

ポスターセッション第2部

9月18日(日)9:00~10:30

【無機/分析/環境化学】

- 2P001 CO₂ hydrogenation catalyzed by Iridium complexes with amino substituted bipyridin ligands under high-pressure conditions(筑波大院,AIST)○大野聖海,兼賀量一,川波肇
- 2P002 Cyclotrimerization of benzonitriles catalyzed by magnesium-activated titanium chlorido complexes(弘前大理工,弘前大院理工,長岡技科大工)○及川香梨,齊藤慧一郎,戸田智之,岡崎雅明,太田俊
- 2P003 Synthesis of mesoporous Mg-Al layered double oxides with high specific surface area and adsorption properties of arsenate(東北大院環境,熊谷組)○高梨樹,亀田知人,熊谷将吾,齋藤優子,横塚享,吉岡敏明
- 2P004 Synthesis of titanium zirconium oxide by combined sol-gel and solvothermal methods and its application for CO₂ adsorption (東北大院環境)○澤口京佑,鈴木佑京,モツワイソフィオナ,亀田知人,熊谷将吾,齋藤優子,吉岡敏明
- 2P005 Pyrolytic interactions during co-pyrolysis of polylactic acid and high-density polyethylene(東北大院環境,東北大高等研究機構新領域創成部)○安達若菜,邵珠沢,熊谷将吾,齋藤優子,亀田知人,吉岡敏明
- 2P006 Quantification of bone differentiation prediction of highly functional human mesenchymal stem cells using a scanning ion conductance microscopy(東北大院環境,東北大院工,東京医科歯科大生体材料)○野澤洸太,珠玖仁,伊野浩介,梨本裕司
- 2P007 Electrochemical evaluation of intestine models on porous membrane(東北大院環境,東北大院工)○伊藤千聖,伊野浩介,珠玖仁
- 2P008 Solvothermal synthesis and NIR luminescence of RE₂MoO₆:Bi,Yb(RE=Gd,Y,Lu)nanophosphor(東北大院環境,東北大多元研,物材機構)○半谷泰生,長谷川拓哉,中西孝之,武田隆史,殷シュウ
- 2P009 Quantitative analysis of Quercetin in food waste with Raman spectroscopy(日大院工)○佐藤さつき,横山達紀,沼田靖
- 2P010 球状中空シリカ-チタニアの組成比が形状および光触媒活性に及ぼす影響(一関高専専攻科物質,日大生産)○高橋龍也,外山直樹,古川茂樹,照井教文
- 2P011 A Dinuclear Iridium Complex of Lithium-ion Encapsulated Fullerene C₆₀: Synthesis and Properties(東北大院理)○福士知愛,小室貴士,橋本久子
- 2P012 デンドリマーを多元素集積鋳型とするサブナノ粒子の精密合成と高活性酸化触媒の開発(福島県医大,東工大化生研)○飯島隆輔,田辺真,山元公寿
- 2P013 マンガン(II)錯体中のカテコール部位を利用する酸化還元反応とその電位制御(福島大院理工,福島大理工)○長南光紀,菅野貴敏,高瀬つぎ子,大山大

- 2P014 金属カルシウムと鉄鋼スラグを用いた還元的脱塩素化反応において助剤としてはたらく金属酸化物の推定(八戸工大工)○井畑良基,木村鉦龍,三浦聖太,片山裕美
- 2P015 金属カルシウムと鉄鋼スラグを用いた還元的脱塩素化反応の定量分析とスラグの添加効果の検討(八戸工大工)○木村鉦龍,井畑良基,三浦聖太,片山裕美
- 2P016 土壌中窒素量とニンニク中ビタミン B₆ 含有量の関係性の評価(八戸工大工,八戸工大感性)○藤原瑞樹,太田拓海,宮崎滉平,長谷川雄恒,後藤厚子,片山裕美
- 2P017 アク抜き時の草木灰から栃の実・ワラビへの放射性セシウム移行における速度論と平衡論(福島大院理工,福島大理工)○菅野諒,梅津裕義,大橋弘範
- 2P018 Study on solvent conditions of prion protein droplet formation for amyloid nucleation analysis(東北大多元研,東北大院理,筑波大院数理物質系,産総研,神戸大院理,小松大生産システム科学部,理研,東北大高等研究機構)○小澤大樹,西奈美卓,富田峻介,大橋祐美子,粕谷素洋,茶谷絵里,丸山洋子,白木賢太郎,火原彰秀,福山真央
- 2P019 Development and performance test of new photoacoustic spectroscopy evaluation system for nonradiative deactivation characterization in phosphor materials(東北大院工,静岡大電子研)○藤本裕,越水正典,浅井圭介
- 2P020 The analysis and characterization of silane coupling agent surface coatings on aluminum surface(岩手大理工)平原英俊,○佐久間詩歩,桑静,會澤純雄
- 2P021 Electrical conduction properties of rare earth metal-alkaline earth metal fluoride glasses(東北大院工,大阪公立大院工,東北大多元研)○織田島和樹,本橋宏大,木村勇太,中村崇司,雨澤浩史
- 2P022 Synthesis of apatite-type vanadates containing copper or nickel ion in the channel.(秋田大院理工)○下田陽南,齊藤寛治,小笠原正剛,加藤純雄
- 2P023 CeO₂-supported bimetallic Ni-Ag catalyst for ammonia synthesis from NO-CO-H₂O(AIST FREA,AIST FREA, TIT)○ChaudhariChandan,眞中雄一,難波哲哉
- 2P024 Removal, recovery, and recycle of tungsten from the aqueous solution using immobilized Pseudomonas cells(八工大工)○鶴田猛彦,田口翔太,屋須雅人,佐藤樹,武井大翔

【物理化学】

- 2P025 Microspectroscopic study on artificial thylakoid membranes supported by polymerized lipid bilayers(東北大理,神戸大院農,神戸大バイオシグナル,東北大院理)○酒井颯太,楠祐佳,森垣憲一,叶深,柴田穰
- 2P026 Effect of counterion on aqueous surface tension reducing ability and hydrophobic layer density of non-fluorinated anionic surfactants with trimethylsilyl groups(弘前大院理工,スポンジー大,スルタンイドリス教育大,バ

- ーミング大,ブリストル大)○込山ひなた,アレクサンダーシュリン,モハメドアズミ,コバルチャックニナ,シモンズマーク,イーストージュリアン,鷺坂将伸
- 2P027 Excited triplet decay of the inclusion complexes of naphthalene derivative/6-substituted cyclodextrin/third components in aqueous solution(岩手大院理工)○川原詩歩,八代仁,鈴木映一
- 2P028 Proton conductions in chiral (imidazolium or triazolium)-camphorsulfonate salts(東北大院工,東北大多元研,新潟大院自然)○佐藤千慧,三部宏平,武田貴志,星野哲久,芥川智行
- 2P029 Reversal of traditional assignment for *anti* and *gauche* 1,2-diphenylethane(日大工)○千葉康平,大塚隼人,奥山克彦
- 2P030 Isomerization reaction of protonated *p*-aminobenzoic acid by collision with NH₃ and ND₃: An ion mobility-mass spectrometric study(東北大理,東北大院理)○高崎佑也,角田健吾,伊藤亮佑,大下慶次郎,美齊津文典
- 2P031 Radiation-induced luminescence properties of plastic scintillators doped with molecules exhibiting aggregation-induced emission(東北大院工,静岡大電子研)○佐藤敦史,越水正典,藤本裕,浅井圭介
- 2P032 Structural analysis of concentrated NaTFSA, NaFSA, and NaOTf ethylene glycol solutions by X-ray diffraction(山形大理)○高橋紗音,亀田恭男,天羽優子,臼杵毅
- 2P033 Structural analysis of consentral aqueous NaTFSA, NaFSA, and NaOTf solutions by X-ray diffraction(山形大理)○本郷あおい,亀田恭男,天羽優子,臼杵毅

【有機化学】

- 2P034 Molecular Structure-Optical Property Relationships of Sulfonylaniline Positional Isomers(山形大院有機,山形大院理工)○佐藤大幹,星野七海,佐藤亜紀,瀧澤将太,片桐洋史
- 2P035 Synthesis and luminescence properties of sterically-crowded star-shaped molecules with a pyrrole core(岩手大理工)○大村友南,村岡宏樹
- 2P036 柔軟なオリゴエーテルで連結した2つの尿素部位を有するレセプターの合成と認識能(山形大理)○佐藤智恵理,近藤慎一
- 2P037 *P*-キラルなリン酸トリアミドを認識部位に有するアニオンレセプター(山形大理)○吉野誠一,近藤慎一
- 2P038 Synthesis of *N,O*-bridge-type triphenylboranes and evaluation of delayed fluorescence properties(東北大院工,静岡大電工,ユニカミノルタ)○稲川雅也,北本雄一,藤本裕,越水正典,一杉俊平,高秀雄,桧山邦雄,北弘志,大井秀一,服部徹太郎
- 2P039 Synthesis of Nitrogen-Containing π -Conjugated Compounds using Dipyrrolyl Benzene Derivatives(岩手大院総合)○金子真夕,菊池翔,葛原大軌

- 2P040 Synthesis, Reactivity and Optical Properties of 4-Arylazulenes(信州大院理, 日大工)○安藤大地,太田哲,浜崎亜富,庄子卓
- 2P041 Synthesis, reactivity and photophysical properties of azulenopyrones(信大院理,日大工)○笹原二千花,庄子卓
- 2P042 Self-organization and structural control of stimuli-responsive amphiphilic molecules with crown ether rings(山形大院理工)○早坂颯将,富山祐一,高橋拳,佐藤奈津美,王鑫,波多野豊平,木島龍朗
- 2P043 Structural control and stability of cerasomes using redox properties of ferrocene(山形大院理工)○鈴木皓大,渡辺翔,波多野豊平,木島龍朗
- 2P044 Synthetic Study on an Isolable Thiophosphoryl Radical(東北大院理)○吉田有佑,石田真太郎,岩本武明
- 2P045 Anion Receptors Bearing Various Amino Acids as Recognition Sites(山形大院理工,山形大理)○片桐壮平,近藤慎一
- 2P046 Phosphazene Base-Catalyzed Addition of β -Acylvinyl Anion Equivalent(東北大院理)○山口翔,近藤梓,寺田眞浩
- 2P047 Sterically Hindered Suzuki-Miyaura Coupling using Buchwald's Ligand bearing Perfluoroaromatic Ring(岩手大院理工)○小畑洸琉,森谷咲月,是永敏伸
- 2P048 Theoretical Consideration of the Effects of Lower-Aromatic Ring of Buchwald Ligand on Cross-Coupling(岩手大院理工)○新井田駿介,吉田尚恵,是永敏伸
- 2P049 CO₂-Assisted Stereocontrolled Multi-component Reaction Catalyzed by Ni/PPH₃(福島高専,長崎大院工)○宗像海帆,木村正成,森崇理
- 2P050 A New Type of Abnormal Michael Reaction: Formation of Cyclopentenecarboxylate by the Reaction of 7-Bis(alkoxycarbonyl)-2-heptenoate with a Base(福島県立医大,広島大)○佐々木道子,武田敬
- 2P051 Co/Al-Catalyzed Site-Selective C-H Alkenylation of N-Heteroarenes(東北大院薬,Shaoxing University)○齋藤友理, WangChen, 菊池隼, 吉戒直彦
- 2P052 Synthetic Studies on Isocrambescidin 800 by Gold-Catalyzed Domino Cyclization(東北大院薬)○牧亮太,○千葉七瀬,阿部祐大,植田浩史,徳山英利
- 2P053 Synthetic Studies on Plakinidines(東北大院薬)○中村瑤菜,秋田一成,安達陶磨,坂田樹理,徳山英利
- 2P054 Synthesis of Indolyl 2-Phosphonate by Ring Expansion Reaction of Oxime Sulfonate(東北大院薬)○菅野雄亮,山下有美,今泉拓,坂田樹理,徳山英利
- 2P055 Synthetic Study for Cyclophane - containing Cyclic Tripeptides(東北大院薬)○大澤宏祐,○長岡萌華,土井隆行
- 2P056 渦鞭毛藻由来ポーチミンのアセタール部分モデルの合成研究(秋田大院理工)○高杉裕一郎,藤原憲秀
- 2P057 Evaluation of Berberine derivatives for inhibiting Amyloid- β aggregation(山形大院理工)○岡田実優,田尻美理,山田亮,真壁幸樹,今野博行
- 2P058 Design and photophysical properties of novel acyclic ESF probes for target DNA detection(日大院工)○奥友里乃,小木聖徳,齋藤義雄

- 2P059 Derivatization of α -arbutin for the analysis of glycosyl hydrolases(日大工)○高橋薫樹,小林厚志
- 2P060 グリセロールチャンネル開閉因子の脱リン酸化(日大院工,日大工)○片山正教,村田裕弥,岸努
- 2P061 転写因子 Swi5 の安定化による細胞周期進行阻害(日大院工,日大工)○石山和希,林宏樹,岸努
- 2P062 Creation of novel fluorescent indicators for screening of RNA binding small molecules(東北大院理,東北大多元研)○岩田遼平,鬼塚和光,長澤瞭佑,村瀬裕貴,永次史

【化学工学】

- 2P063 A study of luminescence properties of frozen Au-SG complexes(山大院理,山大工)○野村薫平,広木僚也,久田皓貴,伊藤雄太,會田忠弘
- 2P064 Photocatalytic activity and carrier behavior of Titanium dioxide-based composite photocatalysts(山形大院理工)○酒井啓寿,會田忠弘
- 2P065 Reaction rate analysis of photoisomerization in various polymer matrices(山大工)荒木進之介,○伊藤雄太,會田忠弘
- 2P066 Hydrogenation of acetophenone over activated carbon supported palladium catalyst in water solvent(岩手大理工,産総研)○大西雄介,谷口賢吉,エツティクスマワティ,七尾英孝,日吉範人,白井誠之
- 2P067 Hydrolysis of polyethylene terephthalate in high-temperature liquid water(岩手大理工,産総研)○大久保龍之介,谷口賢吉,エツティクスマワティ,七尾英孝,山口有朋,佐藤修,白井誠之
- 2P068 メカノケミカル反応を用いた球状バテライト粒子の合成(一関高専専攻科,一関高専化学バイオ)○須藤奈津美,二階堂満,福村卓也
- 2P069 Development of an organic liquid scintillator loaded with organic-inorganic hybrid ZrO₂ nanoparticles for detection of neutrinoless double β decay(東北大院工,静岡大電子研,東北大 WPI-AIMR,東北大 NICHe,東北大多元研)○渡邊晶斗,越水正典,横哲,成基明,笹居高明,阿尻雅文,林大和,藤本裕,浅井圭介
- 2P070 Effect of alkali metal on steam gasification of heavy oil fly ash(秋田大院理工)○宮村明宏,中村彩乃,村上賢治
- 2P071 Effect of reaction temperature and deep eutectic solvent on degradative solvent extraction of woody biomass(秋田大院理工)○鈴木亮,ペドロドミンゴダウセ,中村彩乃,村上賢治
- 2P072 Optimization of reaction conditions for terephthalate recovery by PET-PVC co-pyrolysis(弘前大地域戦略研,弘前大院理工,東北大院環境)○本宮拓実,吉田曉弘,熊谷将吾,吉岡敏明
- 2P073 Comparison of basic catalysts on recovery of valuable aromatic compounds from wheat bran(弘前大地域戦略研,弘前大院理工,弘前大院農生)○成田稜,逢坂優太,樋口雄大,園木和典,吉田曉弘

- 2P074 Recovery of valuable aromatic compounds from rice husk and sugar cane bagasse by oxidative and basic treatments(弘前大地域戦略研,弘前大理工,弘前大院農生)○佐藤元拓,逢坂優太,樋口雄大,園木和典,阿布里提,吉田暁弘

【高分子化学/繊維化学】

- 2P075 骨ターゲティングを目指したペプチド修飾ポリ乳酸ナノ粒子の開発(日大院工,日大工)○山本真大,田口天志,室野井実紀,内野智裕,石原務
- 2P076 ホスファチジルコリン修飾タンパク質の細胞内デリバリー(日大院工,日大工)○月田秀幸,宗方泉稀,松本安平,石原務
- 2P077 Identification and characterization of a novel 5-aminosalicylic acid target protein in the treatment of inflammatory bowel disease(秋田大院理工)○伊藤和哉,涌井秀樹,尾高雅文,松村洋寿
- 2P078 Effect of Amylose/Amylopectin Ratio on the Critical Concentration of Starch Gelatinization of Borax-Containing Starch(日大工)○吉田知史,小林厚志
- 2P079 Synthesis and Cell Adhesion Properties of Poly(L-lactide-co-glycolide)-Poly(1,5-dioxepan-2-one) Multiblock Copolymers with Coupling Agent(秋田大理工,秋田大院理工,秋田大院医)○新谷絃,加賀谷理人,松本和也,寺境光俊,足田正喜,植木重治
- 2P080 Characterization of self-assembled β -carboxysome shell protein CcmO toward the development of novel biomaterials(秋田大院理工,東農工大院工)○大久保詠一郎,杉山由花,大畠昌也,中村隆太郎,松村洋寿,野口恵一,養王田正文,尾高雅文
- 2P081 Observation of Phase-separation on Sake Flavors-containing Cell-sized Liposomes for Quality Evaluation(青森産技八工研)○依田毅
- 2P082 Enhanced DNA Delivery to Glioma Cells by Cationic Polysiloxane Polymers Conjugated with Lactose of Glucose and EGFR-Binding Peptides(日大院工)○石井優弘,山本瑞紀,木原慶彦,市川司,根本修克,石原務,平野展孝,春木満
- 2P083 同一種のイネ澱粉内の BEIIb 酵素活性の差異が与える、アミロペクチン結晶構造への影響の解明(山形大院有機,(株)スターチテック)○八代和樹,松葉豪,中村保典
- 2P084 Electrolyte membrane composed of polymeric ionic liquid and ion conductive cross-linker for HT-PEFC(山形大院理工,山形大有機材料シスセ)○牧野勉,田端恵介,増原陽人
- 2P085 Order-order transition in acrylamide-based random copolymers.(山形大院理工,山形大理,立教大理,山形大院有機)○菊地真魚,大毛瑞貴,江部日南子,永野修作,西辻祥太郎,松井淳

- 2P086 Alkyl side chain dependance on formation of a lamellar structure in poly(N-alkyl acrylamides) using microwave-solvent annealing(山形大院理工,山形大理,立教大理)○大毛瑞貴,松井淳,江部日南子,永野修作
- 2P087 Polarized Microscopy Observation of poly(N-dodecyl acrylamide) Lamella Film Induced by Humid Annealing(山形大院理工,山形大理,立教大理)○小泉勇輝,松井淳,永野修作,江部日南子
- 2P088 側鎖に長鎖アルキルを有するアクリル系グラフトポリマーの構造解析(山形大院有機)○岡田朋也,松葉豪
- 2P089 重合誘起自己組織化(PISA)を利用したアクリロニトリル含有新規ナノ組織体の合成と発光性(山形大院有機)○小曾戸祐太,森秀晴
- 2P090 スルホニウムカチオン含有凝集誘起発光性ブロック共重合体と静電相互作用による発光性ポリプレックスの形成(山形大院有機)○野部祥太郎,森秀晴

【材料化学】

- 2P091 Introduction of functional groups on silicon rubber surface by corona discharge treatment and effect on electroless copper plating(岩手大院)平原英俊,○菅原達彦,桑静,會澤純雄
- 2P092 Study of copper plating on epoxy resin surfaces using different pretreatments(岩手大院)○佐藤雅也,桑静,會澤純雄,平原英俊
- 2P093 Effect of cleaning procedure on the adhesion between rubber compounds and a brass-plated steel cord(岩手大院,東京製綱(株))平原英俊,○杉澤周平,高橋清哉,桑静,會澤純雄,村上祐喜
- 2P094 Development of the colorimetric sweat sensor based on antigen-mediated aggregation of antibody-modified gold nanoparticles(山形大工,山形大院有機)○上田峻輔,塚田風吾,村上大成,長峯邦明
- 2P095 Dental materials of cellulose nanocrystal with large mechanical strength and remineralization(山大工,東北大多元研,山形大学院理工,山形大有機材料シスセ)○松尾兆優,有田稔彦,増原陽人
- 2P096 Development of Anticancer Prodrugs Selectively Activated by β -lactamase(東北大多元研)○上原満季,小関良卓,鈴木龍樹,ティゴックアンダオ,笠井均
- 2P097 Development of injectable silk hydrogel loaded with nano-prodrugs for controllable drug release(東北大多元研)○楊孟衡,ティゴックアンダオ,鈴木龍樹,小関良卓,笠井均
- 2P098 Liposomal modification of SN-38 Nano-Prodrugs and Evaluation of their Cellular Uptake(東北大多元研,北海道大電子研,Department of Chemistry, Division of Molecular Imaging and Photonics, KU Leuven)○數井武藏,ファーサイテエーマイトリイ,ベアトリスフォルトウーニ,小関良卓,ダオアンティンゴック,鈴木龍樹,雲林院宏,笠井均

- 2P099 Effect of additives to the synthesis of thermoplastic epoxy resin on physical properties(秋田大院理工)○山下剛司,伊藤脩平,寺境光俊,徳重英信,村岡幹夫
- 2P100 Synthesis and Photophysical Properties of Luminescent Oleo Materials(岩手大院総合)○松川奈愛,葛原大軌
- 2P101 Superionic conductivity at room temperature in silver iodide-silver oxyacid salts(山形大院理工)○内田憲利,松嶋雄太
- 2P102 Development of simple analytical method for methyl mercaptan using disulfide compounds in porous glass(東北工大,パナソニックホールディングス)○三浦秀太,加藤諒,浅沼光吾,及川一摩,丸尾容子
- 2P103 Evaluation of acetone detection method using porous glass impregnated with nitrophenylhydrazine compounds.(東北工大院工)○渡部聡大,辛島彰洋,丸尾容子
- 2P104 Development of noninvasive sweat lactate sensor composed of nonvolatile gel-based touchpad(山形大工,山形大院有機)○新村彩,下豊留嵩,小澤哲也,長峯邦明
- 2P105 Evaluation of oxygen evolution characteristics of Pb based anode containing composite oxide in acidic solution(秋田大院理工,秋田大理工)○細島洋喜,中田泰斗,山口大輝,田口正美,高橋弘樹
- 2P106 メカニカルアロイングを用いた Ag-Sn 合金の合成とその電気化学的 CO₂ 還元反応活性評価(東北大多元研)○上村赳之,岩瀬和至,本間格
- 2P107 MoS₂-modified Co₉S₈ 3D micro-flower as Anode Material for Sodium-ion Batteries with Superior Reversibility and Rate Capacity(弘前大院理工,Institute of Regional Innovation)○HeYang,AbudulaAbuliti,GuanGuoqing
- 2P108 Development of Oxygen-Reduction Reaction Catalysts using Prussian-Blue analog Nanoparticles as Precursors(山形大院理工)○安齋将,石崎学,栗原正人

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- 2P109 Electrochemical measurement of bacterial glucose metabolic activity via redox polymer(山形大院有機,山形大工)○植木青葉,松本大空,牧野大輝,長峯邦明
- 2P110 Electrochemical Characteristics of Solid-state Lithium Metal Batteries Based on PEBAX Electrolyte(弘前大理工,弘前大地域)○劉長林,NatthaphakKitiphapiboon,阿布里提,官国清
- 2P111 Characterization of cartilage differentiation process using scanning ion conductance microscope(東北大院環境,東北大院工)○望月紳司,野澤洗太,珠玖仁,伊野浩介
- 2P112 Effects of PtCo/Self-Standing Ketjen Black Sheet Catalysts on Electrochemical Properties of Lithium-Air Secondary Batteries(岩手大院理工,ALCA-SPRING)○栗田理奈,米田淑能,Md. MijanurRahman,脇田英延,宇井幸一,竹口竜弥

- 2P113 Electrochemical characterization of PtCo nanowire catalysts supported by different types of carbon for PEFC application(岩手大院理工)○才川雅登,Md. MijanurRahman,宇井幸一,竹口竜弥
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- 2P115 Effect of calcination time on electrochemical properties of perovskite oxide catalysts(岩手大院理工)○館龍星,ラフマンエムディ ミジャーナル,脇田英延,宇井幸一,竹口竜弥
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- 2P120 果実の劣化過程におけるビタミン C 簡易測定法の検討と劣化防止物質の探索(弘前中央高)○小野菜々子,小林七海,柴田匠美,佐藤望愛留
- 2P121 アルギン酸-酸化チタン系複合材料における光触媒活性の評価(弘前中央高)○藤田耀,喜多島悠暉,佐藤琉生
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- 2P125 おいしいお茶を入れようー水の温度、種類による抽出成分の変化ー(水沢高)○高橋凜,小野寺彩花,小林愛,佐藤春緋
- 2P126 セルロースの加水分解実験における硫酸濃度の検討(岩手大教育)○佐々木康成,佐合智弘
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