

## ポスターセッション第2部

9月17日(日)11:15~12:45

### 【無機/分析/環境化学】

- 2P001 Desorption of cesium from zeolite by using typical chelating agents and alkali metal salts(東北大院環境,(株)熊谷組)○大平早希,熊谷将吾,齋藤優子,亀田知人,横塚享,田邊大次郎,吉岡敏明
- 2P002 Iridium complexes having a bis(silyl) chelate ligand: synthesis and catalysis for C-H deuteration(東北大院理)○小室貴士,麻上淳平,飛田博実
- 2P003 Adsorbing Cs ion with zeolite/magnetite composite adsorbent and recovery of adsorbent by high-gradient magnetic separation (秋大院理工,三和テッキ(株))○中村彩乃,菅原浩平,中島春介,村上賢治
- 2P004 Reactivity of a silanimine-bridged dinuclear ruthenium complex toward isocyanides(弘前大院理工)○山崎崇平,松平将司,太田俊,岡崎雅明
- 2P005 Development of Nano Fiber Manganese-based Oxide Electrode Material with High Specific Surface Area (八戸高専)○大向諄,長谷川章,門磨義浩
- 2P006 An attempt to improve the reactivity of a silanimine-titanium complex and metallacycles derived from the insertion reactions with substrates through the construction of a vacant site at the titanium center (弘前大院理工)○干場有記,太田俊,岡崎雅明
- 2P007 Self-assembly reaction of metal hydroxide with organic compound and characterization(山形大院理工)和田瑞生,○菊池麻依夏,多賀谷英幸
- 2P008 Pt/CeO<sub>2</sub>系触媒のバイオエタノール水蒸気改質反応に及ぼす不純物の影響 (石巻専修大,徳島大,三和澱粉)○山崎唯,内海悠介,菊池尚子,山崎達也,加藤雅裕,吉川卓志,和田守
- 2P009 Arene C-H borylation catalyzed by iridium complexes bearing a silyl-bipyridine pincer ligand (東北大院理)○望月大輝,小室貴士,飛田博実
- 2P010 Kinetic analysis of chemical reaction between 2-Phenyl-4,4,5,5-tetramethylimidazoline-3-oxide-1-oxyl and nitrogen monoxide in a porous glass(東北工大工,東北工大院工)○浅沼光吾,鈴木義史,丸尾容子
- 2P011 Reaction mechanism between pararosanine and aldehydes in porous glass (東北工大工)○阿部捺美,丸尾容子
- 2P012 Hydrogenation of 4-propylphenol over Pd/C in aqueous ethanol solution: role of water(岩手大工,岩手大学院総,岩手大理工,産総研)○皆川直祐,本郷秀一郎,七尾英孝,佐藤修,山口有朋,白井誠之

- 2P013 Detection of chloride ions by an ion exchange reaction in Ag<sub>2</sub>CrO<sub>4</sub> phase loaded on a silica thin film flow channel.(弘前大院理工)○九翟恭平,北川文彦,糠塚いそし
- 2P014 Development of a Janus Particles-utilizing Aldosterone Immunosensor (東北大院環境,AIMR)○ファクルッディンシティ マストウラ,佐藤(増子)さつき,藪浩,井上(安田)久美,末永智一
- 2P015 Quantitative analysis of phosphate aggregate using Raman spectroscopy (日大工)○小林隼人,沼田靖,田中裕之
- 2P016 Quantitative analysis of amyloid  $\beta$  adsorbed on carbon nano-test-tubes by the temperature programmed desorption method(東北大多元研)○石原大輝,後藤圭司,和田健彦,干川康人,京谷隆
- 2P017 Electrochemical attosyringe for cell analysis(東北大院工,東北大院生)○越後雅邦,矢島大聖,伊野浩介,珠玖仁
- 2P018 Quantitative analysis of oleic and elaidic acids in there mixed solution by Raman spectroscopy(日大工)沼田靖,○赤間佑希,葛西佑紀,大波法彦,田中裕之
- 2P019 Desorption of anions from Mg-Al Layered Double Hydroxide by CO<sub>2</sub> (東北大院環境)○内田大貴,亀田知人,熊谷将吾,吉岡敏明
- 2P020 Elution suppression of F,B,As,Cr(VI) from regenerated crushed stone included the crushed stone powder (山形大工,山形大院理工)○千徳淳貴,佐藤秀哉,佐々木貴史,遠藤昌敏
- 2P021 Mutual Separation of Pt(IV), Pd(II), and Rh(III) Using Aliphatic Primary Amines as Precipitants(秋大院理工)○山川澄人,松本和也,寺境光俊
- 2P022 バイオマス発電で排出される有価物の利用方法に関する研究(山形大工,山形大院理工,山形大工技)○高橋宏義,鈴木崇広,虻川輝明,佐々木貴史,伊藤智博,立花和宏,仁科辰夫
- 2P023 Heavy metal removal from fly ash by chloride volatilization(東北大院環境)○倉島健太,松田佳歩,熊谷将吾,亀田知人,吉岡敏明
- 2P024 Deodorize and sterilize effect of VUV light irradiated mist(山形大工,山形大院理工)○小野寺栞,今野嵩大,川名隆宏,佐々木貴史,遠藤昌敏
- 2P025 ウミホタルの生態について(秋田北高)○安田悠真,松本紘汰
- 2P026 ウミホタルのコミュニケーションとタンパク質の関係性(秋田北高)○寺沢綺莉,永井日南莉,小松咲穂
- 2P027 低酸素の状況下における植物の呼吸と光合成(秋田北高数理探求クラス)○今野玲奈,橋本陸,渡部太郎
- 2P028 植物の炭酸水による成長量の増加(秋田北校)○佐藤大起,小野寺壘,堀井史人

## 【物理化学】

- 2P029 Topological ordering in Ge-based network glasses(山形大理,Bath 大)  
○臼杵毅,小笠原楓,天羽優子,亀田恭男,SalmonPhilip
- 2P030 The Quantitative Detection of Very-Small-Amount Tritium Oxide TDO in Commercial Available Deuterium Oxide D<sub>2</sub>O(日大工)奥山克彦,大竹修平,大田紘生,山本改,○奥山克彦
- 2P031 The Butterfly Angle of Electronially-Excited 1,2,4,5-Tetrafluorobenzene Determined by the Quantitative Evaluation of Franck-Condon Factor and the kinetic-Energy Operator(日大工)○山本改,奥山克彦
- 2P032 Hydrogenation of cinnamaldehyde over Pt-GIC in supercritical carbon dioxide(岩手大学院総,岩手大理工)○天沼博耀,七尾英孝,白井誠之
- 2P033 Intercalation of platinum tetrachloride into graphite sheets(岩手大工,岩手大学院総,岩手大理工,東京工芸工)○山崎悠輔,天沼博耀,七尾英孝,松本里香,白井誠之
- 2P034 Temperature dependence of low-frequency Raman scattering of ethylene glycol(山形大院理工)○久道亜南,亀田恭男,臼杵毅,天羽優子
- 2P035 2-プロパノール溶液中における鉄イオンの溶媒和構造(山形大理)○柿沼勇仁,亀田恭男,臼杵毅,天羽優子
- 2P036 Low-frequency Raman scattering of 1,3-propanediol-acetone mixture(山形大院理,山形大理)○藤井有平,天羽優子,亀田恭男,臼杵毅
- 2P037 超臨界状態に至るメタノールの低振動数ラマンスペクトル(山形大理)○木村未来,天羽優子,亀田恭男,臼杵毅
- 2P038 0.1 cm<sup>-1</sup> から 250cm<sup>-1</sup> の水のラマンスペクトルの温度変化(山形大理)○大村拓也,天羽優子,亀田恭男,臼杵毅
- 2P039 Basic Experiment for Aqua Display(秋田北高校)○渡辺美希,堀部俊樹,栗田真明,東野弘道,岩村海利
- 2P040 透明電極上に製膜した有機太陽電池材料の吸収スペクトルに及ぼす電極電流の効果(日大工)○島田康平,加藤隆二
- 2P041 高感度過渡拡散反射分光法を用いた実用酸化チタン光触媒の電荷ダイナミクスの評価(日大工)○張堯華,加藤隆二
- 2P042 フッ素置換ジフェニルヘキサトリエン結晶におけるシングレットフィッション速度の温度依存性(日大工,産総研)○橋本正明,園田与理子,加藤隆二
- 2P043 ローダミン B 会合体の励起緩和過程(日大工,-)○榎木正美,鈴木克史,村瀬哲司,今関重明,加藤隆二
- 2P044 トルエン中のテトラシアノベンゼンのエキシプレックス形成サブナノ秒ダイナミクス(日大工,ユニソク)○二階堂真裕,中川達央,加藤隆二

- 2P045 Hydrogen-Bonding Assemblies of Amphiphilic Alkylamide-Substituted Isophthalic Acid Derivative with different Alkyl Chain Length (東北大院工)○呂超
- 2P046 エレクトロスプレーイオン化法で生成したアルカリハライドクラスターイオンの構造研究(東北大理,東北大院理)○宮崎舜,田井中創太,矢部謙太,西結人,大下慶次郎,美齊津文典
- 2P047 Adsorption reactions of polar molecules on sodium fluoride cluster cations studied by ion mobility mass spectrometry(東北大理,東北大院理,東北大高教機構)○堀田力,蛇口大揮,Wu W. J.Jenna,中野元善,大下慶次郎,美齊津文典
- 2P048 パルススパッタリングを用いて生成した金属クラスターイオンと気体分子との吸着反応におけるサイズ依存性(東北大理,東北大院理,株アヤボ)○梶山知孝,岩崎航,小川雅人,山本宏晃,戸名正英,塚本恵三,中野元善,大下慶次郎,美齊津文典

## 【有機化学】

- 2P049 バナジウム・カーボン複合触媒による  $\alpha$ -ケトールの酸化的開裂反応 (東北大工,東北大院工)○畠山康佑,関根大,中川善直,田村正純,富重圭一
- 2P050 セラギネリン A の全合成研究(秋田大院理工)○板垣貴也,近藤良彦,秋葉宇一,藤原憲秀
- 2P051 Focused stereochemical library of a plant hormone mimicking natural product, (+)-Coronatine(東北大院理)○戸澤聖,加藤信樹,渡部楽,林謙吾,上田実
- 2P052 Synthetic Study on the Armchair-edged Carbon Nanotube Structure (弘前大院理工,信州大院理工)○山下翼,関口龍太,川上淳,伊東俊司
- 2P053 Synthetic Study on the  $\pi$ -Extended Hexaazurenylbenzane Derivatives (弘前大学院理工)○櫻庭政男,中西大地,川上淳,伊東俊司
- 2P054 Development of Nobel Highly Electron-Poor Buchwald Type Ligand (岩手大院理工)○菊池拓磨,嶋田和明,是永敏伸
- 2P055 A novel method for the detection of activity of glycosyl hydrolases by using synthetic glycosides having with reducing activity (日大工)○鈴木大樹,伊藤博,小林厚志
- 2P056 Enhancement of DNA Delivery to Glioma Cells by Conjugation of EGFR-Binding Peptides to Cationic Polysiloxane Polymers (日大工)○前田莉穂,木原慶彦,市川司,根本修克,石原務,平野展孝,春木満
- 2P057 Asymmetric Dehydration Reaction Catalyzed by Chiral Brønsted Acid (東北大院理)○冬木悠生,清水雅大,山中卓人,近藤梓,菊池隼,寺田眞浩

- 2P058 銅触媒による *N*-アルコキシアニリンの[1,3]-アルコキシ転位反応  
(東北大院理)○田代大樹,城健,石田恭裕,中村達,寺田眞浩
- 2P059 Synthetic Study on the Arylazulene Derivatives Utilizing Transition-metal Catalysts(弘前大院理工)○谷津友章,川上淳,伊東俊司
- 2P060 Synthesis and application of silyl-terminated triazine derivatives having various N-containing functional groups as molecular adhesive agent(岩手大理工,いおう化学研究所)村岡宏樹,○江良周一郎,工藤孝廣,森邦夫,小川智
- 2P061 Preparation and Electrochemistry of Porphyrin Derivatives with Triazine Dithiol Groups(岩手大研究推進機構)木村毅,○村岡裕介
- 2P062 Screening of oxidized purine nucleotide hydrolyzing enzyme MTH1 inhibitors.(日大工)○中里光,木原慶彦,平野展孝,春木満
- 2P063 Concise Synthesis of Carnosadines via Double Alkylation of an Aziridine Derivative(東北大院薬)大澤宏祐,○窪田隼也,土井隆行
- 2P064 Synthesis and Photophysical Properties of Azulene-fused Triptanthrin Congeners Possessing Donor and Acceptor Substituents  
(弘大院理工,弘大理工)○古川千恵子,石川陽,川上淳,伊東俊司
- 2P065 Suppression of Epithelial Sodium Channel Gene Expression by Bioactive Compounds(日大院工生,日大工生)○山寺飛弥貴,遠藤拓弥,藤田恭平,矢吹凌一,木原慶彦,野田吉弘,平野展孝,春木満
- 2P066 Preparation of Phthalocyanine Derivatives via Deprotection of Xylylene Groups and Construction of Dithiaphosphole Rings  
(岩手大研究推進機構)木村毅,○飯田和男
- 2P067 Synthetic Study and Structure Determination of Asperterrestide A(東北大院薬,三重大院生資)大澤宏祐,○菅井柁人,張林楠,増田裕一,吉田将人,土井隆行
- 2P068 Design of ditopic receptor to recognize alkaline metal cation and bromide anion cooperatively(山形大理)○種石祥也,近藤慎一
- 2P069 Total Synthesis of Dimeric Indole Alkaloids(東北大院薬)○植田浩史,佐藤均,小島健一,佐藤壮一郎,平山梓,徳山英利
- 2P070 Detection of Anions by Fluorescent Receptors Based on Isophthalamide  
(山形大)○飯岡淳,近藤慎一
- 2P071 Marker-free insertion of C-terminal epitopes in *Saccharomyces cerevisiae*  
(日大院工)○野中真道,岸努
- 2P072 Photophysical properties of di(1-pyrenyl)methane derivatives substituted with donor and/or acceptor groups exhibiting novel intramolecular excimer (exciplex) emission(山形大理)○佐藤恵祐,近藤慎一
- 2P073 Synthesis and properties of linear- and star-shaped molecules with a pyrazine core(岩手大理工)村岡宏樹,○岩淵直樹,小川智

- 2P074 Optimization of alpha-amylase-catalyzed maltooligosyl transfer reaction to various *n*-alkyl beta-thio-glucosides(日大工)○伊藤博,小林厚志
- 2P075 Synthetic study of SapB, Dha-containing Lantibiotic peptide (山形大院理工)○似内郁美,今野博行
- 2P076 Mechanism of novel intramolecular excimer emission by two pyrenyl groups connected by one element(山形大理)○河村惟衣,佐藤恵祐,近藤慎一
- 2P077 ロジウム触媒を用いた 1, 4-ジチインの異性化反応とアルキン交換反応 (東北大院薬,東和薬品)有澤美枝子,○澤畑恭佑,市川拓哉,山口雅彦
- 2P078 Synthesis of substituted 1,3-thiazoles through the reaction of 1,3-thiaza-1,3-butadienes with carbenes or metal carbenoids (岩手大理工)嶋田和明,○西宮黎,是永敏伸
- 2P079 Direct introduction of thio carbonyl group into unprotected sugar reducing end(東北大院工)○田中悠希,李格非,野口真人,正田晋一郎
- 2P080 1,4-アンヒドロエリスリトールの選択的水素化分解によるブタンジオール合成用触媒の開発(東北大院工)○関根直志,荒井貴博,田村正純,中川善直,富重圭一
- 2P081 Preparation of active species of organocatalyst for oxidative homocoupling reaction(岩手大院工,岩手大理工)○似鳥馨,嶋田和明,村岡宏樹,小川智,是永敏伸
- 2P082 ジベンゾフラン系天然物の合成研究(秋田大院理工)○佐藤大介,近藤良彦,秋葉宇一,藤原憲秀
- 2P083 EtAlCl<sub>2</sub>/2,6-Dibromopyridine-Mediated Estification of Alkenes with Chloroformate Esters.(東北大院工)○國澤主,田中信也,服部徹太郎
- 2P084 Development of Calix[4]arene-Based PGM Extractants possessing Excellent Solubility for Aliphatic Hydrocarbons(秋田大院理,秋田大院理,秋田大院国資)山田学,○金田祐,ムニヤパンラジブ ガンジー,近藤良彦,秋葉宇一,藤原憲秀
- 2P085 第一級アミン型不斉有機触媒を用いる Wieland-Miescher ケトン類縁体の不斉合成(日大院工,日大工)○渡邊健人,阿蘇敦,玉井康文
- 2P086 Enzymological characterizations of chalcone reductase paralogs of soybean(東北大院工)○和氣駿之,大豆田亮,高橋征司,中山亨
- 2P087 About regeneration of planarian (秋田北高校)○山口功太郎,藤原駿佑,鎌田翔太,佐藤優介
- 2P088 Relationship between polyphenol and UVrays (秋田北高校)○佐藤愛尋,小松田日和,今野美陽,沢井伶,柴田優香

## 【化学工学】

- 2P089 Heat deterioration of mortar cause by day-long exposure to elevated temperature (~1000 deg C)(福島高専,IUT Bethune)  
○齊藤甲希,ウアットユーネス,車田研一,緑川猛彦
- 2P090 Effects of cooling rate and supercooling on the nucleation of benzophenone(岩手大院工,岩手大理工)○高橋智,土岐規仁,横田政晶
- 2P091 Secretory production of self cross-linkable transglutaminase by *Brevibacillus*(秋田大理工,秋田大院理工)○大池健太,横田早希,佐藤大地,佐々木瞬,齊藤樹,後藤猛
- 2P092 Hydrogenation of bamboo powder over Pt/C in water: Effect of hydrothermal and ball-milling pretreatment(岩手大学院総,岩手大理工,産総研)○本郷秀一郎,七尾英孝,佐藤修,山口有朋,白井誠之
- 2P093 Steam gasification of various chars prepared at different pyrolysis temperatures(弘大,弘大,弘大,弘大,弘大)○アブドケリムアブリケム,タオユー,暁弘吉田,阿布里提,国清官
- 2P094 Behavior of L-Isoleucine in Droplet (岩大院工,岩手大理工)○伊藤嘉規,土岐規仁,横田政晶
- 2P095 Catalytic upgrading of bio-oil derived from lignin over metal-modified ZSM-5(Hirosaki Univ.,NJRISE)○KurniaIrwan,吉田暁弘,AbulitiAbudula,GuoqingGuan
- 2P096 Recovery of Gold and Silver from Spent Printed Circuit Board by chlorination(秋田大院理工)○作左部皓輔,加藤貴宏,大川浩一,菅原勝康
- 2P097 Morphological Change and Structure of Cocrystal Polymorphs (岩大院工,岩手大理工)○野村みなみ,土岐規仁,横田政晶

## 【高分子化学/繊維化学】

- 2P098 Radical Polymerization Initiated with Pyridinium Ionic Liquids under Various Reaction Conditions(生文大)○菅野修一
- 2P099 Effects of Additives on the Radical Polymerization Initiated with R-Alpine-borane(生文大)○菅野修一
- 2P100 Properties of Borane-diphenylphosphine Complex as a Specific Initiator of Polymerization(生文大)○菅野修一

- 2P101 Radical Initiating Ability of N-Hexylpyridinium Trifluoromethanesulfonate under Various Polymerization Conditions(生文大)○菅野修一
- 2P102 粒子共存制御ラジカル重合法による活性化フィラー充填電解質膜の創製(山形大院理工,東北大多元研,山形大有機エレ研)○志藤慶治,高橋佑樹,関根慧,有田稔彦,増原陽人
- 2P103 Effect of Phenols of Quaternary Ammonium Salt Hydrogels on Thermo-Sensitive Swelling Behavior.(秋田大学大学院)○山下剛司
- 2P104 溶剤可溶性を有する全芳香族ポリウレタンの開発(山形大工,山形大院有機)○相原聡志,前山勝也
- 2P105 三官能性アシル受容体モノマーを用いる透明性半芳香族ポリケトンの開発(山形大工,山形大院有機,日立化成)○大宮基裕,加藤真吾,前山勝也,石川洋平,松谷寛
- 2P106 1,3-アダマンタンジイル構造を主鎖に含むポリアリーレンの開発(山形大院有機,日立化成(株))○加瀬将登,前山勝也,石川洋平,松谷寛
- 2P107 Synthesis and optical properties of thermoplastic polythiocyanurates having high refractive indices(岩手大院工)○史松炎,芝崎祐二,大石好行
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- 2P109 Synthesis of N-phenylated aromatic polybenzimidazole using triazine-based active diester(岩手大院総理工)○花田舞結,芝崎祐二,大石好行
- 2P110 Synthesis of phosphorus-containing aromatic polycyanurates with flame retardancy(岩手大院総理工)野呂仁一朗,○中村智里,芝崎祐二,大石好行
- 2P111 Synthesis and optical properties of aromatic polyguanamines having high refractive indices(岩手大理工)○加美山睦,佐々木茂子,芝崎祐二,大石好行

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- 2P113 Luminescent properties of RE-doped mullite ( $\text{Al}_6\text{Si}_2\text{O}_{13}$ ) for realization of full-color phosphor (RE= $\text{Ce}^{3+}$ ,  $\text{Eu}^{2+}$ ,  $\text{Ce}^{3+}$ - $\text{Tb}^{3+}$  and  $\text{Eu}^{3+}$ )(山大院理工,山大工)○高橋寛貴,田村豪人,松嶋雄太
- 2P114 Effect of thermal and water stability on natural rubber and steel cord composites(岩手大院)平原英俊,○佐々木鴻,會澤純雄,桑靜



- 2P115 Synthesis of antiperovskite  $Mn_3AN$  ( $A = Zn, Cu$ ) by nitridation of the metal sources under nitrogen atmosphere(山大院理工)○齊藤翔一,松嶋雄太
- 2P116 Study on direct adhesion between thermoplastic resin and metal using injection molding(岩手大工)平原英俊,○吉田俊希,會澤純雄,桑靜,熊谷凌介
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