

: 우수논문발표상 응모

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좌장: 김종호, 박정태

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정래현, Vikram Thapar*, 김슬기**, 김세은**, 장예찬***, 이기라****, 김진웅****, 허수미*****, 전남대학교; *전남대학교 고분자수치모사연구실; **성균관대학교; ***포항공과대학교; ****포항공과대학교 화학공학과; *****성균관대학교 화학공학과; *****전남대학교 고분자공학과
- 1PS-195** Room-Light and Sun-Light Activatable Wearable Photonic Patch for Photobiomodulation and Photochemical Tissue Bonding
조경주, 한세광, POSTECH
- 1PS-196** In-Situ Crosslinkable Thermogel for 3D Bioprinting
조민희, 김성은, 박수아*, 허강무, 충남대학교; *한국기계연구원
- 1PS-197** Precision-Activated Masked Antibodies Reduce Immune Toxicities in Checkpoint Blockade Cancer Therapy
조소현, 박재형, Ghosh Torsha, 성균관대학교
- 1PS-198** Enhancing Tumor-Secreted Extracellular Vesicle Immunogenicity for Cancer Vaccine Development through Endoplasmic Reticulum Stress Preconditioning
조유진, 박재형, 한경희, 김찬호, 성균관대학교
- 1PS-199** Multiscale Biomechanical Gradient-Driven Hierarchical Tissue Interfaces for Osteochondral Defect Repair and Disease Modeling
최유림, 이준민, Pohang University of Science and Technology (POSTECH)
- 1PS-200** Ultrathin Hydrogel Polymer Coatings Synthesized *via* ICVD for Long-term Implantable Neural Probes
최윤영, 전우진*, 조영학**, 김학준***, 김대훈****, 김예지*****, 문태진**, 최인희***, 유영민*****, 임성갑*****, 박성준*, 성혜정**, KAIST/KIST; *서울대학교; **KIST; ***서울시립대학교; ****KAIST; *****KRIT
- 1PS-201** Bioresorbable Electrical Stimulator with Isograft for Maximized Functional Recovery
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- 1PS-202** Reversible Adhesion Control *via* Oxide Layer Modulation in Liquid Metal
강현수, 이지은, 우상혁, 중앙대학교
- 1PS-203** Sustainable Fabrication of Uniform Colloidal Lignin Spheres *via* Solvent Recovery
구자경, 황의석, 박인경, 남재도, 성균관대학교
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김경완, 김태안*, 안석균, 부산대학교; *한국과학기술연구원
- 1PS-205** GHK Tripeptide Functionalized with Self-assembled Peptide-gold Nanoparticles for Therapeutic Applications
김리서, 전나영, 한은희*, 이은지, 광주과학기술원; *한국기초과학지원연구원
- 1PS-206** Asynchronous Fluorescence and Structural Color for Advanced Multilevel Sensing and Encryption
김수환, 이선주*, 김태빈*, 박철민*, 연세대학교 나노고분자재료연구실; *연세대학교
- 1PS-207** Fabrication of MXene Films and Flexible Patterned Supercapacitors Using Meniscus Dragging Deposition
김승연, 이용희, 한구희, 경북대학교
- 1PS-208** Water-in-oil High Internal Phase Pickering Emulsions Stabilized by TiO₂: Influence of Particle Shape on Structural and Mechanical Properties
김예린, 김규한, 서울과학기술대학교
- 1PS-209** Enhancing Luminous Efficiency in Flexible OLEDs Using Self-Assembled DNA Films as a Light Scattering Layer
김주리, 연혜정, 최혜령*, 최경철, 윤동기, 한국과학기술원; *분당서울대병원
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김지성, 이기라, 포항공과대학교
- 1PS-211** Colloidal Nanostructures for Enhancing Bioavailability of Poorly Soluble Drugs
남유리, 박찬호, 하유진, 가천대학교
- 1PS-212** Effect of Nanofiller on Photocuring and Printability in DLP 3D Printing of Polyurethane Elastomer Resins
박성현, 양현승*, 정과정*, 박찬호, 가천대학교; *한국전자기술연구원
- 1PS-213** Electrochemically Deposited Nanoarchitected Nanograting Mesoporous Metal Film Using Block Copolymer Micelle for Ultra-sensitive SERS Sensor
박지수, 김정훈, 김가현, 김진보, 연세대학교
- 1PS-214** Underwater Microplastics Adhered and Absorption *via* Dynamic Imine Bond Crosslinking Polymer
박현웅, 박준용, 우상혁, 중앙대학교
- 1PS-215** Rectification in Cs₄PbBr₆/CsPbBr₃ Metal Halide Perovskite Heterojunction Based on Ionic Migration
백상은, 강영중*, 한양대학교; *한양대학교 화학과
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- 1PS-217** 세포 손상 완화를 위한 해동용 2D 맥신 광열 나노시트
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심다혜, 박경태, 연세대학교
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안수민, 윤홍식, 이영준*, 한양대학교; *한국과학기술연구원
- 1PS-220** Enzymatic Reaction-Assisted Low-Voltage Hydrogen Production
양세윤, 이지은, 우상혁, 중앙대학교

- 1PS-221** Development of Paraben-Conjugated Sunscreen Particles to Reduce Human Paraben Exposure
이양우, 김지원*, 최종훈*, 구형준, 서울과학기술대학교; *중앙대학교
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이영준, 김정욱*, 송광호*, 엄정인*, 서강대학교; *서울대학교
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이주영, 구강희, 울산과학기술원
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이혜주, 박준우*, 이재준*, 김대석, 국립부경대학교; *부산대학교
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장윤아, 박재현*, 이영준**, 박찬호, 가천대학교; *더카본스튜디오; **한국과학기술연구원
- 1PS-228** Isolation and Drug Loading of Bovine Milk-Derived Extracellular Vesicles
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- 1PS-234** Development of an Infrared-Responsive Actuator Fibers with Polydopamine Coating Based on Photothermal Effects
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홍지환, 송인우, 조윤중, 이진홍, 백명진, 이동욱, 울산과학기술원
- 1PS-237** Synthesis of Hollow Silica Nanoparticles with Controllable Size and Structure
황의석, 구자경, 백재준, 조재원, 주현준, 박민경, 김수찬, 남재도, 성균관대학교

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안소연, 강동구, 인천대학교
- 1PS-241** Recyclable Poly(β -amino esters) Covalent Adaptable Network Based Solid Polymer Electrolyte for Lithium Metal Batteries
양민욱, 전용하*, 최우혁*, 김채민, 부산대학교; *인하대학교
- 1PS-242** Stepwise Screening of PHA-producing Strains and Optimization of PHA production processes: Exploring Efficient Cultivating Conditions
양채연, 강동구, 인천대학교
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이용재, 구준모*, 이진영**, 이가희**, 전소영*, 충남대학교; *충남대학교 고분자공학과; **충남대학교 신소재공학과
- 1PS-244** Effect of Pressure on Bulk Depolymerization of Thiocarbonate Terminated PMMA
이재원, 광영제*, 숭실대학교; *숭실대학교 신소재공학과
- 1PS-245** Biodegradation of Poly(lactic Acid) by Superworms (*Zophobas atratus*) and Their Gut Microbiota
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장백균, 이동윤, 김효윤, 정예원, 박세계, 경북대학교
- 1PS-247** Functional Aerogels for Renewable Solar Energy Driven Desalination: Optimization of Single and Hybrid Systems
장지은, 김선우, 이동하, 김동균, 박지수, 김정환, 김정환, 연세대학교
- 1PS-248** $\text{Ca}(\text{OH})_2$ Photocatalyst for Eco-friendly Decomposition of Polybutylene Adipate Terephthalate (PBAT) Mulching Film
장희주, 강동구, 인천대학교
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조하영, 남기호, 경북대학교
- 1PS-250** Enhancing Elasticity in Bio-Based Polyesters: FDCA-Derived Copolyesters

with Odd-Even Structural Effects

최세훈, 황동기*, 강상은**, 유경철***, 구준모**, 충남대학교; *충남대학교 바이오응용 화학연구소; **충남대학교 유기재료공학과; ***충남대학교 신소재공학과

- 1PS-251** Polarity-Switchable Maleic Anhydride-Containing Polymer for Eco-Friendly and Surface-Adaptable Pressure-Sensitive Adhesives
최윤영, 박준용*, 전혜리*, 우상혁*, 김채민, 부산대학교; *중앙대학교

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Sujoy Bandyopadhyay, Hanyang University
- 1PS-253** Tough and Highly Conductive Solid Electrolytes for Lithium-Sulfur Batteries
강지수, 김덕준, 성균관대학교
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강현서, 이상영, 연세대학교
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김동국, 경성현*, 김정훈*, 연세대학교; *연세대학교 화공생명공학과
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김민수, 권정현, 김영준, 이근형, 인하대학교
- 1PS-258** High-Performance Alkaline Zinc-Iron Flow Batteries Using a Blended SPEEK/PS Membrane
김민지, 잔나 시파툴, Sangaraju Shanmugam, 대구경북과학기술원(DGIST)
- 1PS-259** Scalable Manufacturing of Low-Tortuosity, Solvent-Free Thick Electrodes Controlled by Conductive Agents for High-Energy Lithium-Ion Batteries
김병진, 유영재, 중앙대학교
- 1PS-260** Room Temperature Initiator-Free Self-Catalyzed Crosslinking of Zwitterionic Gel Electrolyte for Stable Zinc Metal Batteries
김세현, 이상엽, 한동엽, 손무근*, 정태훈, 지형민, 강준희*, 박수진, 김연수, POSTECH; *부산대학교
- 1PS-261** Bottlebrush-structured Artificial Solid Electrolyte Interphases for Long-life Lithium Metal Batteries
김승현, 심지민, 서울대학교
- 1PS-262** Lithium Silicate/PEO-based Hybrid Electrolytes for High-Performance All-Solid-State Lithium Metal Batteries Enabling Stable SEI Layer Formation and Ultra-Long Cycle Life
김지환, 장민철, 전남대학교
- 1PS-263** Introduction of a Facile Plasma Treatment Method on Gel Electrolyte Improving the Electrochemical Performance
김찬교, 제갈석, 라윤호, 윤창민, 인하대학교
- 1PS-264** Ethanol Purification Enables High-quality α -phase FAPbI_3 Perovskite Microcrystals for Commercial Photovoltaic Applications
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- 1PS-265** Composite Gel Polymer Electrolytes with Enhanced Thermal and Mechanical Stabilities for Sodium Metal Batteries
서신영, 심지민, 서울대학교
- 1PS-266** Development of a Cross-linked Self-healing Polymer Binder for High-performance Silicon Anodes
송민주, 송우진, 충남대학교
- 1PS-267** Development of Silicon/Carbon Composite Anodes Derived from Lignin-Based Precursors for Advanced Lithium-Ion Batteries
양채원, 김영빈, 김여원, 엄태식, 홍익대학교
- 1PS-268** Redox-Active Polyimide Porous Foam for a Flexible Battery Electrode with High-Rate Capability
여주환, 김윤호*, 권지연, 한국과학기술연구원; *한국화학연구원
- 1PS-269** Structure-Property Relationships of Highly Adhesive Polymer Binders for High-Nickel Cathode Materials
원광빈, 심지민, 서울대학교
- 1PS-270** Scalable Synthesis of Heterolayered Hybrid Electrodes for Energy Storage
윤현승, 김수현, 유재우, 주민성*, 윤현석, 전남대학교 고분자융합소재공학부; *전남대학교 고분자공학과
- 1PS-271** Interface Engineering of Si-based Anodes with Fluorinated Binder Enabling Lean-additive Lithium-ion Batteries
이상원, 박수진, 포항공과대학교
- 1PS-272** Sequence-Controlled Polynorbornene Binders for Enhanced Silicon Anode Performance in Lithium-Ion Batteries
이승운, 안석균, 부산대학교
- 1PS-273** Development of a Self-Healing PAA-APDS Binder for High-Performance Silicon Anodes Using Reversible Disulfide Bonds
이해영, 송우진, 충남대학교
- 1PS-274** Eutectic Solution-Based Anti-Freezing Flexible Polymer Electrolyte for High-Performance Zinc-Ion Batteries
이효철, 김덕준, 성균관대학교
- 1PS-275** Nafion-Based Membranes for Zn- Br_2 Redox Flow Batteries: The Critical Role of Solvent in Nafion/MOF Compatibility
잔나 시파툴, 김민지, Sangaraju Shanmugam, 대구경북과학기술원(DGIST)
- 1PS-276** Ion Diffusion Mechanisms in PEO-Based Electrolytes: A Computational Approach
정승원, 손창윤*, POSTECH; *서울대학교

- 1PS-277** High Performance Li-Organic Batteries Achieved by Rational Design of Phenoxazine-Based Cathode Materials for Multi-Electron Redox
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- 1PS-278** Cross-Linked Binder Materials with Enhanced Mechanical Properties and Adhesion for High-Nickel Cathode Materials
조민서, 심지민, 서울대학교
- 1PS-279** Effective Grain Growth and Stoichiometry Preservation *via* Anti-Solvent Treatment Methods in Perovskite Optoelectronic Devices
채가윤, 임지현, 김병기, 장웅식, 왕동환, 중앙대학교
- 1PS-280** Synergistic Improvement of Acidic Water Splitting through Chiral Plasmonics and Iridium Single-Atom Catalysts
채경희, 김동하, 이화여자대학교
- 1PS-281** Enhancement of Wide Bandgap Perovskite Photoanode with Additive into Antisolvent
최수영, 이택호, 부산대학교 화학소재학과
- 1PS-282** Moisture-Driven Hydrovoltaic Systems Enhanced by Graphene Oxide
한다연, 정인우, 경북대학교

: 우수논문발표상 응모

포스터발표(II)_4월 17일(목)

(17:00 ~ 18:30)

좌장: 김 환, 양지웅

우수논문발표상

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- 2PS-2** Organic Heterojunction Nanoparticles for Enhanced Hydrogen Evolution *via* Spontaneous Charge Generation
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