，2，3]，柴田高範[1]

“Enantioselective Cyclization Using Dicationic Pt-Chiral Diene Catalysts”

Yusei Tanaka,[1] Shun Nishibe,[1] Natsumi Shiozawa,[1] Hideaki Takano,[1,2,3] Takanori Shibata[1] (*[1]School of Advanced Science and Engineering, Waseda University, [2]ICReDD, Hokkaido University, [3]JST-ERATO*)

PP-18 新規なセルロース系キラルセレクターを用いた多糖誘導体系の耐溶剤型キラルカラム（CHIRALPAK®IK）のキラル識別能力

（株式会社ダイセルCPIカンパニー）○安藤寛之，上田卓典，吉田賢一，濵嵜亮太，大西敦

“Chiral separation ability of a new immobilized column used cellulose derivative as chiral selector (CHIRALPAK®IK)”

Hiroyuki Ando, Takunori Ueda, Kenichi Yoshida, Ryota Hamasaki, Atsushi Ohnishi (*DAICEL Corporation*)

PP-19 芳香族側鎖を導入したポリ(ビフェニルイルアセチレン)誘導体のらせん構造制御とキラル固定相への応用

（名大院工[1]，JSTさきがけ[2]）○奥田省吾[1]，井改知幸[1，2]，八島栄次[1]

“Macromolecular Helicity Induction and Static Helicity Memory of Poly(biphenylylacetylene)s Bearing Aromatic Pendant Groups and Application to Chiral Stationary Phases for HPLC”

Shogo Okuda,[1] Tomoyuki Ikai,[1,2] Eiji Yashima[1] (*[1]Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, [2]JST PRESTO*)

PP-20 主鎖近傍にメトキシカルボニル基を導入したポリ(ビフェニルイルアセチレン)誘導体のらせん構造制御とスイッチングキラル固定相への応用

（名大院工[1]，JST さきがけ[2]）○都築敦史[1]，井改知幸[1，2]，八島栄次[1]

“Macromolecular Helicity Control of Poly(biphenylylacetylene)s Bearing Methoxycarbonyl Groups in the Vicinity of the Main Chains and Their Application to Switchable Chiral Stationary Phases”

Atsushi Tsuzuki,[1] Tomoyuki Ikai,[1,2] Eiji Yashima[1] (*[1]Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, [2]JST PRESTO*)

PP-21 円偏光が誘起する固体アミノニトリルの不斉増幅

（東理大理）○加瀬千寛，久保田直希，川﨑常臣

“Circularly polarized light induced asymmetric amplification of α-aminonitriles”

Chihiro Kase, Naoki Kubota, Tsuneomi Kawasaki (*Department of Applied Chemistry, Tokyo University of Science*)

PP-22 水素同位体不斉により生じるジアステレオマーの溶解度差とその不斉増幅

（東理大理）○横井凜太郎，名雪貴裕，川﨑常臣

“Quantitative difference between diastereomeric isotopomers of α-aminonitrile and its asymmetric amplification”

Rintaro Yokoi, Takahiro Nayuki, Tsuneomi Kawasaki (*Department of Applied chemistry, Tokyo University of Science*)

PP-23 光学活性なビナフチル基含有オリゴエチレングルコール鎖を側鎖に導入した水溶性ポリ（ビフェニルイルアセチレン）誘導体の合成と超遠隔不斉誘導

（名大院工[1]，JST さきがけ[2]）○中村光志[1]，水本幸助[1]，井改知幸[1,2]，八島栄次[1]

“Synthesis and Ultra-Remote Helicity Control of Water-Soluble Poly(biphenylylacetylene)s Bearing a Small Amount of Optically Active Binaphthyl-Bound Oligoethylene Glycol Pendants”

Koshi Nakamura,[1] Kosuke Mizumoto,[1] Tomoyuki Ikai,[1,2] Eiji Yashima[1] (*[1]Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, [2]JST PRESTO*)

PP-24 1,2-および 1,3-ジオール構造を有するリトコール酸誘導体の創製：酵素分割法を用いた各立体異性体の合成とビタミン D 活性

（お茶の水女子大学[1]，東京医科歯科大学生材研[2]，東京医科歯科大学難治研[3]，国立衛研[4]）○棚谷綾[1]，吉岡千咲[1]，増野弘幸[2]，沼本修孝[3]，伊藤暢聡[3]，平田尚也[4]，諫田泰成[4]，影近弘之[2]

“Development of Novel Lithocholic Acid Derivatives: Synthesis of Each Stereoisomer by Using Enzymatic Separation and The Vitamin D Activity”

Aya Tanatani,[1] Chisaki Yoshioka,[1] Hiroyuki Masuno,[2] Nobutaka Numoto,[3] Nobutoshi Ito,[3] Naoya Hirata,[4] Yasunari Kanda,[4] Hiroyuki Kagechika[2] (*[1]Department of Chemistry, Faculty of Science, Ochanomizu University, [2]Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University, [3]Medical Research Institute, Tokyo Medical and Dental University, [4]National Institute of Health Sciences*)

PP-25 CD 法による光学活性アミンの高感度キラリティ検出 : 酸塩基相互作用によるポリキノキサリンの動的らせん不斉誘起

（京都大学大学院 工学研究科）○山脇大昇，黒田拓馬，長田裕也，杉野目道紀

“Highly Sensitive Chirality Detection of Amines: Acid-Base Interaction-Driven Dynamic Helical Chirality Induction of Poly(quinoxaline-2,3-diyl)s”

Tomonori Yamawaki, Takuma Kuroda, Yuuya Nagata, Michinori Suginome (*Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engeneering, Kyoto University*)

PP-26 サリドマイドの単結晶育成とその光学的性質の測定

（早大先進理工[1]，早大院先進理工[2]，東大院工[3]，名工大院工[4]）吉良美月[1]，蔦尾滉一[2]，○チョウ コン[2]，寺沢有果菜[2]，佐藤宗太[3]，吉田知史[3]， 柴田哲男[4]，朝日透[2]

“Crystal Growth of Thalidomide and Measurement of the Optical Properties”

Mizuki Kira,[1] Koichi Tsutao,[2] Kun Zhang,[2] Yukana Terasawa,[2] Sota Sato,[3] Satoshi Yoshida,[3] Norio Shibata,[4] Toru Asahi[2] (*[1,2]School and Graduate School of Advanced Science and Engineering, Waseda University, [3]Graduate School of Engineering, The University of Tokyo, [4]Department of Nanopharmaceutical Sciences and Department of Frontier Materials, Nagoya Institute of Technology*)

PP-27 面性キラリティーを持つ[2.2]パラシクロファン誘導体の不斉分割とその結晶構造および円偏光特性

（奈良女大院理）○長谷川結，三方裕司，松本有正

“Asymmetric Resolution of [2.2] Paracyclophane Derivatives with Planar Chirality and Their Crystal Structures and CD spectrum”

Yui Hasegawa, Yuji Mikata, Arimasa Matsumoto (*Nara Women's University*)

PP-28 キラルイミダゾリジノン含有不均一系高分子担持型触媒の開発

（関西大化学生命工）○村岸茉奈歩，曽川洋光，三田文雄

“Development of heterogenous polymer-supported catalysts containing chiral imidazolidinone”

Manaho Murakishi, Hiromitsu Sogawa, Fumio Sanda (*Department of Chemistry and Materials Engineering, Faculty of Chemistry, Materials and Bioengineering, Kansai University*)

PP-29 非侵襲アミロイド線維分解カスケードの高効率化

（大分大院工[1]，大分大全学研究推進機構[2]，大分大理工[3]）○石橋康平[1]，北島浩将[1]，西口宏泰[2]，一二三恵美[2]，平尾翔太郎[3]，高橋徹[3]，大賀恭[3]，原田拓典[3]

“A non-invasive amyloid-fibrillolysis-cascade by near-IR active upconversion nanoparticles”

Kohei Ishibashi,[1] Hiromasa Kitajima,[1] Hiroyasu Nishiguchi,[2] Emi Hifumi,[2] Shotaro Hirao,[3] Toru Takahashi,[3] Yasushi Ohga,[3] Takunori Harada[3] (*[1]Faculty of Science and Technology, Graduate School of Engineering, Oita University, [2]Research Promotion Institute, Oita University, [3]Department of Integrated Science and Technology, Faculty of Science and Technology, Oita University*)

PP-30 オキサザボロリジン触媒を用いたアルケンと 1,4-ナフトキノン誘導体のエナンチオ選択的[2+2]光環化付加反応

（阪大院工）○清水菜生，森直

“Oxazaborolidine-catalyzed enantioselective [2+2] photocycloaddition of 1,4-naphthoquinone derivatives”

Nao Shimizu, Tadashi Mori (*Osaka University*)

PP-31 トリス(フェニルイソオキサゾリル)ベンゼン二量体の自己集合と負の非線形キラル応答

（広島大院先進理工）○小野雄大，平尾岳大，灰野岳晴

“Self-Assembly and Negative Non-linear Dependence of Tris(phenylisoxazolyl)benzene Hydrogen-Bonded Dimers”

Yudai Ono, Takehiro Hirao, Takeharu Haino (*Department of Chemistry, Graduate School of Advanced Science and Engineering, Hiroshima University*)

PP-32 アキラル側鎖を導入したビス(フェニルイソオキサゾリル)ベンゼン配位子をもつ白金(II)錯体の自己集合により生じる超分子ポリマーの特異な溶液物性

（広島大院先進理工）○吉田真也，平尾岳大，灰野岳晴

“Chiroptical properties of platinum (II) complexes possessing achiral bis(phenylisoxazolyl) benzene moieties”

Masaya Yoshida, Takehiro Hirao, Takeharu Haino (*Department of Chemistry, Graduate School of Advanced Science and Engineering, Hiroshima University*)

PP-33 カチオン性キラルイリジウム触媒による C-H 結合活性化を起点とした電子不足アルケンによるエナンチオ選択的分子間カップリング

（早大先進理工）○小島雅史，佐々木美桜，小野田早穂子，伊藤守，柴田高範

“Enantioselective Intermolecular Coupling with Electron-Deficient Alkenes Initiated by Cationic Chiral Iridium Catalyzed C-H Activation”

Masafumi Kojima, Mio Sasaki, Sahoko Onoda, Mamoru Ito, Takanori Shibata (*Department of Chemistry and Biochemistry, School of Advanced Science and Engineering, Waseda University*)

PP-34 酸・塩基性ピラーアレーンを用いたキラル選択的なチューブ状超分子ポリマーの形成

（京大院工[1]，奈良先端大院物質[2]，金沢大 WPI-NanoLSI[3]）○田中生悟[1]，Fa Shixin[1]，安原主馬[2]，加藤研一[1]，大谷俊介[1]，生越友樹[1,3]

“Chirality-controlling supramolecular assemblies of acidic and basic pillararenes”

Seigo Tanaka,[1] Fa Shixin,[1] Kazuma Yasuhara,[2] Kenichi Kato,[1] Shunsuke Ohtani,[1] Tomoki Ogoshi[1,3] (*[1]Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, [2]Graduate School of Materials Science, Nara Institute of Science and Technology, [3]WPI Nano Life Science Institute, Kanazawa University*)

PP-35 水蒸気を反応媒体に用いた環状ジペプチド類の合成と分光構造解析

（北大院生命[1]，道総研[2]，北大院先端生命[3]）○竹内礼夏[1]，吉田誠一郎[2]，近藤永樹[2]，松嶋景一郎[2]，谷口透[3]，門出健次[3]

“Synthesis and spectroscopic structure analysis of cyclic dipeptides using water vapor as a reaction medium”

Ayaka Takeuchi,[1] Seiichiro Yoshida,[2] Hideki Kondo,[2] Keiichiro Matsushima,[2] Tohru Taniguchi,[3] Kenji Monde[3] (*[1]Graduate School of Life Science, [2]Industrial Research Institute, Hokkaido Research Organization, [3]Frontier Research Center for Advanced Material and Life Science, Faculty of Advanced Life Science*)

PP-36 L-Lactide との分子間相互作用に基づいたポリ(キノキサリン-2,3-ジイル)の高効率らせん不斉誘起

（京都大学大学院 工学研究科）○大本佳奈，藤江峻也，山本武司，杉野目道紀

“Efficient Helical Chirality Induction of Poly(quinoxaline-2,3-diyl)s Using L-Lactide as a Readily Available Chiral Additive”

Kana Omoto, Takaya Fujie, Takeshi Yamamoto, Michinori Suginome (*Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University*)

PP-37 光照射によるキラルなアゾベンゼン結晶の円二色性の変化

（奈良女大院理）○森美葉，永井佳南子，三方裕司，松本有正

“Chiral and Racemic Azobenzene Crystals with Variable Circular Dichroism by Photo Irradiation”

Miyo Mori, Kanako Nagai, Yuji Mikata, Arimasa Matsumoto (*Nara Women's University*)

PP-38 ピリジルアルカノール誘導体を有機触媒として用いた不斉シクロプロパン化反応

（早大先進理工）○古川聖，宮下裕輔，鹿又宣弘

“Pyridyl alkanol derivatives as chiral organocatalysts for asymmetric cyclopropanation reactions”

Sei Furukawa, Yusuke Miyashita, Nobuhiro Kanomata (*Department of Chemistry and Biochemistry, Waseda University*)

PP-39 らせん構造を記憶として保持したポリ(ジフェニルアセチレン)を配位子とする二核ロジウム錯体の分子間不斉 C-H 挿入反応への応用

（金沢大院新学術[1]，金沢大院自然[2]，金沢大 WPI-NanoLSI[3]）○惣名翔大[1]，廣瀬大祐[2]，谷口剛史[2]，西村達也[2]，前田勝浩[2,3]

“Asymmetric C-H Insertion Reactions Catalyzed by Di-rhodium Complexes Coordinated with Helical Poly(diphenylacetylene) Derivatives”

Shota Sona,[1] Daisuke Hirose,[2] Tsuyoshi Taniguchi,[2] Tatsuya Nishimura,[1] Katsuhiro Maeda[2,3] (*[1]Graduate School of Frontier Science Initiative, Kanazawa University, [2]Graduate School of Natural Science and Technology, Kanazawa University, [3]Nano Life Science Institute (WPI-NanoLSI), Kanazawa University*)

PP-40 環状 α-アルキリデン β-オキソスルホンの触媒的不斉向山-Michael 反応の開発

（早大院先進理工）○杉山亮司，中田雅久

“Catalytic Asymmetric Mukaiyama-Michael Reaction of Cyclic α-Alkylidene β-Keto Sulfone”

Ryoji Sugiyama, Masahisa Nakada (*Department of Chemistry and Biochemistry, Graduate School of Advanced Science and Engineering, Waseda University*)

PP-41 量子カスケードレーザーと顕微計測技術を用いた赤外円二色性分光システムの開発

（日本分光株式会社[1]，日本大文理[2]，横浜国大院理工[3]，愛媛大院理工[4]）○小勝負純[1]，渡辺敬祐[1]，清水優[1]，吉田純[2]，川村出[3]，佐藤久子[4]

“Advanced Instrumentation by Vibrational Circular Dichroism spectrometer based on Quantum Cascade Laser and Microscopic Measurement Technology”

Jun Koshoubu,[1] Keisuke Watanabe,[1] Masaru Shimizu,[1] Jun Yoshida,[2] Izuru Kawamura,[3] and Hisako Sato[4] (*[1]JASCO Corporation, [2]Department of Chemistry, College of Humanities & Sciences, Nihon University, [3]Graduate School of Engineering Science, Yokohama National University, [4]Graduate School of Science and Engineering, Ehime University*)

PP-42 SFE による天然物中キラル成分の抽出及びキラル分離によるエナンチオマーの同定

（日本分光（株））○寺田明孝，佐藤泰世

“Extraction of chiral components in natural products by SFE and identification of enantiomers by chiral separation”

Akitaka Terada, Yasuyo Sato (*JASCO Corporation*)

PP-43 光学活性アミノ酸により不斉制御されるアニソインの動的結晶化

（千葉大工[1]，千葉大院工[2]）○宮﨑紀佳[1]，吉田泰志[2]，三野孝[2]，坂本昌巳[2]

“Asymmetric Control of Dynamic Crystallization of Anisoin by Optically Active Amino Acids”

Norika Miyazaki,[1] Yasushi Yoshida,[2] Takashi Mino,[2] Masami Sakamoto[2] (*[1]Faculity of Engineering, Chiba University, [2]Graduate School of Engineering, Chiba University*)

PP-44 かさ高い側鎖基を有するポリ(ベンゼン-1,4-ジイル)誘導体の合成と構造

（北海道大学 触媒科学研究所・大学院総合化学院[1]，統合物質創製化学研究推進機構（IRCCS）[2]）○王慶宇[1]，宋志毅[1]，坂東正佳[1]，中野環[1, 2]

“Synthesis and Structure of Optically Active Poly(benzene-1,4-diyl) Derivatives Bearing Bulky Side-chain Groups”

Qingyu Wang,[1] Zhiyi Song,[1] Masayoshi Bando,[1] and Tamaki Nakano[*1,2] (*[1]Institute for Catalysis and Graduate School of Chemical Sciences and Engineering, Hokkaido University, [2]Integrated Research Consortium on Chemical Sciences (IRCCS), Institute for Catalysis, Hokkaido University*)

PP-45 光反応と結晶化誘起デラセミ化を利用したインドリンの絶対不斉合成

（千葉大院工）○中村拓海，吉田泰志，三野孝，坂本昌巳

“Absolute asymmetric indoline synthesis involving photoreaction and crystallization-induced deracemization”

Takumi Nakamura, Yasushi Yoshida, Takashi Mino, Masami Sakamoto (*Graduate School of Engineering, Chiba University*)

PP-46 ヘリカルキラリティを有する新規ハロゲン結合供与体の開発：全フッ素ヨウ化ペリレンの合成と構造解析

（分子研[1]，総研大[2]）○大塚尚哉[1,2]，藤波武[1]，鈴木敏泰[1]，椴山儀恵[1,2]

“Synthesis and structural analysis of perfluoroiodinated perylene as novel halogen bond donor with helical chirality”

Naoya Ohtsuka,[1,2] Takeshi Fujinami,[1] Toshiyasu Suzuki,[1] Norie Momiyama[1,2] (*[1]Institute for Molecular Science, [2]SOKENDAI*)

PP-47 主鎖近傍に光学活性置換基を導入したポリ(ビフェニルイルアセチレン)誘導体の合成と不斉増幅

（名大院工[1]，JST さきがけ[2]）○森田祐己[1]，間嶋剛[1]，井改知幸[1,2]，八島栄次[1]

“Synthesis of Biphenylylacetylene-Based Copolymers Bearing Optically-Active Pendants in the Vicinity of the Main-Chain and Amplification of the Helicity”

Yuki Morita,[1] Tsuyoshi Majima,[1] Tomoyuki Ikai,[1,2] Eiji Yashima[1] (*[1]Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, [2]JST PRESTO*)

PP-48 キラル空間を有する金属配位型レゾルシンアレーンカプセルの合成

（広大院先進理工）○原田健太郎，関谷亮，灰野岳晴

“Synthesis of Resorcinarene-based Metal-Coordination Chiral Capsule”

Kentaro Harada, Ryo Sekiya, Takeharu Haino (*Advanced Science and Engineering, Hiroshima University*)

PP-49 ビスアミノメチルビナフトール触媒によるアルキリデンマロノニトリルとアクリロニトリルの不斉エポキシ化反応

（千葉大院理）○荻野衣梨，鍬野哲，荒井孝義

“Asymmetric Epoxidation of Alkylidene Malononitrile and Acrylonitrile Catalyzed by Bisaminomethylbinaphthol”

Eri Ogino, Satoru Kuwano, Takayoshi Arai (*Department of Chemistry, Graduate School of Science, Chiba University*)

PP-50 中心不斉および軸不斉をもつ P,オレフィン型不斉配位子の開発およびその利用

（千葉大院工）○神田雄介，三野孝，矢木徹，吉田泰志，坂本昌巳

“Synthesis and Application of P,Olefin Type Chiral Ligands with Central and Axial Chirality”

Yusuke Kanda, Takashi Mino, Toru Yagi, Yasushi Yoshida, Masami Sakamoto (*Graduate School of Engineering, Chiba University*)

PP-51 放射光円二色性・直線二色性・蛍光異方性による抗菌ペプチドマガイニン２の膜結合により誘起された β-sheet 凝集体の研究

（広島大学理学研究科[1]，広島大学放射光科学研究センター[2]）○熊代宗弘[1]，末永翔磨[1]，松尾光一[2]

“Membrane-induced β-sheet Oligomers of Magainin 2 Revealed by Synchrotron Radiation Circular Dichroism, Linear Dichroism, and Fluorescence Anisotropy”

Munehiro Kumashiro,[1] Shoma Suenaga,[1] and Koichi Matsuo[2] (*[1]Graduate School of Science, Hiroshima University, [2]Hiroshima Synchrotron Radiation Center, Hiroshima University*)

PP-52 光学活性ハイパーブランチ型ポリフルオレンビニレン誘導体の合成と構造およびポリマーから低分子へのキラリティートランスファー

（北海道大学 触媒科学研究所・大学院総合化学院[1]、統合物質創製化学研究推進機構（IRCCS）[2]）○吴鹏飞[1]，宋志毅[1]，坂東正佳[1]，中野環[1，2]

“Synthesis and Structure of Optically Active Hyperbranced Poly(fluorenevinylene) Derivatives and Chirality Transfer from the Polymers to Small Molecules”

Pengfei Wu,[1] Zhiyi Song,[1] Masayoshi Bando,[1] and Tamaki Nakano[*1,2] (*[1]Institute for Catalysis and Graduate School of Chemical Sciences and Engineering, Hokkaido University, [2]Integrated Research Consortium on Chemical Sciences (IRCCS), Institute for Catalysis, Hokkaido University*)

PP-53 軸不斉を有するアミドホスフィン配位子の開発とパラジウム触媒による触媒的不斉反応への応用

（千葉大院工）○髙谷香帆，三野孝，古木海翔，吉田泰志，坂本昌巳

“Amidephosphine Type Chiral Ligands with Axial Chirality for Pd-Catalyzed Asymmetric Reaction”

Kaho Takaya, Takashi Mino, Kaito Koki, Yasushi Yoshida, Masami Sakamoto (*Graduate School of Engineering, Chiba University*)

PP-54 ヘキサヒドロメタノベンゾシクロブタンを対称置換したピレン誘導体の光学的およびキロプティカル特性

（阪大院工）○齋藤幸祐，重光孟，木田敏之，森直

“Optical and Chiroptical Properties of Pyrene Derivative Symmetrically Substituted with Hexahydromethanobenzocyclobutane Units”

Kosuke Saito, Hajime Sigemitsu, Toshiyuki Kida, Tadashi Mori (*Osaka University*)

PP-55 結晶のキラリティーを利用したメソ糖の不斉非対称化

（千葉大院工）○眞田和崇、石川紘輝、吉田泰志、三野孝、坂本昌巳

“Asymmetric Desymmetrization of Meso-Sugar Using Crystal Chirality”

Kazutaka Sanada, Hiroki Ishikawa, Yasushi Yoshida, Takashi Mino, Masami Sakamoto (*Graduate School of Engineering, Chiba University*)

PP-56 糖-テルペノイド両親媒性複合体による超微細ミクロ相分離構造の構築

（北大院総合化学[1]，北大院工[2]，国立清華大[3]）○李采訓[1]，Brian J. Ree[2]，Kai Chen[3]，小牧凌也[1]，勝原哲[1]，磯野拓也[2]，山本拓矢[2]，田島健次[2]，Hsin-Lung Chen[3]，佐藤敏文[2]

“Construction of Ultrafine Microphase-separated Structure by Sugar-Terpenoid Hybrid Materials”

Chaehun Lee,[1] Brian J Ree,[2] Kai Chen,[3] Ryoya Komaki,[1] Satoshi Katsuhara,[1] Takuya Isono,[2] Takuya Yamamoto,[2] Kenji Tajima,[2] Hsin-Lung Chen,[3] Toshifumi Satoh[2] (*[1]Graduate School Chemical Sciences and Engineering, Hokkaido University, [2]Faculty of Engineering, Hokkaido University, [3]National Tsing Hua University*)

PP-57 不斉増幅を特徴とするキラルゲスト応答性らせん高分子求核触媒の開発

（京都大学大学院 工学研究科）○有木直人，藤江峻也，大本佳奈，山本武司，杉野目道紀

“Asymmetric Amplification in Chiral Guest-Responsive Nucleophilic Helical Polymer Catalysts”

Naoto Ariki, Takaya Fujie, Kana Omoto, Takeshi Yamamoto, Michinori Suginome (*Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University*)

PP-58 4,4′-ジメトキシ-1,1′-ビフェナンスレン-2,2′-ジオールの光ラセミ化および立体特異的なラセミ化阻害の機構解明

（東北大院工）○北本雄一，石山友也，金井大樹，服部徹太郎

“Investigation of mechanism for photoracemization and stereospecific racemization inhibition of 4,4′-dimethoxy-2,2′-biphenanthrene-1,1′-diol”

Yuichi Kitamoto, Yuya Ishiyama, Daiki Kanai, and Tetsutaro Hattori (*Department of Biomolecular Engineering, Graduate School of Engineering, Tohoku University*)

PP-59 ポリ(ビフェニルイルアセチレン)誘導体へのらせん誘起とそのキラル会合体を利用したキラルアンモニウム塩のキラリティセンシング

（金沢大 WPI-NanoLSI[1]，金沢大院自然[2]，名大院工[3]）○福田茉佑[1]，廣瀬大祐[2]，谷口剛史[2]，西村達也[2]，八島栄次[3]，前田勝浩[1，2]

“Chirality Sensing of Chiral Ammonium Salts Based on Helicity Induction in a Poly(biphenylylacetylene) Derivative and Its Chiral Aggregate Formation”

Mayu Fukuda,[1] Daisuke Hirose,[2] Tsuyoshi Taniguchi,[2] Tatsuya Nishimura,[2] Eiji Yashima,[3] Katsuhiro Maeda[1,2] (*[1]Nano Life Science Institute (WPI-NanoLSI), [2]Graduate School of Natural Science and Technology, Kanazawa University, [3]Graduate School of Engineering, Nagoya University*)

PP-60 新規キラルヨードニウム塩のハロゲン結合触媒作用による高立体選択的 *N*,*S*-アセタール合成

（千葉大院工）○藤村竜平，吉田泰志，三野孝，坂本昌巳

“Asymmetric Synthesis of *N*,*S*-Acetals Catalyzed by Chiral Iodonium Salts as Halogen-bonding Donor”

Tappei Fujimura, Yasushi Yoshida, Takashi Mino, Masami Sakamoto (*Graduate School of Engineering, Chiba University*)

PP-61 らせん高分子 PQX の非結合性相互作用に基づいた NMR キラルシフト試薬の開発

（京都大学大学院 研究科）○藤江峻也，山本武司，杉野目道紀

“Development of Chiral Shift Reagent Based on Nonbonding Interactions of Helically Chiral Polymer PQX”

Takaya Fujie, Takeshi Yamamoto, Michinori Suginome (*Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University*)

PP-62　カリックス[４]アレーンの自己集合により形成される水溶性三重らせんホスト分子の協同的ゲスト包接

（広島大学大学院先進理工系科学研究科）○森江将之，関谷亮，灰野岳晴

“Cooperative Guest Binding Behavior of Calix[4]arene-Based Triple-Stranded Helicate in Water”

Masayuki Morie, Ryo Sekiya, Takeharu Haino (*Department of Chemistry, Graduate School of Science, Hiroshima University*)