

ポスターセッション第 1 部

9 月 17 日(土)15:30~17:00

【無機/分析/環境化学】

- 1P001 Development of UV-VIS-diffuse-reflectance spectroscopy system and in situ observation of the formic acid dehydrogenation(筑波大院,産総研)○李日升,川波肇,小平哲也
- 1P002 Nanosheet-state cobalt-manganese oxide with multifarious active regions derived from oxidation-etching of MOF precursor for catalytic combustion of toluene(弘大理工学研究科,弘大地域戦略研究所)○趙井崗,阿布里提,官国清
- 1P003 Synthesis of a Tris(indolyl)-coordinated Titanium Amido Complex and Its Application to Catalytic Hydroamination of Carbodiimides(弘前大理工,弘前大院理工)○木村和希,畑中励介,岡崎雅明,太田俊
- 1P004 Debromination mechanism in Alkali / Diol on Waste Printed Circuit Boards(東北大院環,DMM)○下村亘,齋藤優子,熊谷将吾,亀田知人,中川原聡,堀内章芳,渡邊宏満,吉岡敏明
- 1P005 Development of pyrolysis-gas chromatograph/multi-detector system and application to rapid screening of co-pyrolysis conditions(東北大院環境,東北大学高等研究機構新領域創成部,フロンティア・ラボ,東北大院理)○山口颯斗,安達若菜,熊谷将吾,齋藤優子,亀田知人,佐藤眞純,渡辺壱,寺前紀夫,渡辺忠一,吉岡敏明
- 1P006 Thermoelectric conversion property of transparent and colorless solution-processed CuI films(山形大院理工)○村松広大,石崎学,栗原正人
- 1P007 Evaluation of angiogenic capacity and respiratory activity during bone differentiation of mesenchymal stem cell spheroids(東北大院環境,東北大院工)○今野杏,伊野浩介,珠玖仁
- 1P008 Evaluation of gas sensing performance of WS_2-WO_3 synthesized by solvothermal process(東北大院環境,東北大多元研)○吉澤千夏,長谷川拓哉,殷シュウ
- 1P009 Tracking of the thermal isomerization of unsaturated fatty acids using Raman spectroscopy(日大工)○渡部晃広,矢部凌輔,沼田靖
- 1P010 球状中空 SiO_2 担持 Ni 触媒の調製条件が *p*-ニトロフェノールに及ぼす影響(一関高専,日本大学)○佐藤温大,外山直樹,古川茂樹,照井教文
- 1P011 簡易可視分光光度を用いた As(III)定量(日大院工,日大工)○帯金一樹,佐藤公俊
- 1P012 Reduction of Nitriles by Lithium Aluminum Hydride with a Bulky Alkyl Group: Formation of Lithium Imino-aluminum Clusters(東北大院理)○大塚哲也,長田浩一,橋本久子

- 1P013 色素増感太陽電池の変換効率向上を志向したルテニウム色素分子の設計 (福島大院理工,福島大理工)○田村千尋,高瀬つぎ子,大山大
- 1P014 Preparation of Robust Polypyridylruthenium Complexes for the Functional Emergence of Coenzyme NAD(福島大院理工,福島大理工)○馬場大輔,高瀬つぎ子,大山大
- 1P015 Development of fluorescent sensor for acetaldehyde detection(東北工大院工)○小野薫,丸尾容子
- 1P016 にんにく栽培におけるさび病発生圃場の土壌特性の評価(八戸工大 工,八戸工大感性デザイン)○太田拓海,藤原瑞樹,宮崎滉平,後藤厚子,片山裕美
- 1P017 ナノカルシウムによる土壌中カドミウム、鉛、及びヒ素の迅速不溶化(県広大生命環境,県広大院総合学術,八戸工大工)○獅子田和樹,今坂祐作,片山裕美,三苦好治
- 1P018 ミュオンビームの固体水素内における挙動の数値シミュレーション(東北大理,中部大工,JAEA,KEK,理研)○小西蓮,奥津賢一,中島良太,佐々木喬祐,木野康志,山下琢磨,岡田信二,外山裕一,下村浩一郎,StrasserPatrick,反保元伸,永谷幸則,名取寛顕,三宅康博,石田勝彦,宮下湖南,安田和弘,佐藤元泰,岡壽崇,河村成肇,神田聡太郎,竹下聡史,土居内翔伍,西村昇一郎, Amba Pant
- 1P019 Position-Dependent Analysis of Spontaneous Capillary-Wave Resonance for Reproducible Optical Surface Tension Measurement(東北大多元研,東北大理)○BaptistaCarlos,玄大雄,Derrick M.Mott,火原彰秀
- 1P020 Copper plating on polytetrafluoroethylene (PTFE) surface by introducing functional groups(岩大院)○神尚太,桑静,會澤純雄,平原英俊
- 1P021 Aggregation of bentonite and magnetite with polysaccharide and application to high-gradient magnetic separation(秋大院理工)○南波亮太,村上賢治,中村彩乃
- 1P022 ナノ構造を有する半導体表面における赤外吸収の増強(弘大教育,弘大院理工,京大化研)○島田透,生田咲智,鈴木裕史,塩谷暢貴,下赤卓史,長谷川健
- 1P023 ポリオールプロセスを用いた FeNi 合金微粒子合成の研究 反応温度と組成の関係(一関高専,東北大金研)○志田幸祐,大嶋江利子,杉山和正

【物理化学】

- 1P024 In-situ observation of lubricating film formed by fatty acid-containing oil using micro Infrared spectroscopy(一関高専,岩手大)○加納源,佐々木真由,滝渡幸治,七尾英孝,星靖,二階堂満
- 1P025 Aggregation behavior and nanoparticles synthesis in water/supercritical CO₂ mixtures with fluorine-free nonionic amphiphiles(弘前大院理工,スオングー大,ブリストル大)○飯塚大登,新田雄大,シュリンアレクサンダー,イーストージュリアン,鷺坂将伸

- 1P026 Proton-transferred Salts between *o*-Phenylenediamine-fused Crown Ether and Aromatic Sulfonic Acid(東北大院工,東北大多元研,新潟大院自然)○清水裕太,武田貴志,星野哲久,芥川智行
- 1P027 Optical, Redox Properties and Molecular Assembly Structures of Tetrathienylene Derivatives(東北大院工,東北大多元研)○齋藤元輝,武田貴志,芥川智行
- 1P028 Molecular dynamics study on vibrational energy redistribution in H₃O⁺Ar(東北大理,東北大院理)○小柴拓実,小湊瑞央,伊藤悠吏,菅野学,大下慶次郎,美齊津文典
- 1P029 Development of novel radiochromic materials based on fluoran dyes(東北大院工,静岡大)○遠藤寿弥,越水正典,藤本裕,浅井圭介
- 1P030 Formation Mechanism of Helical Liesegang Patterns(山形大院理工,山形大理)○對馬琴梨,板谷昌輝,並河英紀
- 1P031 The lowest frequency mode of the Raman Susceptibility of N-Methyl-2-pyrrolidinone(山形大学院理,山大理)○小坐間孔志,今井陸人,天羽優子,亀田恭男,臼杵毅
- 1P032 Relationship between change in intramolecular structure of D₂O molecule and O-D stretching frequency of HDO molecule in the liquid state(山形大院理工,高工ネ研)○強口岬,亀田恭男,天羽優子,臼杵毅,池田一貴,大友季哉

【有機化学】

- 1P033 Tryptanthrin Derivatives as FRET-based Fluorescent Chemosensors for Metal ions(弘前大院理工)○高橋剛矢,関口龍太,伊東俊司,川上淳
- 1P034 Tryptanthrin Derivatives as AIE-based Fluorescent Chemosensors for Metal Ions(弘前大院理工)○玉村幸成,関口龍太,伊東俊司,川上淳
- 1P035 Synthesis and Photophysical Properties of Tryptanthrin Derivatives with Bulky Substituents (弘前大院理工)○棟方祐貴,関口龍太,伊東俊司,川上淳
- 1P036 Azulene End-Capped 1,3,4-Thiadiazoles: Physical Properties, Crystal Structures, and n-Type Semiconducting Properties(山形大院理工,山形大院有機)○渋谷勇助,松永周,熊木大介,時任静士,片桐洋史
- 1P037 Synthesis, Structural and Spectroscopic Characterization of AIEgen Using Tetrahydrotetrathienoheptafulvalene Skeleton(岩手大理工)○笠島彩那,村岡宏樹
- 1P038 Heteroditopic receptors bearing phosphoric triamides for anion recognition(山形大学院理工,山形大理)○結城優斗,近藤慎一
- 1P039 Synthesis and Properties of Curved Kekulene Derivatives.(岩手大院理工)○村上英之,岩瀨潤樹,葛原大軌
- 1P040 反芳香族性を示すジチエノピラシレンの合成(岩手大院総)○笹華奈乃,葛原大軌

- 1P041 Synthesis and Optical Properties of Azulene-fused Phenalenone Derivatives(信州大院理,日大工)○阪田尚子,太田哲,庄子卓
- 1P042 Viscous effects and structures of ionic bora surfactants with ferrocene moieties(山形大院理工)○茂原虎勢,武田悠希,波多野豊平,木島龍朗
- 1P043 Viscoelasticity control by redox reaction using ionic Bola-type ferrocene surfactant(イオン性 Bola 型フィロセン界面活性剤のレドックス反応による粘弾性制御)(山形大院理工)○李偉,武田悠希,神保雄次,波多野豊平,木島龍朗
- 1P044 Aerobic Oxidative Dealkylation of tert-Amines Promoted by Oxoammonium Species(東北大院薬)○嶋林春樹,笹野裕介,佐々木稜太,岩淵好治
- 1P045 Efficient Synthesis of Toviaz via Organic Solvent-free Rh-catalyzed Asymmetric 1,4-Addition(岩手大院理工,関東化学(株))○岡本岳,片山武昭,是永敏伸
- 1P046 Pd-catalyzed Selective C-H Activation Vinylation of Azulenes at the 1,3-Positions by Utilizing Heteroaromatics as a Directing group(弘前大院理工)○伊藤雄大,伊丹脩人,萩尾周平,関口龍太,川上淳,伊東俊司
- 1P047 Highly efficient azulene ring-bonding reaction using Pd-catalyzed C-H activation reaction(弘前大院理工)○萩尾周平,伊丹脩人,伊藤雄大,関口龍太,伊東俊司,川上淳
- 1P048 Synthesis and Evaluation of Silicon Compounds Having Naphthyl Groups(山形大院理工,山形大理)○安倍志織,近藤慎一
- 1P049 Synthesis and Reactivity of Ir-supported Hybrid Polymer Catalysts for Formic Acid Dehydrogenation(筑波大院,産総研)○澤原馨登,川波肇
- 1P050 Synthesis of cardiotoxic steroids and evaluation of their attractant activity to toads(岩手大理工,酪農学園大農食)○中崎敦夫,原村隆司,藤田涼斗
- 1P051 Synthetic Study of Iridium-BNNB Complexes and Their Activity toward Simple Hydrocarbons(東北大院薬,東北大学際研)田原淳士,○深川寛太,土井隆行
- 1P052 Synthetic Studies on Aspernomine(東北大院薬)寺地穂果,○三原大輝,若原裕子,植田浩史,徳山英利
- 1P053 [2+2+2]環化付加を基盤とするジズアミン B の合成研究(秋田大院理工)○広橋達也,高木絵梨,藤原憲秀
- 1P054 SARS-CoV2 増殖必須蛋白質 3CL protease の作製と基質認識能の評価(山形大院理工学研究所)○遠藤龍生,及川慧人,佐野陽菜,真壁幸樹,矢野成和,今野博行
- 1P055 Development of novel threaded structure-forming nucleic acids with the ability of slipping direction control and their mechanism elucidation(東北大多元研,東北大院理)○桑原和貴,鬼塚和光,矢島さやか,山野雄平,永次史
- 1P056 mRNA の構造変化を誘起するグアニン修飾アンチセンス核酸による翻訳制御(弘大院理工)○相馬悠里,白戸秀平,萩原正規
- 1P057 Design and synthesis of novel fluorescent DNA probes containing bis-pyrene unit for DNA detection(日大院工,理化学研究所)○小林彩夏,柳昌樹,松本桂彦,齋藤義雄

- 1P058 Effect of heat treatment of culture media on growth of *Saccharomyces cerevisiae*(日大工)○内藤瞭太,沼田靖,岸努,小林厚志
- 1P059 浸透圧調節因子 Sdu1 のタンパク質合成への関与(日大院工,日大工)○元木 暁久,伊藤彰吾,岸努
- 1P060 浸透圧調節に関わる MAP キナーゼ Hog1 の新しい調節機構(日大院工,日大工)○小原有貴,村田裕弥,岸努
- 1P061 グリセロールチャンネル開口因子 Sdu1 の浸透圧依存による分解調節(日大院工,日大工)○渡辺大輝,村田裕弥,岸努

【化学工学】

- 1P062 グアイアコールの立体選択的水素化反応(産総研)○山口有朋,村上由香,日吉範人
- 1P063 Effect of Seaweed Char Addition on Steam Co-Gasification with Land-Based Biomass to Produce Hydrogen-Rich Gas(弘前大学,弘前大学,弘前大学)○Az ZahraAghietyas Choirun,大倉寛澄,AnniwaerAisikaer,ChaerusaniViridi,阿布里提,官国清
- 1P064 バナナ皮のチャーと籾殻の共水蒸気ガス化による水素リッチガスの生成(弘前大理工,弘前大理工,弘前大地域研)○大倉寛澄,Az ZahraAghietyas Choirun,AnniwaerAisikaer,阿布里提,官国清
- 1P065 Spherulite formation Mechanisms of L-Alanine crystal and L-Glutamic acid crystal(岩手大院理工)○石亀みう,横田政晶,土岐規仁
- 1P066 Effects of crystallized conditions on changes in phenanthrene crystal morphology(岩手大院理工)○齊藤和奏,土岐規仁,横田政晶
- 1P067 Production of fumaric acid - glycine cocrystals by solid-liquid mixing method(岩手大院理工)○駒井美咲,横田政晶,土岐規仁
- 1P068 Solvent-free synthesis of Metal-Organic Frameworks of $\text{Cu}(\text{INA})_2$ (岩手大院理工)○木村凌平,横田政晶,土岐規仁
- 1P069 Effect of additives on the crystal growth of L-Phenylalanine(岩手大院理工)○金健大,土岐規仁,横田政晶
- 1P070 Crystal polymorphism control of L-Cysteine under batch cooling crystallization(岩手大院理工)○目澤躍人,土岐規仁,横田政晶
- 1P071 Mixed Convection Heat Transfer in Horizontal Rectangular Channels with Two Opposing Surfaces Heated(山形大院理工)○市原真子,門叶秀樹
- 1P072 Effect of Large Particle Addition on Heat Transfer from Side Wall of Solid-Liquid Agitation Vessel(山形大院理工)○藤堂里美,門叶秀樹
- 1P073 アニオン性蛍光プローブを用いたカチオン性ポリマーナノ粒子の表面荷電状態の評価(東北大院工)○藤島健介,長澤明,菅恵嗣,渡部花奈子,長尾大輔
- 1P074 Effect of silica mesostructure on nucleic acid adsorption in porous nanoparticle(東北大院工)○大庭大樹,菅恵嗣,渡部花奈子,長尾大輔

【高分子化学/繊維化学】

- 1P075 Performance of Triethylborane as a Radical Polymerization Initiator under Various Polymerization Conditions(生文大ポリケミラボ)○菅野修一
- 1P076 Screening Test of Imidazolium Ionic Liquids Having Bis(trifluoromethylsulfonyl)imide Anion as a Radical Initiator(生文大ポリケミラボ)○菅野修一
- 1P077 Solvent Effects of the Polymerization Initiated with 1-Ethyl-3-methylimidazolium Type Ionic Liquids(生文大ポリケミラボ)○菅野修一
- 1P078 Polymerization of General Purpose Vinyl Monomers Using Borane-diphenylphosphine Complex as a Radical Initiator(生文大ポリケミラボ)○菅野修一
- 1P079 Ring-opening Copolymerization of tricyclic compounds consisting of *cis*- and *trans*-5-membered cyclic carbonates with cyclic monomers.(山形大学院有機,旭化成)○秋田真,田沢佑介,羽場修,戸田達朗,中田卓人,米田久成
- 1P080 高分子反応を用いた EVOH への PMEA のグラフトの検討(山形大工,山形大院理工)○平塚大智,中山拓生,佐藤力哉
- 1P081 フルオロアルキル基含有両親媒性シルセスキオキサン微粒子の開発(山形大院有機)○村田翔太,森秀晴
- 1P082 Development of colored transparent silicone resin incorporating polydiacetylene(東北大院工)○田中千順,菅恵嗣,渡部花奈子,長尾大輔
- 1P083 Behavior of poly(vinyl alcohol)-borax complex in various concentrations of borax aqueous solution(山形東高校)○高橋真日路
- 1P084 Gas Permeability Properties of Crystalline Gels (山形大院有機)吉田晃,○宮瑾
- 1P085 Polymer gel fibers and nonwovens produced by photoreactive electrospinning(山形大院有機,山形大院工)櫻井浩登,高橋剛平,○宮瑾
- 1P086 水溶性二官能性エポキシ化合物で架橋したポリ(β -アルブチン)とポリエチレンイミンとの共重合体(岩手大理工)○駒木良樹,塚本 匡,大石好行,芝崎祐二
- 1P087 新規ビオロゲンゲルの合成とそれらの応用(山形大院理工,山形大工)○佐藤力哉,宮崎紘一,河田希実,佐々木紀佳
- 1P088 Interaction analysis of human MIF and anti-rheumatic drug methotrexate metabolites(秋大院理工,秋大産連)○江澤理徳,佐藤まゆみ,刈屋佑美,涌井秀樹,尾高雅文,松村洋寿
- 1P089 Synthesis of active ester modified polysiloxane and its functionalization through mild amidation reaction(東北大院工)○佐藤朋貴,朱慧娥,三ツ石方也

- 1P090 PEG-PLLA 生体適合性ポリマーミセルによる疎水性ヒドロキノン誘導体のカプセル化とメラニン産生の阻害効果(岩手大理工,日大工)○西條未来,塚本匡,大石好行,芝崎祐二,石原務
- 1P091 RGD ペプチドを修飾したポリ乳酸ナノ粒子の調製とその核酸医薬への応用(日大院工,日大工)○田口天志,山本真大,山田賢伸,室野井実紀,伊藤悟,石原務

【材料化学】

- 1P092 Preparation of Co-containing layered double hydroxide and its application of catalyst precursor for carbon nanotube synthesis(岩手大院,一関高専)○千田知香,熊谷陸駆,會澤純雄,桑静,平原英俊,木村寛恵
- 1P093 High Efficiency Synthesis of Carbon Nanotubes by the " Water-assisted CVD Method " using Layered Double Hydroxides(一関高専,岩手大院,産総研)○熊谷陸駆,千田知香,會澤純雄,二葉ドン,木村寛恵
- 1P094 Etching-free Ni-plating metallization for silicon through covalent bonding of a photoreactive functional groups-linked molecular layer(岩手大院)桑静,○村上真子,會澤純雄,平原英俊
- 1P095 凝集誘起発光を示す油脂材料の合成と評価(岩大院理工)○菊池美結,葛原大軌
- 1P096 アゾールの金属配位を用いた自己修復型有機-無機ハイブリッド材料の開発(山形大院有機)○大橋巧人,森秀晴
- 1P097 3-dimensional ionic conduction employing polymeric ionic liquid-coated core-shell type nanoparticles(山形大院理工,山形大有機材料シスセ)○田端恵介,牧野勉,増原陽人
- 1P098 Development of nano-prodrug@hydrogel for locoregional therapy(多元研)○劉智翔,小関良卓,鈴木龍樹,DaoAnh,笠井均
- 1P099 疎水性プロドラッグナノ粒子の生体内安定性の向上を目指したアポリポタンパク質 (apo-AI)による修飾(東北大多元研,コンポン研,富山県大)○程偉,中辻博貴,小関良卓,AnhDAO,鈴木龍樹,村上達也,笠井均
- 1P100 Fabrication of nano-prodrugs composed of SN-38 dimer that release drugs with high efficiency in cancer cells(東北大多元研)○谷田恵太,小関良卓,鈴木龍樹,ティンゴックアンダオ,笠井均
- 1P101 Preparation and structure of ruthenium nanosheets intercalated between graphite layers(岩手大院総合,岩手大理工,岩手大院理工)○工藤さくら,菊池瑞穂,谷口賢吉,EttyKusumawati,七尾英孝,白井誠之
- 1P102 In-situ observation of lubrication behavior of sulfur-containing ionic liquid [Hmim][TFSI](岩手大学院,岩手大学)○松本元輝,宇佐美陽輔,白井誠之,七尾英孝
- 1P103 Electrochemical aptasensor based on direct reduction of hemin(山形大工,山形大院有機,広島大院)○成澤純希,加藤孝太郎,舟橋久景,長峯邦明

- 1P104 Structural Analysis of Binary Nanoparticle Assembled Films by using Persistent Homology(山形大院理工)○深津冬弥,赤木和人,笠松秀輔,富樫貴成
- 1P105 Optical and Electrical Properties of CeTa_3O_9 and LaTa_3O_9 (山形大院工)○佐藤匡,早坂龍星,松嶋雄太
- 1P106 Synthesis of a CaCO_3 loaded TiO_2 and growth of Au nanoparticles on the surface(東北工大院工,NTT 先テ研)○加藤健太,鴻野晃洋,丸尾容子
- 1P107 Oxygen evolution characteristics of Ru-based thin films in acidic solution(秋田大院・理工学,秋田大・理工学)○織田隼輔,長谷川祐樹,高橋弘樹
- 1P108 Toluene photodegradation over titania pillared mica with different titania crystallite diameters(秋田大院理工)○北林茂明,古川恭,池内孝夫,井上幸彦,進藤隆世志

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- 1P109 Highly durable S-NiFe(OH)_x electrocatalyst for oxygen evolution reaction in alkaline seawater at high current density(弘前大学,弘前大学)○ギテイパットピブーンナッタパック,チンモン,阿布里提,官国清
- 1P110 Development of highly sensitive enzymatic biosensor utilizing self-induced redox cycling(山形大院有機)○下豊留嵩,長峯邦明
- 1P111 Development of the wearable sensor for monitoring skin surface pH(山形大院有機)○千葉健太郎,松井弘之,長峯邦明
- 1P112 heterostructure engineering of Ni₃S₂/NiS nanowire for electrochemical hydrogen evolution(弘前大学,弘前大地域研)○陳萌,NutthaphakKitiphatpibo,阿布里提,官国清
- 1P113 Photo-electrochemical imaging on TiO_2 epitaxial thin films(東北大院環境,東北大 AIMR,東北大院工)○佐藤覚仁,熊谷明哉,珠玖仁
- 1P114 Corrosion resistance of organophosphonic acid coated type 304 stainless steel in a PEFC environment(岩手大院理工)○佐々木颯斗,八代仁
- 1P115 Influence of Pulse Electrolytic Conditions on Properties of Aluminum Deposits Using Deep Eutectic Solvent(岩手大院理工)宇井幸一,○石川凌,竹口竜弥
- 1P116 Performance evaluation of polymer electrode fuel cells with Pt/ MO_x anode catalysts(岩手大学院)○佐藤蓮,ラフマン エムディ ミジャナル,脇田英延,宇井幸一,竹口竜弥
- 1P117 Effect of metal alloy cathode catalysts on ORR activity and OER activity of lithium-air secondary batteries(岩手大院理工)○高木史恭,ラフマンエムディ ミジャナル,宇井幸一,竹口竜弥

1P118 Mechanic study of solid electrolyte interphase (SEI) formation on anode surface in lithium-ion batteries by online electrochemical mass

spectroscopy(東北大院理)○彭 宝緒,葛愛民,徐呈旻,井上賢一,叶深

1P119 Electrodeposition using Hydrophobic Ionic containg $AlCl_3$ (岩手大学院理工,千葉大学院工)宇井幸一,○小山壺,竹口竜弥,津田哲弥