

ポスターセッション第1部

9月6日(土)15:30~17:00

【無機/分析/環境化学】

- 1P001 シモンコライト粉末の特性と難治性皮膚損傷に対する有意的効果(山形大院理工,山形大院理工,山形大院理工) ○清野明日美,永島美希,山本修
- 1P002 Enhanced Light Stability of Perovskite Quantum Dots via Alkali Metal Incorporation(山形大院理工,日本ゼオン,伊勢化学,山形大有機材料シスセ) ○大山祐愛,森川結策,柏木幹文,浅倉聡,増原陽人
- 1P003 A Novel Dual-Function of $K_xWO_3/g-C_3N_4/rGO$ Nanocomposite to Further Improve NIR Shielding and Photocatalytic Activity (IMRAM,AIMR) ○PuspasariVinda,JinQiuyu,OkawaAyahisa,HasegawaTakuya,YinShu
- 1P004 Layered Vanadium Phosphates with Large Platelet Morphology as Novel Colored Substrate-free Pearlescent Pigments(東北大多元研) ○程秋雨,大川采久,長谷川拓哉,殷シュウ
- 1P005 Synthesis and Properties Study of Novel CeO_2 -based Pearlescent pigments(東北大多元研,大東化成研究開発部) ○王志偉,程秋雨,大川采久,長谷川拓哉,後藤武弘,田中巧,殷シュウ
- 1P006 Revealing Dual Functionalities in an Ag_3PO_4 -Based Composite: Pollutant Removal and Gas Sensing(IMRAM) ○LarasatiRini,OkawaAyahisa,HasegawaTakuya,YinShu
- 1P007 Fabrication of oriented $AgSCN$ thin films via low-temperature solution process(山形大院理) ○小野寺優貴,石崎学,栗原正人
- 1P008 Continuous-scanning Raman Spectroscopy for Photosensitive Silver Compounds(山形大工,山形大院) ○松下千聖,松嶋雄太
- 1P009 Inactivation Effects of Surfactants on Enveloped Viruses / Correlation with the Rapture Behavior of Liposomal Bilayer Membranes(山形大院理工,山形大工) ○佐竹絵里奈,関口理希,佐々木貴史,吉田一也,矢野成和,遠藤昌敏
- 1P010 Facile Solvothermal Fabrication of Black Phosphorous for High-Sensitivity NH_3 Detection (東北大多元研) ○金秋宇,ミヨウライ,大川采久,長谷川拓哉,殷シュウ
- 1P011 Multinuclear Nickel Complexes Supported by Amido-1,8-Naphthyridine Ligands: Protonation-Induced Skeletal Diversification of Their Multimetallic Cores(東北大院理) ○小泉有葵,小室貴士,橋本久子
- 1P012 Selective and Facile Extraction of $LiCl$ from Natural Resources by Ditopic Receptors(山形大理,(株)レゾナック先端融合研) ○菅原嶺央,三室翼,平澤学,近藤慎一
- 1P013 Effect of polydopamine on the swelling ratio and proton conductivity of phosphorylated cellulose nanofibers(山形大院理工,山形大有機材料シスセ) ○長田卓士,増原陽人
- 1P014 Seven-Coordinate $SiNN$ -Pincer Ruthenium Complexes: Catalytic Activity for Triple Vinyl C-H Deuteration of Olefins with Benzene- d_6 (東北大院理) ○小室貴士,望月大輝,石渡望,飛田博実,橋本久子

- 1P015 Analysis of dam-stored sake using fluorescence and multivariate methods(東北工大院工,一ノ蔵,宮城産技センター) ○高橋晴樹,我妻七砂,木戸博,橋本建哉,丸尾容子
- 1P016 Differences in ionic radii of the lanthanide center enable precise separation of calcium-lanthanide-thiacalixarene complexes by capillary electrophoresis(東北大院環境) ○林明穂,唐島田龍之介,澤村瞭太,壹岐伸彦
- 1P017 Synchrotron X-ray analysis of GMS effects on structural dynamics and water-starch interactions in gelatinized wheat starch(東北大院環境,東北大SRIS,東北大多元研,理研ビタミン(株)) ○西田凌馬,二宮翔,安部孝紀,星野大樹,西堀麻衣子
- 1P018 Development of ternary heteronuclear complexes consisting of metal-gadolinium-thiacalixarenes for MRI contrast agent(東北大院環境) ○飛田浩人,唐島田龍之介,澤村瞭太,壹岐伸彦
- 1P019 Portable device for breath acetone using colorimetric porous glass chips(東北工大,東北工大院工) ○奥山大聖,村松友翔,但馬康介,長田真優,辛島彰洋,丸尾容子
- 1P020 手のひらサイズの水晶振動子質量センサーでの等温 PCR モニタリング(山形大工,山形大院有機材料システム,ピエゾパーツ(株),山形大教育推進) ○戸谷友香,熊谷英度,楊栄禄,鈴木雅史,早川祐介,古澤宏幸
- 1P021 Detection of lithium ion by two receptors(山形大院理,山形大理) ○大高玄己,近藤慎一
- 1P022 Measurement of Sup35 Aggregates in Microdroplets by Raman Spectroscopy(東北大多元研,東北大院薬,科学大総合研究院) ○石川帆乃果,川上純佳,丸山洋子,大橋祐美子,梶本真司,福山真央
- 1P023 Elution and reduction deposition of Rh,Pd,Pt from automotive catalysts by microwave irradiation(山形大院理工,山形大工) ○篠原凜久,斎藤海登,佐々木貴史,遠藤昌敏
- 1P024 Evaluation of the pH-Dependent Dye Adsorption Ability of Granular Cellulose for Metal Ion Removal Applications(一関高専) ○黒澤夢,照井教文
- 1P025 Characterization of Deteriorated Encapsulant Collected from Spent Photovoltaic Modules by Pyrolysis-gas Chromatography/Mass Spectrometry(東北大院環境,東北大院工) ○中嶋魁心,熊谷将吾,BorjiginSiqingaowa,PhanthongPatchiya,齋藤優子,白鳥寿一,吉岡敏明
- 1P026 Debromination and Metal Leaching Behavior of Waste Printed Circuit Boards through Wet Ball Milling(東北大院環境,東北大院工,(株)DOWA メタルマイン) ○林怜奈,齋藤優子,熊谷将吾,BorjiginSiqingaowa,PatchiyaPhanthong,中川原聡,渡邊宏満,大嶋祐介,吉岡敏明

【物理化学】

- 1P027 Quantum chemical calculations on the photodissociation of interstellar hydrocarbon $c\text{-C}_3\text{H}_2$ (弘前大院理工) ○小笠原嘉信,山崎祥平
- 1P028 Direct Tracking of Chain Extension Reactions of Supersulfides in Intracellular Lipid Droplets Using Raman Microscopy(東北大院薬) ○古賀圭祐,梶本真司,田原進也,中林孝和
- 1P029 Raman microscopy reveals the impact of nanosecond pulsed electric fields on neuronal differentiation(東北大院薬) ○入倉桜介,梶本真司,中林孝和

- 1P030 The molecular mechanism of RNA-mediated control of FUS phase separation and aggregation investigated by Raman microscopy(東北大院薬) ○小倉泰成,田原進也,松浦宇宙,梶本真司,中林孝和
- 1P031 1-ペンタノールの最低振動数ラマン散乱(山形大理) ○篠崎大河,天羽優子,臼杵毅,亀田恭男
- 1P032 Ligand control of Au₂₄Pt nanoclusters by introduction of dithiolate ligands for the creation of functional catalysts(東理大院理,東北大多元研) ○吉川咲良,新堀佳紀,川脇徳久,根岸雄一
- 1P033 IR Spectroscopy of gas phase protonated Water - Acetonitrile clusters: Comparison of condensed phase and gas phase(東北大院理) ○千葉康平,藤井朱鳥
- 1P034 米澱粉/グリセリン/水三成分系の混合状態(山形大院理工,山形大院有機) ○鳥井香耶,小田陽太,高橋敦郎,川名流魁,香田智則,矢野裕子,西岡昭博,野々村美宗
- 1P035 ヒト皮膚表面におけるエマルションの摩擦ダイナミクス(山形大院理工) ○高根澤颯太,野々村美宗
- 1P036 Friction dynamics of organogel-type cosmetics(山大院理工) ○佐々木鈴華,野々村美宗
- 1P037 Polymorphism of Cobalt Hydroxide Induced by Reactant Flux in a Gel-Based Reaction-Diffusion System(山形大院理工,山形大理) ○對馬琴梨,並河英紀
- 1P038 Effect of styrene oligomers on DOPC and DOPC/cholesterol monolayers(山形大理) ○沼澤紗夕,並河英紀
- 1P039 Interaction between Aspartame and Lipid Membranes under Coexisting Drug Molecules(山形大院理工,山形大理) ○鈴木日和,並河英紀
- 1P040 Characteristic Kinetics of the Liesegang Phenomenon for Calcium Phosphate(山形大理) ○播摩琴羽,並河英紀

【有機化学】

- 1P041 Synthetic study of polyol units of amphotericin B using an organocatalyst(東北大院理) ○二瓶聖河,河内元希,林雄二郎
- 1P042 Dihydrogen phosphate selective receptors based on conformational proofreading model(山形大院理工,山形大理) ○上野渚月,近藤慎一
- 1P043 Analysis of synergistic effect of *Clostridium thermocellum* cellulosome(日大・工・生命) ○渡部真大,鶴井皓大,岡井直子,春木満,平野展孝
- 1P044 Tetrafluorinated Thia[6]helicene S-Oxide with Silyl Protection as a Precursor to a Difluorinated Coronene(山形大院理工,山形大理) ○中尾歩睦,村瀬隆史
- 1P045 Development of Practical Organic Fluorescent Dyes with Improved Water Solubility(東北大院生命,慶応大院薬,東北大学際研,東北大院薬) ○阿部駿真,神保大地,大野久史,友重秀介,佐藤伸一,宮本和範,松本洋太郎,花岡健二郎,石川稔
- 1P046 Helix-to-Disc Conversion of Thia[6]helicenes into Coronenes Promoted by Terminal Functionalization(山形大学院理工,山形大学理) ○清野魁人,村瀬隆史
- 1P047 Synthesis and optical properties of azuleno[1,2,3-cd]benzo[*mn*]pyrendione(日大院工) ○石川龍之介,庄子卓

- 1P048 Synthesis and Crystal Packing of Fluorinated [4]Helicenes with More Fluorine than Hydrogen(山形大院理工,山形大院理工,山形大理) ○藤井英二,山野大河,村瀬隆史
- 1P049 Direct N-Acylation of Sulfoximines and Oxazolidinones(東北大院生命) ○河合佑直,梅原厚志,佐々木誠
- 1P050 NBS-promoted Glycosyl Transferring Reaction of α -Arbutin(日大院工,日大工) ○石山航成,黒子翔大,佐藤智哉,小林厚志
- 1P051 Synthetic Study on a Stable Dialkyloxophosphonium Ion(東北大院理) ○川城翔,石田真太郎,岩本武明
- 1P052 Counterselection system for deletion of cellulosomal gene in *Clostridium thermocellum*(日大・工・生命応用化) ○岡井直子,富田匠朗,春木満,平野展孝
- 1P053 Helicity induction of 2,2'-Binaphthyl Foldamer by Amino Acids(山形大院理,山形大理) ○大竹智之,近藤慎一
- 1P054 ビス-(2-アミドフェニル)ジスルフィド類を用いた 2-位置換ベンゾチアゾールの合成(山大院理工) ○水橋卓都,皆川真規
- 1P055 Gelation and dye removal properties of cystine derivatives bearing cholesterol moieties (山形大院理工) ○奈良貴一,伊藤和明
- 1P056 Dye removal by amphiphilic sugar derivatives through self-assembling process in water/organic solvent bi-phase system(山形大院理工) ○佐藤智哉,大森未久里,笹岡雄生,伊藤和明
- 1P057 Heat-set gelation and drug release properties of cholesterol derivatives bearing branched OEG chains(山形大院理工) ○平尾朱理,伊藤和明
- 1P058 Gelation and drug release properties of rice bran wax(山形大院理工,三和油脂(株)) ○鈴木俊一,藤田隆冴,高橋明日香,井上隆典,伊藤和明
- 1P059 Hydrogen Gas Production & Storage Cycle by Primary Alcohols/Aldehydes(東北大院理) ○伊藤知遊,市村拓弥,笠井均,岡弘樹
- 1P060 Design, synthesis and evaluation of tri-catechol derivatives for inhibiting amyloid- β aggregation(山形大院理工) ○滝口裕也,大内里菜,平田涼介,真壁幸樹,今野博行
- 1P061 Ambidextrous gelators based on amphiphilic L-cystine derivatives bearing di-Fmoc groups(山形大工,山形大院理工) ○佐藤有希乃,平尾朱里,伊藤和明
- 1P062 *N,N*-bridge-type triphenylborane nanoparticles: evaluation of their cellular uptake and *in vitro* neutron capture therapy efficacy(東北大院工,県立広島大生物資源,東北大多元) ○田窪晋也,北本雄一,小山育珠,小関良卓,谷田恵太,齊藤生真,ソンジノウ,笠井均,服部徹太郎
- 1P063 Synthesis and Substituent Effect of Bent-Shaped π -Conjugated Molecules Exhibiting Rotational Dynamics(山形大院有機,山形大工) ○新妻桃果,本山瑞基,鈴木克洋,岡田修司,山門陵平
- 1P064 Synthetic study of Trichoguizaibol E acid using Fmoc-SPPS with the ReD-A method(山形大院理工) ○毛束友郁,中島健太,土井一真,凌瀚宇,今野博行
- 1P065 Synthesis of Naphth[2,1-*a*]azulene Derivatives by Palladium-Catalyzed Intermolecular Cycloaddition Reaction of 2-Aryl-1-haloazulenes with Alkynes(弘前大院理工) ○釜菟巧,関口龍太,川上淳,伊東俊司
- 1P066 JOX-mediated Catabolism of Jasmonic Acid(東北大院理,東北大院生命) ○コウズイキ,松本幸太郎,三井麻里有,加治拓哉,大瀧健智,上田実

- 1P067 Improved targeting ability of DNA to glioma cells through multiple addition of DNA-linked EGFR-binding peptides(日大院工) ○浅田匠太郎,平野展孝,春木満
- 1P068 Stereoselective Michael Addition of Thiols Bearing *N*-Heteroaromatic Rings to Levoglucosenone and Their Cytotoxicity Against MCF7 (東北大院薬,東北大学際研) 田原淳士, ○巖夢雪,長谷川怜皇,土井隆行
- 1P069 Heteroatom-bridge-type triphenylboranes: evaluation of delayed fluorescence properties for plastic scintillator application(東北大院工,静岡大電子研) ○本田理紗,北本雄一,渥美舞彩,金成太陽,藤本裕,越水正典,服部徹太郎
- 1P070 AI-Driven Suzuki Cross Coupling Reaction Optimization for Development of HSP47 Inhibitors(東北大院薬) ○ゴネミュセフ,土井隆行
- 1P071 Palladium-Catalyzed C-H/C-H Coupling Reactions of Alkenes and (Benzo)thiophenes(東北大院工,東北大環境セ) ○高藤実結,田中信也,大井秀一
- 1P072 Palladium Catalyzed Direct Homocoupling of (Benzo)thiophenes(東北大院工,東北大環境セ) ○坂口竣亮,田中信也,大井秀一
- 1P073 Indium-Catalyzed Acylation of Alkenes with Mixed Acid Anhydrides(工学研究科,東北大学環境セ) ○佐野弘斉,田中信也,原部拓海,渡辺結衣,服部徹太郎,大井秀一
- 1P074 Sulfenylation of Alkenes with ArSO₂Cl and PPh₃ in the Presence of Base(東北大院工,環境セ) ○堅田遥斗,田中信也,秀一大井
- 1P075 Construction of *epsilon*-caprolactam biosynthesis pathway in *Escherichia coli*(日大・工・生命応用化) ○後藤優斗,岡井直子,春木満,平野展孝
- 1P076 IP*トリアゾールの合成と MIC-Pd 錯体の合成と 1,4-付加反応への利用(東京電大院工) ○正木啓悟,山本哲也

【化学工学】

- 1P077 粒子追跡法による軸方向の混合を抑制する攪拌翼形状に関する研究(山形大院理工,山形大工) 木村萌乃, ○宮下尚大,木俣光正
- 1P078 Yield Improvement and Aggregation Control of Perovskite Nanocrystals via Shaft Generator Redispersion(山形大院理工,伊勢化学,山形大有機シスセ) ○後藤真,大下直晃,浅倉聡,増原陽人
- 1P079 Laminar Forced Convection Heat Transfer in Circular Channels equipped with a Disk-Shaped Turbulence Model(山大院理工) ○小室奏大,門叶秀樹
- 1P080 Visualization of Secondary Flow and Evaluation of Heat Transfer Characteristics in Helical Coils Using High-Viscosity Fluids(山大院理工) ○菅原愛,門叶秀樹
- 1P081 Estimation of pressure drop of packed-beds with micron-sized particles(東北大院工,東北大 FRIS) ○西田裕紀,ウェリングトム,渡部花奈子,廣森浩祐,波形光,菅恵嗣,長尾大輔
- 1P082 Effect of ash volatile matter on combustion rate of high VM coke under low-oxygen conditions (秋大院理工,秋大理工,秋大院理工,秋大院理工,日本製鉄(株)) ○林正晃,宇佐見優樹,中村彩乃,村上賢治,松村勝
- 1P083 水簸に対応する廃車載回路基板の効率的な粉碎に関する研究(山形大院理工) ○大友一志,木俣光正

- 1P084 Formation and property control of plastic crystals in two-component systems(岩手大院理工,秋田大) ○清水瑠夏,土岐規仁,横田政晶,丹野剛紀
- 1P085 Constructing HZSM-5 zeolites with ultra-large hollow hierarchical pores for bio-oil upgrading(弘大理工,弘大地域) ○张志華,贾鹏龍,PATREEYAPANPIAN,周文佳,阿布里提,官国清
- 1P086 Improvement and Control of Supercooling Properties of Erythritol(岩手大院理工) ○小林潤平,横田政晶,土岐規仁
- 1P087 Properties of L-Phenylalanine hydrate crystals produced by ternary crystallization(岩手大院理工) ○池田龍成,横田政晶,土岐規仁
- 1P088 Molecular dynamics study of ligand stripping at surface-modified Ag/solvent mixture interface(東北大院工,農工大院農) ○澤内寛人,斎藤高雅,山下翔平,岡田洋平,庄司衛太,久保正樹
- 1P089 Spectral Switching by Thermoresponsive PNIPAM/SiO₂ Pickering Emulsion(山形大学院) ○小泉佑輔,長田卓士,野々村美宗,増原陽人,江目宏樹
- 1P090 Co-Gasification of Biomass-Derived Pyrolysis Products and Char in a Non-Catalytic Two-Stage Reactor System with Low Tar Yield(弘大理工,弘大地域) ○周小文,朱蓮峰,YUSHANIALAHAKOON,阿布里提,官国清
- 1P091 かん水の経時変化およびカルシウムの回収に関する研究(山形大院理工) ○皆川文音,木俣光正

【高分子化学/繊維化学】

- 1P092 Realizing Highly Efficient Polysaccharide Acetylation with Zinc Halide as Solubilizer and Catalyst (日大院工,日大工) ○高木佳明,小林厚志
- 1P093 オリゴ核酸コンジュゲートの細胞内移行性評価(日大院工,日大工) ○松崎詩彦,石原務
- 1P094 高浸透圧環境に適応する過程におけるグリセロールチャンネル開口因子 Rgc2 の調節機構(日大院工,日大工) ○佐竹弘太郎,小原有貴,岸努
- 1P095 高浸透圧ストレス適応過程における HOG 経路の活性制御機構の解明(日大工,日大工) ○吉川京佑,岸努
- 1P096 Synthesis of heat-resistant poly (arylene vinylene ketone) fluorescent materials with non-coplanar structures(山形大院有機) ○大川聖弥,前山勝也
- 1P097 Synthesis of poly(aryl ether sulfone) with basic moieties(岩手大院理工) ○川田結葵,芝崎祐二,塚本匡
- 1P098 スルホン酸を導入した脂肪族ポリアミドの合成(岩手大院理工) ○中原実結,芝崎祐二,塚本匡
- 1P099 分子内環化反応による含窒素複素環ポリケトンの合成と特性評価(山形大院有機) ○三瓶寛人,久保田拓人,岡田修司,山門陵平
- 1P100 Thermo-oxidative Degradation Behaviors of Polyamide 6 Hot-pressing Films(山形大院,山形大 GMAP) ○和地颯汰,西辻祥太郎,小林豊,大槻安彦,伊藤浩志,松野寿生
- 1P101 Anion ring-opening copolymerization of a tricyclic *trans*-5-membered cyclic carbonate derived from *myo*-Inositol.(山形大学院工) ○丹野颯人,大嶋悠斗,平賀翔大,羽場修

- 1P102 自己修復性を示す新規半導体グラフト共重合体の合成(山形大院有機材料)
○村上力玖,東原知哉
- 1P103 Synthesis of tough elastomer materials from hydrogels(弘前大理工,弘前大
院理工) ○山下七星,中嶋脩汰,吳羽拓真
- 1P104 Controlled Radical Polymerization Using Trithiocarbonate Chain Transfer
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- 1P105 様々な二重結合間距離を有するマルチビニルポリマーの合成と ATRP 反応
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- 1P106 Self-assembled Lamellar Film of Imidazole-based Statistical Copolymer for
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- 1P107 Ion-conductive polyelectrolytes from *N*-vinylcaprolactam-based deep
eutectics metal species(山形大院有機) ○佐々木裕哉,森秀晴
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- 1P109 Structural analysis of crystal lattice in the blend of syndiotactic polystyrene
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- 1P111 Creation of Conducting Polymers as Photo/Electrocatalysts for Oxygen
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- 1P112 Controlled Marine Degradation of poly(ϵ -caprolactone) Films Based on
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GMAP,CERI,愛媛大院理工) ○河本遼,田口浩然,菊地貴子,日向博文,西辻祥
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- 1P113 Surface Degradation Behaviors of Poly(ϵ -caprolactone) Thin Films by
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- 1P115 Fabrication of Uniform Perovskite-Organic Charge-Transfer Complex Films
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生,松井淳,江部日南子
- 1P116 Pyrene Phosphorescence at Room-Temperature via a Perovskite Triplet-
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- 1P118 半透明高結晶単層カーボンナノチューブ電極を用いたオール無機ペロブスカイト太陽電池(山形大院理工) ○高野裕人,石崎学,栗原正人
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- 1P121 Mechanical Reinforcement of Micro Honeycomb-Structured Cellulose Composite Material(東北大多元研,東北大 AIMR) ○中辻博貴,リウミンハオ,ティアムンリ,井上真隆,パンジェンゼ,西原洋知
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- 1P123 The synthesis of copper nanocluster-based MOFs harnessing for electrocatalytic CO₂ reduction reaction(東北大院理,東北大多元研) ○中谷利毅,近藤歩,ダスサイカット,川脇徳久,根岸雄一
- 1P124 Effect of out-of-plane metal deposition on asymmetric metal/amine modification of carbon surfaces using bipolar electrochemistry(山形大院有機) ○渡邊諒,沖本治哉
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- 1P128 3-ジシアノメチレンベンゾカルコゲノフェン構造で終端した非フラーレンアクセプターの電子構造(東北大院理,理研 CEMS,東北大 AIMR) ○柴橋健亮,川畑公輔,瀧宮和男
- 1P129 Fast ionic conduction in marine resources mixtures(山形大院理工,山形大院理) ○近野陽大,臼杵毅,笠松秀輔
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- 1P132 ポータブル摩擦計を用いた低温環境下における摩擦特性評価手法の検証(鶴岡高専,津山高専) ○矢島海地,上條利夫,佐藤貴哉

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- 1P133 Crystal Structure Changes of Layered Perovskite K₂La₂Ti₃O₁₀ upon Proton and Hydride-Ion Incorporation(東北大工,東北大院工) ○丸山菜緒,池永美宙,石井暁大,高村仁

- 1P134 Design of Highly Conductive Ionogel Electrolytes Using Acrylate-based Polymer (岩手大院理工) 宇井幸一, ○松村拓海, 芝崎祐二, 竹口竜弥
- 1P135 Electrochemical Behavior of LiCoO₂ Electrode in Imidazolium-Based Ionic Liquid Electrolyte (岩手大院理工) 宇井幸一, ○市川俊介, 竹口竜弥
- 1P136 Investigation of thermal stability of Ni-based lithium-ion battery during its external short circuit(弘前大院理工,長岡技科大) ○工藤圭亮, 白仁田沙代子, 梅田実, 松田翔風
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- 1P142 植物保護細菌の増殖活性及び膜電位に対する電気刺激の影響評価(山形大院有機, 山形大工) ○上田陸, 花村優奈, 長峯邦明
- 1P143 細胞外電極を用いた細菌膜電位の電気化学的制御の検討(山大工, 山形大院有機) ○花村優奈, 上田陸, 長峯邦明
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