

## ポスターセッション第1部

9月16日(土)15:30~17:00

### 【無機/分析/環境化学】

- 1P001 Recycling technology of radioactive waste from nuclear accident(福島高専,  
(株)カサイ,長岡技科大)○内田修司,大城優,小林高臣
- 1P002 Investigation to Recovery of Cesium ion in the River water using the new  
Fibrous adsorbent(国立高専機構福島高専)○押手茂克,ヘンユーゲック,  
石井太陽
- 1P003 Chemical and biological characterization of polycyclic aromatic hydrocarbons  
(PAHs) in snow(岩手大人社)飯田智子,渡邊康平,○寺崎正紀
- 1P004 Selective conversion of isopropyl phenol and isopropenyl phenol into phenol  
using zeolite catalysis(東北大院環境,フロンティア・ラボ,東北大院理)  
○浅川将輝,熊谷将吾,亀田知人,渡辺壱,寺前紀夫,吉岡敏明
- 1P005 1,3-Bis(diethoxythiophosphinoyloxy)benzene for Pd(II) extraction from leach  
liquors of automotive catalysts(秋大院国資,秋大院理工)  
○ムニヤパンラジブガンジー,山田学,柴山敦
- 1P006 Activation of tertiary amines by cationic haloacetylene-coordinated tetrairon  
clusters(弘前大理工,弘前大院理工)○舟田涼,西谷允一,太田俊,岡崎雅明
- 1P007 Development of Nano-sized Titanium-based Oxide Electrode by  
Morphological Control(八戸高専)○風穴咲紀,長谷川章,門磨義浩
- 1P008 Activation of small organic molecules by an iridium complex possessing a  
side-on-bound phosphasilene ligand(弘前大院理工)○寺内裕哉,小黒哲明,  
太田俊,岡崎雅明
- 1P009 Synthesis of precursors of silyl-carbene chelate ligand and their reactions  
with ruthenium complexes(東北大院理)○高橋香澄,小室貴士,飛田博実
- 1P010 Preparation of hallowed  $\text{CH}_3\text{NH}_3\text{PbX}_3$  perovskite particles(山形大学院理工,  
山形大有機エレ研,北大電子研,KU Leuven,JKU,UVM)○梅本和輝,雲林院宏,  
吉田司,YumusakGidem,Clark ScharberMarkus,StadlerPhilip,WhiteMatthew  
Schuette,Sariciftci NiyaziSerdar,増原陽人
- 1P011 柔軟な構造を持つ多孔性配位高分子のゲスト分子吸着による細孔構造変化  
とアルコール吸着能(東北大院環境)○北川太郎,星野友貴,鈴木敦子,  
壹岐伸彦
- 1P012 Preparation and Characterization of Layered Nanohybrids by Self-assembly  
Reaction of Amino Acid and Metal Hydroxide(山形大院理工)佐々木はるか,  
○鏑木昂宏,多賀谷英幸

- 1P013 Influence of mid-infrared laser irradiation condition on CO<sub>2</sub> photoreduction performance with Au/TiO<sub>2</sub> catalyst(東北工業大院工)○近藤翼,丸尾容子,佐藤篤
- 1P014 Nanoscale Visualization of Redox Activity on Metallic/Semiconducting Single Walled Carbon Nanotubes(東北大院環境,東北大 AIMR,東北大 IFS)  
○志村実優,熊谷明哉,岡田健,末永智一
- 1P015 Study on development conditions for ultrathin layer chromatography using silica films prepared by a spontaneous formation method.(弘前大院理工)  
○四戸健太,北川文彦,糠塚いそし
- 1P016 Simultaneous detection of multiple neurotransmitters using microelectrode array modified with osmium redox polymer containing enzyme.(東北大院環境,東北大 AIMR)○岩間智紀,阿部博弥,井上(安田)久美,藪浩,末永智一
- 1P017 Effects of oxidative stress on acetaldehyde-related primary metabolism of *Lactobacillus*(東北大院工)○及川大樹,鶴谷篤生,中山亨
- 1P018 Principal components analysis based on elements in edible brown alga hijiki, *Sargassum fusiforme*, by EDXRFS(日大工,いわき明星大科技)○高根沢香織,菅原聖斗,石戸頌大,スツパブルツクルンファー,伊南巧音,佐々木秀明,佐藤健二
- 1P019 Development of Quantitative analysis method by Surface Enhanced Raman Scattering(日大工)○長鈴知樹,佐々木健太,沼田靖,田中裕之
- 1P020 Stripping voltammetric determination of trace cadmium by two steps stripping method(日大工)○中塚豪章,小林以弦
- 1P021 Quantitative analysis of alcohol-water solution by Raman spectroscopy (日大工)○佐々木健太,沼田靖,田中裕之
- 1P022 Removal and Recovery of gold(III) by biosorption and biomineralization using microbial cells(八戸工大院工,八戸工大工)○長根山侑人,加藤真理菜,三浦夏輝,小田島雄貴,工藤遼,菊地貴徳,前田一路,鶴田猛彦
- 1P023 Effect of dissolved aluminum species and fluoride ion on pH behavior in an acidified river environment(山形大工,山形大院理工)○遠藤光起,川口佑樹,佐々木貴史,遠藤昌敏
- 1P024 Highly Selective Precipitation of Platinum(IV) Using 2-Ethylhexylamine (秋大理工,秋大院理工)○瀬崎勇斗,山川澄人,松本和也,寺境光俊
- 1P025 Adsorption of As(III) and As(V) with SnO<sub>2</sub> under oxidative and reductive condition(山形大工,山形大院理工)○滝口浩大,栄木浩大,佐々木貴史,遠藤昌敏
- 1P026 Recovery of hydrophobic component from crude glycerol generated with BDF production(秋田大理工,秋田大院工,秋田大院理工,NKKK,NKKK)○堀江瞬,佐俣吉紀,小笠原正剛,加藤純雄,藤井健二,高砂武司

- 1P027 Pyrolysis of cellulose in the presence of polypropylene(東北大院環境)  
○高橋佑輔,熊谷将吾,亀田知人,吉岡敏明
- 1P028 Examination of the Aggregation Behavior of the Soil Particles with Various  
Polymer Flocculants(秋大院理工,三和テッキ(株))○NGUYENTHUY NGA,  
中村彩乃,中島春介,村上賢治
- 1P029 Control of Corrosion Inhibitor Concentration in an Absorption Refrigerator  
(岩手大院工)○手塚花実,八代仁

## 【物理化学】

- 1P030 フォトクロミック挙動を示す青色メロシアニン系色素(日大工,-)根本和毅,  
榎木正美,○白井佑季,鈴木克史,村瀬哲司,今関重明,加藤隆二
- 1P031 EPR イメージング法による重粒子線照射で生ずるスクロースラジカルの結晶  
内分布に関する研究(大学院保健学研究科,アプリケーション)  
○中川公一,原英之
- 1P032 Effects of humidity on lubrication properties of ionic liquid  
(岩手大工,岩手大理工)○青木一樹,七尾英孝,白井誠之
- 1P033 Preparation of iridium metal between graphite layers(岩手大工,岩手大学院総,  
岩手大理工)○加藤嵩介,天沼博耀,七尾英孝,白井誠之
- 1P034 Transport and structural studies in silver ion solid electrolytes(山形大院理工,  
山形大理)○一條泰也,菅野茉優,菊地美咲,臼杵毅,亀田恭男,天羽優子
- 1P035 Hydrogen bonds among water molecules in aqueous amino acid solutions  
studied by X-ray diffraction(山形大学理)○後藤優奈,亀田泰男,臼杵毅,  
天羽優子
- 1P036 LiTFSA 濃厚アルコール溶液中における Li<sup>+</sup>の溶媒和構造(山形大理)  
○石山裕一,亀田泰男,臼杵毅,天羽優子
- 1P037 Microscopic analysis of solvation structure of Li<sup>+</sup> in Ethylene carbonate  
solutions(山形大院理,山形大理,新潟大理)○前田隼弥,亀田恭男,臼杵毅,  
天羽優子,梅林泰宏
- 1P038 Theoretical study of the excite-state proton transfer in indigo and  
epindolidione(弘前大院理工)○伴野航大,山崎祥平
- 1P039 Theoretical study on the structure and dynamics of RNA aptamer to human  
immunoglobulin G(日大院工,JSPS 特別研究員 DC,リボミック,長大院医歯薬,  
千葉工大先進工)○吉田尚恵,関口真裕,秋田一雅,猪股恵美礼,石川岳志,  
坂本泰一,山岸賢司

- 1P040 アントラセン誘導体におけるエキシマー形成サブナノ秒ダイナミクス  
(日大工,ユニソク)○柴崎裕也,中川達央,加藤隆二
- 1P041 大気圧不活性ガス気流下での昇華法によるペリレン結晶多形の選択的成長  
(日大工)○佐藤健太,雲藤正光,加藤隆二
- 1P042 色素増感ルチル型酸化チタンにおける光電荷分離ダイナミクス(日大工)  
○西祥穂,加藤隆二
- 1P043 ホウ酸マトリックス中での紫外光照射による有機分子カチオンの生成条件  
(日大工)○岩淵隆亨,加藤隆二
- 1P044 結晶構造の異なる TiO<sub>2</sub> を用いて作製した色素増感 TiO<sub>2</sub> 膜の光誘起電子注入  
効率の比較(日大工)○阿左美圭佑,加藤隆二
- 1P045 Studies on the photo-excited triplet state of [6]helicene by time-resolved  
circular dichroism spectroscopy(東北大多元研,阪大院工)○黒沼慎,菊池陽太,  
佐藤岳仁,荒木保幸,森直,和田健彦
- 1P046 Molecular assembly structure and physical properties of -CONHC<sub>14</sub>H<sub>29</sub>  
substituted porphyrin derivatives(東北大院工,東北大多元研)○呉寛筠,  
芥川智行,星野哲久,武田貴志
- 1P047 Controls in Circularly Polarized Luminescence (CPL) and Ferroelectricity of  
Chiral Supramolecular Pyrene Assemblies(東北大院工,東北大多元研)  
○姉帯勇人,武田貴志,星野哲久,芥川智行
- 1P048 Formation of solvent clathrate molecular crystals of  
tetra[3,4]thienylenetetra-carboxylic acid(東北大院工,東北大多元研)  
○小澤優喬,武田貴志,星野哲久,芥川智行
- 1P049 Molecular Assemblies of Cation-Anion Pairs of Phenylsulfonate-substituted  
Naphthalenediimide Derivative(東北大院工,東北大多元研)  
○川崎渉,武田貴志,星野哲久,芥川智行

## 【有機化学】

- 1P050 Synthesis of Aurachins B and H(東北大院農)○高橋和暉,桑原重文,榎本賢
- 1P051 2-Hydroxytriptanthrin derivatives as fluorescent chemosensors for metal  
ions(弘前大院理工)○梁瀬晃司,笹川全愛,伊東俊司,川上淳
- 1P052 Short-Step Construction of Fused Pyridine Alkaloid Skeletons *via* Hetero  
Diels-Alder Reaction of Isotellurazoles(岩手大理工)○種市祐介,嶋田和明,  
是永敏伸

- 1P053 Protein-protein interactions analysis of flavonoid biosynthetic enzymes in snapdragon(東北大院工)○伊藤圭亮,藤野尚人,天間菜月,和氣駿之,高橋征司,中山亨
- 1P054 Anion recognition with receptors based on urea moieties and 2,2'-binaphthalene spacers(山形大理)○佐藤崇史,佐竹徳,近藤慎一
- 1P055 *anti*-*O,O'*-ビス(カルボキシメチル)-*p-H*-チアカリックス[4]アレーンの合成(石専大理工)○高橋健太,平栗浩和,鳴海史高
- 1P056 Detection of macrophage cells by RNase H activity-dependent activatable fluorescence probe(日大院工,日大工)○今泉梓,木原慶彦,市川司,根本修克,平野展孝,春木満
- 1P057 Synthesis and Wnt-signaling inhibition of novel dibenzopyranone derivatives(岩手大理工,岩手医大薬)河野富一,○阿部倫理,西谷直之,菅原葵,村岡宏樹,小川智
- 1P058 A Chiral Sulfoxide-Phosphine Ligand for Rh-Catalyzed Asymmetric 1,4-Addition of Arylboronic Acids(新潟大工,新潟大院自然)星隆,○松島翔太,藤田真茂,鈴木敏夫
- 1P059 Chemical biology of plant-microbe interaction: ER-mediated mode-of-action of bacterial infection factor coronatine(東北院理)○林謙吾,江越脩祐,石丸泰寛,高岡洋輔,上田実
- 1P060 Identification of substrates for ubiquitination by the ubiquitin ligase Dma1(日大院工)○土門崇丈,岸努
- 1P061 Synthesis and spectral properties of 2-aminotryptanthrin derivatives with benzo-fused BODIPY(弘前大院理工)○大浦晴規,伊東俊司,川上淳
- 1P062 変形菌由来ケホコリン類の合成研究(秋田大院理工)○元臼亮佑,佐藤大介,近藤良彦,秋葉宇一,藤原憲秀
- 1P063 新奇光学活性テトラアリアルルメタン誘導体の合成と不斉有機触媒への応用(日大院工,日大工)○宮堂誉生,善林拓示,玉井康文
- 1P064 Novel Indole Synthesis by Ring Expansion of Oxime Sulfonate(東北大院薬)○山下有美,今泉拓,坂田樹理,徳山英利
- 1P065 Synthesis and Characterization of Tetrathienylethylene Derivatives Functionalized with Aryl Groups(岩手大理工)村岡宏樹,○大久保晃裕,小川智
- 1P066 Synthesis of amino and azuazulenes by  $S_NAr$  reaction of haloazulenes(信州大理,弘前大院理工,愛媛大院理工,日大工)庄子卓,○杉山周平,太田哲,関口龍太,伊東俊司,奥島鉄雄,安並正文
- 1P067 Synthesis of azulene-substituted 6-aminopentaflvenes from 2-aminofurans(信州大理,弘前大院理工,愛媛大学理工)○庄子卓,永井大地,太田哲,関口龍太,伊東俊司,奥島鉄雄

- 1P068 Self-assembly of ferrocene-containing amphiphilic molecules having redox activity (レドックス応答性を有するフェロセン含有両親媒性分子の自己組織化)(山形大院理工・バイオ)○渡辺翔,王鑫,波多野豊平,村上聡,木島龍朗
- 1P069 Membrane transport of saccharides by the use of polymer membranes including calix[4]resorcinarenes(八戸高専,八戸高専)○工藤秀斗,ピンナツワナヴォダ,佐藤久美子,菊地 康昭
- 1P070 Synthesis and spectral properties of benzo-fused BODIPY derivatives (弘前大院理工)○佐々木悠太,伊東俊司,川上淳
- 1P071 Stepwise synthesis of 2,4,7-triphenylbenzo[*b*]thiophene (東北大院理,東北大院理)○三上進一,豊田耕三
- 1P072 Gold-Catalyzed Nucleophilic Addition of Terminal Acetylenes to Acetals (東北大院薬)○杉山恭子,山口南実,植田浩史,徳山英利
- 1P073 Synthesis of receptor for high selective recognition of  $\text{H}_2\text{PO}_4^-$  by multiple hydrogen bonds(山形大理)○丹野雅紀,近藤慎一
- 1P074 Computationally-led Rational Ligand Design using Interplay between Theory and Experiments: Industrially Utilizable Highly Active Chiral Rh Catalyst (岩手大院理工)○森谷咲月,佐々木遼,嶋田和明,是永敏伸
- 1P075 Developing of glycosylation reaction that proceeds under mild conditions via metal catalyzed annulation(東北大院工)○鈴木沙也果,齋藤允,李格非,野口真人,正田晋一郎
- 1P076 Synthetic Study for JBIR-141 (東北大院薬,産総研)吉田将人,○八十島浩太郎,新家一男,土井隆行
- 1P077 Synthesis of Secretoglobin 3A2 fragments using Dawson resin by Native Chemical Ligation(山形大院理工)○菊池真梨子,黒谷玲子,今野博行
- 1P078 種々の  $\beta$ -ケト酸 2-シクロアルコキシフェニルの合成と触媒的不斉マイケル反応(日大院工,日大工)○池田紀太,内藤康成,池澤佑汰郎,根司遼平,玉井康文
- 1P079 Mechanistic consideration for selective inclusion of disubstituted benzene isomers by the crystal of calix[4]arene(東北大院工)齊藤 柁,佐々木拓郎,外崎綾乃,諸橋直弥,○服部徹太郎
- 1P080 Synthetic Studies on Epidithiodiketopiperazine Alkaloid Asteroxepin (東北大院薬)○梅木奏利,黒木太一,坂田樹理,徳山英利
- 1P081 Synthesis of chitoheptaose derivatives containing an ionic group(東北大院工)○五十嵐大貴,目黒康洋,李格非,野口真人,正田晋一郎
- 1P082 Pericyclic Domino Reactions through Terminally-Fluorinated Helicenes (山形大院理,山形大理)○松田千可子,村瀬隆史
- 1P083 *In vitro* screening of PPI agonist of jasmonate co-receptor based on fluorescence anisotropy detection(東北大院理,JST さきがけ)○南雲恵奈,高岡洋輔,岩橋万奈,上田実

- 1P084 Creation of useful substances by redox control~生体触媒による有用物質の創出 2~(弘前医療福祉大,弘前大教育,弘前大農生)○長岐正彦,境谷柗人,小野幸大,相馬成滋,田中和明,本多和茂,長南幸安
- 1P085 Preparation and Electrochemistry of Phthalocyanines with Pyridylthio Groups(岩手大研究推進機構)木村毅,○工藤知子
- 1P086 Preparation and Reaction of Glycosyl Bunte Salts(東北大院工)○笹本大樹,目黒康洋,李格非,野口真人,正田晋一郎
- 1P087 Asymmetric synthesis by Grignard reaction using  $\alpha$ -keto menthol ester ( $\alpha$ -ケトメントールエステルを用いた Grignard 反応による不斉合成)(山形大院理工)○今野亜衣,田口雄也,波多野豊平,村上聡,木島龍朗
- 1P088 Synthesis and Biological Evaluation of Destruxin B Analogues(東北大院薬,中部大応用生物)吉田将人,○今野源,佐藤寛,石田恵崇,村瀬隼人,中川大,土井隆行
- 1P089 Organic-solvent-free asymmetric 1,4-addition using homogenous chiral Rh catalyst.(岩手大工,岩手大理工)○小綿凌,嶋田和明,白井誠之,是永敏伸
- 1P090 Synthesis and Dynamic Behavior of the Supercycloparaphenylene(弘大院理工)○中川雄太,関口龍太,川上淳,伊東俊司
- 1P091 Catalytic Properties of Pd(II) Complexes Ligated by Calix[4]arene Diphosphine(東北大院工)○伊藤暁人,田中信也,平澤賢悟,安田祥大,服部徹太郎
- 1P092 Enzymatic glycosylation reaction of 1,2-anhydro sugars utilizing cellulase as catalyst(東北大院工)○芹澤一成,野口真人,李格非,正田晋一郎
- 1P094 分子プローブへの展開を目指したヒドロキシクロロキンの誘導体化の検討(秋田大院理工)○成瀬貴啓,布村涉,涌井秀樹,近藤良彦,秋葉宇一,藤原憲秀
- 1P095 Optical resolution of  $\beta$ -hydroxyselenides by diastereomer derivatization using chiral auxiliary(不斉補助基を用いたジアステレオマー誘導体化法による $\beta$ -ヒドロキシセレニドの光学分割)(山形大院理工)○村上貴浩,田口雄也,波多野豊平,村上聡,木島龍朗

## 【化学工学】

- 1P096 Effect of molecular weight of host polymer on crack morphology of polymer nanocomposite thin films prepared by solution casting method(東北大院工,東北大 WPI)○中村優作,小林直登,久保正樹,庄司衛太,塚田隆夫,阿尻雅文

- 1P097 Synthesis of Ionic Liquid-based Phosphomolybdate as a Water-Tolerant Lewis Acid Catalyst for Epimerization Reaction(弘前大学理工,NJRISE)  
○バユアセプ,KarnjanakomSurachai,吉田暁弘,阿布里提,官国清
- 1P098 One-pot formation of hexyl-containing hybrid silica particles in diethylamine as catalytic reaction solvent(福島高専,福島高専)○谷地赳拓,山内紀子,車田研一
- 1P099 Effect of HZSM-5 zeolite on Decomposition of Bio-oil Model Compounds(秋大院理工)○松橋えみり,雄鹿高弘,中村彩乃,村上賢治
- 1P100 Dehydration of erythritol in high-temperature liquid water(岩手大工,岩手大学院総,岩手大理工,産総研)○高橋尚吾,本郷秀一郎,七尾英孝,佐藤修,山口有朋,白井誠之
- 1P101 超音波ビーズミル法を用いたオールウェットプロセスによる  $\alpha$ -MnO<sub>2</sub> キャパシタ電極の開発(山形大院理工,東北大院工,東北大院環境,東北大 WPI-AIMR,有機エレ研)○島村宣寛,松久保侑馬,平井裕太郎,阿部博弥,藪浩,増原陽人
- 1P102 Decomposition Kinetics of Formaldehyde by UV irradiation with Hydrogen Peroxide(秋田大院理工)○菅原悠人,加藤貴宏,大川浩一,菅原勝康
- 1P103 Selective conversion of acetic acid to hydrocarbon fuels over Cu/beta-zeolite(Hirosaki Univ.,NJRISE)○SURACHAIKARNJANAKOM,ASEPBAYU,吉田暁弘,ABULITIABUDULA,GUOQINGGUAN
- 1P104 Preparation of transit signal peptid-linked streptavidin tetramers(秋田大理工,秋田大院理工)○浅野励音,横田早希,白岩直士,福士葉粒生,福士健佑,後藤猛

## 【 高分子化学/繊維化学】

- 1P105 Direct 1,6-anhydration on the reducing ends of polysaccharides(東北大院工)  
○早坂遼平,李格非,野口真人,正田晋一郎
- 1P106 Selective introduction of dithiocarbamate group to the reducing ends of cellulose(東北大院工)○小池諒,李格非,野口真人,正田晋一郎
- 1P107 Selective azidation at the reducing ends of cellulose(東北大院工)○大野雄磨,李格非,野口真人,正田晋一郎
- 1P108 Polymer supported dehydrating agent for synthesis of sugar oxazolines(東北大学院工)○鉾建圭祐,野口真人,正田晋一郎
- 1P109 Selective activation at the reducing end of chitin converting to oxazoline(東北大院工)○伊藤康太,野口真人,正田晋一郎
- 1P110 Evaluation of water-holding ability to starch gels containing oxoacid(日大工)○星野優人,伊藤博,小林厚志

- 1P111 Complex formation between sodium alginate and n-Alkanediyl  $\alpha\omega$ -bis(N-pyridinium bromide)(日大工)○上沢七海,伊藤博,小林厚志
- 1P112 Silk sericin/poly lactide conjugates for controlled drug release (鶴岡高専)飯島政雄,太田優輔,○小野拓磨
- 1P113 Synthesis and properties of poly(tetramethylsilylenesiloxane) derivatives with thienothiophene based moiety.(日大院工,日大工)○西澤衣吹,味戸宏樹,三嶋亮仁,森平真伍,根本修克
- 1P114 Preparation and Activity Evaluation of Catalyst Using Metal Phthalocyanine for Polymer Electrolyte Fuel Cells(日大院工,日大工,クミアイ化学)○新貝昇大,涌澤尚樹,宮田峻,小林以弦,根本修克,秋本雅史,梅津一登
- 1P115 Two-Dimensional Proton Conduction Mechanism of Phosphonic Acid Group Contained Polymer Nanosheet(山形大院理工,山形大理,東北大多元研)○塚本真由,江端一輝,松井淳,山本俊介,三ツ石方也,宮下徳治
- 1P116 燃料電池膜の吸水プロセスにおける精密構造解析(山形大院有機)○佐々木健太,松葉豪
- 1P117 Structure of hybrid nanoplate composed of amphiphilic polyhedral oligomeric silsesquioxane (山形大院理工,東北大多元研,富山大院理工,名大 VBL,山形大理)○赤塚亜紗美,朱慧娥,山本俊介,三ツ石方也,宮下徳治,源明誠,永野修作,松井淳
- 1P118 Orientation of Electrooptic Chromophores Attached to Poly(aryl ether)s (山形大院有機)○阿部佳史,岡田修司
- 1P119 Toughening Improvement of Polyamide 6 with Low Molecular Weight Polyethylene(山形大院有機)○石神明,紺野拓哉,渡邊一樹,西辻祥太郎,石川優,伊藤浩志

## 【材料化学】

- 1P120 Direct adhesion between resin and metal by using injection molding(岩手大院)平原英俊,○高橋佳佑,會澤純雄,桑靜
- 1P121 Acid-base properties of organic-inorganic composite synthesized from  $\text{HCa}_2\text{Nb}_3\text{O}_{10}$  and quaternary ammonium salt(秋田大院理工,秋田大院工資)○青木正裕,伴拓人,小笠原正剛,加藤純雄
- 1P122 Direct adhesion between natural rubber and metal(岩手大工)平原英俊,○片山凧,會澤純雄,桑靜,三浦克也

- 1P123 Synthesis of Magnetic Mesoporous Iron Oxide (MMIO) and Evaluation of Its Adsorption Property(秋大院理工)○安野恵理,今井あゆみ,菅原諒祐,中村彩乃,村上賢治
- 1P124 Study on a layer by layer electroless metal deposition on plastic surface (岩手大院,華南理工大院)○陳德馨,平原英俊,會澤純雄,桑靜,康志新
- 1P125 新規合成法に基づくフタロシアニン化合物を用いた有機薄膜太陽電池の作製と評価(山形大院理工,東北大院工,東北大 WPI-AIMR,山形大有機エレ研)○土井美穂,平井裕太郎,藪浩,増原陽人
- 1P126 Study on environment-friendly electroless plating method(岩手大工)平原英俊,○土川桃子,會澤純雄,桑靜,君成田智裕
- 1P127 Preparation and characterization of charge-transfer complex nanocrystals and their application for organic solar cells.(山形大学院理工,山形大有機エレ研,JKU,UVM)○武田将貴,松井淳,ScharberMarkus Clark,StadlerPhilip,YumusakGigdem,SariciftciNiyazi Serdar,WhiteMatthew Schuette,吉田司,増原陽人
- 1P128 Synthesis and characterization of silane coupling modified layered double hydroxide/natural rubber composite(岩手大理工)三上水輝,○折館智輝,會澤純雄,桑靜,平原英俊
- 1P129 Study on adhesion of natural rubber and copper alloy plate composites (岩手大院,VIPO)平原英俊,○邢弘博,會澤純雄,桑靜,三浦克也,オラベックヤン
- 1P130 Dehydration of xylose over CHA zeolite: Effect of surface structure of CHA zeolite (岩手大工,岩手大学院総,岩手大理工,産総研)○松本智紘,金内良介,七尾英孝,佐藤修,佐藤剛一,長谷川泰久,清住嘉道,山口有朋,白井誠之
- 1P131 The synthesis of copper/resin composites by electroless plating method (岩手大工)平原英俊,○田代結女,會澤純雄,桑靜,グエンティタンデュオン
- 1P132 A new host material aluminum lithium fluoride oxide for Ce<sup>3+</sup> blue phosphor (山形大工,山形大院理工,静岡大工,静岡大電工研)○田村豪人,高橋秀明,松嶋雄太,小南裕子,原和彦
- 1P133 シラン系自己組織化単分子膜の作製と有機薄膜トランジスタへの応用 (岩手大生技研,岩手大研究推進機構,岩手大理工)○西川尚男,木村毅,村岡宏樹,小川智,長田洋

## 【電気化学】

- 1P134 Simultaneous imaging of enzyme and respiratory activities in osteoblast differentiation using an LSI-based electrochemical device(東北大院工, 日本航空電子)○小野寺岳大,伊野浩介,須田篤史,國方亮太,珠玖仁
- 1P135 Three dimensional electrochemical patterning of calcium alginate hydrogels for tube and sheet structure(東北大院工)○平典子,伊野康介,珠玖仁
- 1P136 Oxidative decomposition of  $\text{NH}_3\text{BH}_3$  to  $\text{H}_2$  by organo-photocatalyst responding to the entire visible-light energy(弘前大院理工,東工大化生研)○藤根健太郎,長井圭治,阿部敏之
- 1P137 Influence of Noble Metal Catalyst on Electrochemical properties of Lithium-Air Secondary Batteries(岩手大院,ALCA-SPRING, JST)  
竹口竜弥,○主濱亮子,小島三由紀,宇井幸一
- 1P138 Synthesis of low-loading platinum catalyst supported on carbon with different pore structures(岩手大院)竹口竜弥,○稻葉健太,宇井幸一
- 1P139 Electropolishing of niobium in a sulfuric acid solution(岩手大院,岩手大学理工, マルイ鍍金,KEK)○白取凌,川村翔磨,鈴木映一,吳松竹,八代仁,仁井啓介,文珠四郎秀昭
- 1P140 Evaluation of OER and ORR Activity of Pt supported  $\text{NaCo}_2\text{O}_4$  Catalyst (岩手大院工)竹口竜弥,○川上航人,宇井幸一
- 1P141 Influence of Electrolytic Conditions on Properties of Electrolytic Aluminum Foil Using  $\text{AlCl}_3$ -EMIC Melt(岩手大院工,大阪大院工,(株)UACJ)宇井幸一,○小林哲士,竹口竜弥,津田哲哉,本川幸翁,布村順司,児島洋一
- 1P142 Honeycomb Films Composed of  $\alpha\text{-MnO}_2$  Nanoparticles for Supercapacitor Electrodes(山形大院理工,東北大院工,東北大院環境,東北大 WPI-AIMR, 山形大有機エレ研)○松久保侑馬,平井裕太郎,阿部博弥,藪浩,増原陽人
- 1P143 水系電解液中におけるリチウムイオン二次電池正極活物質の電気的性質 (山形大工,山形大院理工)○荒川凌志,赤間未行,石川智士,伊藤智博,立花和宏,仁科辰夫
- 1P144 Detection of protein in urine using electrochemical sensor without addition of reagents(東北大院環境)○三浦翼,井上(安田)久美,末永智一
- 1P145 composite cathode ( $\text{Ce}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.3}\text{Fe}_{0.7}$ )-LSGM for intermediate temperature solid oxide fuel cells(Hirosaki Univ.,NJRISE)○XIAOKAITIPAIRUZHA,TaoYu,吉田暁弘,官国清,AbulitiAbudulla