
Original Papers

- O-1** Chain Extension Epoxide Polymerization to Well-Defined Block Polymers Using a N-Al Lewis Pair Catalyst
Keever, J. M.; Pedretti, B. J.; Brotherton, Z. W.; Imbrogno, J.; Kataoka, Y.; Baltzegar, J.; Kanbayashi, N.; Lynd, N. A.
J. Polym. Sci. **2024**, *62*, 2527–2538.
- O-2** Synthesis of Expanded Poly(L-amino acid) Containing Phenylethynyl(terpyridine)platinum(II) Moieties
Okamura, T.; Okada, A.; Onitsuka, K.
Macromolecules **2024**, *57*, 4184–4191.
- O-3** Direct Introduction of Cysteine Derivatives into the Chain-End of Helical Poly(quinoline-2,3-diylmethylene)s: Densely Packed Monolayers on Au Substrates
Kanbayashi, N.; Odagaki, S.; Kobayakawa, N.; Kato, S. H.; Onitsuka, K.
Macromolecules **2024**, *57*, 7787–7797.
- O-4** Side-Chain Modification of π -Stacked Helical Poly(quinoline-2,3-diylemethylene) via Thiol-Ene Reaction
Kanbayashi, N.; Odagaki, S.; Onitsuka, K.
Polym. Chem. **2024**, *15*, 3563–3571.
- O-5** Synthesis of an Alternating Copolymer of the Dense 1,2,3-Triazole Backbone Carrying *t*-Butyl Ester and Nitrile Side Chains
Xu, L.; Nakahata, M.; Kamon, Y.; Hashidzume, A.
J. Polym. Sci. **2024**, *62*, 937–945.
- O-6** Interaction of Cyclodextrins with Amphiphilic Alternating Cooligomers Possessing the Dense Triazole Backbone
Yamamoto, T.; Taguchi, R.; Yan, Z.; Ejima, R.; Xu, L.; Nakahata, M.; Kamon, Y.; Hashidzume, A.
Langmuir **2024**, *40*, 7178–7191.
- O-7** Synthesis of an Alternating Polycation with the Dense 1,2,3-Triazole Backbone
Omae, T.; Nakahata, M.; Kamon, Y.; Hashidzume, A.
Synlett **2024**, *35*, 1301–1305.
- O-8** Density Function Theory Study on the Energy and Circular Dichroism Spectrum for Methylene-Linked Triazole Diads Depending on the Substitution Position and Conformation
Nakahata, M.; Hashidzume, A.

- O-9** Hyperconfined Bio-Inspired Polymers in Integrative Flow-Through Systems for Highly Selective Removal of Heavy Metal Ions
Nakahata, M.; Sumiya, A.; Ikemoto, Y.; Nakamura, T.; Dudin, A.; Schwieger, J.; Yamamoto, A.; Sakai, S.; Kaufmann, S.; Tanaka, M.
Nat. Commun. **2024**, *15*, 5824.
- O-10** Exploring Strain-Level Diversity in the Gut Microbiome through Mucin Particle Adhesion
Nishiyama, K.; Murakami, R.; Nakahata, M.; Zhou, B.; Hashikura, N.; Kaneko, H.; Namai, F.; Ikeda-Ohtsubo, W.; Xiao, J. Z.; Kitazawa, H.; Odamaki, T.
Appl. Environ. Microbiol. **2024**, *90*, e01235-24.
- O-11** Additive-Assisted Macroscopic Self-Assembly and Control of the Shape of Assemblies Based on Host–Guest Interaction
Hashidzume, A.; Itami, T.; Nakahata, M.; Kamon, Y.; Yamaguchi, H.; Harada, A.
Sci. Rep. **2024**, *14*, 20676.
- O-12** Enzymatically Cross-Linkable Sulfated Bacterial Polyglucuronic Acid as an Affinity-Based Carrier of FGF-2 for Therapeutic Angiogenesis
Goto, R.; Nakahata, M.; Delattre, C. Petit, E.; Boutachfaiti, R. E.; Sakai, S.
J. Biosci. Bioeng. **2024**, *138*, 541–547.
- O-13** Sugar-Derived Cyclic Acetals as Comonomers for Cationic Copolymerization with Vinyl Ethers
Katto, A.; Aoshima, S.; Kanazawa, A.
Macromolecules **2024**, *57*, 6255–6266.
- O-14** Cationic Alternating Copolymerization of Vinyl Esters and 3-Alkoxyphthalides: Side Chain-Crosslinkable Polymers for Acid-Degradable Single-Chain Nanoparticles
Kamigaki, K.; Aoshima, S.; Kanazawa, A.
ACS Macro Lett. **2024**, *13*, 754–760.
- O-15** Metal-Free, Photoinitiated Cationic Terpolymerization of Vinyl Ethers, Oxiranes, and Ketones: Simultaneous Control of Monomer Sequence and Molecular Weight by the Formation of Long-Lived Propagating Species
Eguchi, Y.; Kanazawa, A.; Aoshima, S.
Macromolecules **2024**, *57*, 3346–3357.

- O-16** Dual Control of Stereoregularity and Molecular Weight in Cationic Polymerization of Vinyl Ether by Tunable TADDOLs/TiCl₄ Initiating Systems
Watanabe, H.; Mishima, Y.; Kanazawa, A.; Aoshima, S.
Polym. Chem. **2024**, *15*, 1062–1069.
- O-17** Cationic Ring-Opening Copolymerization of a Cyclic Acetal and γ -Butyrolactone: Monomer Sequence Transformation and Polymerization–Depolymerization Control by Vacuuming or Temperature Change
Takebayashi, K.; Kanazawa, A.; Aoshima, S.
Polym. J. **2024**, *56*, 309–317.
- O-18** Viscoelastic and Birefringence Relaxation of Individualized Cellulose Nanofibers in the Dilute and Semidilute Regions
Tanaka, R.; Inoue, T.
Biomacromolecules **2024**, *25*, 5718–5728.
- O-19** Time–Temperature and Time–Electric Field Superposition for Integrated Currents in Polymer Insulating Materials: The Role of Charge Injection and Anomalous Mobility
Sekiguchi, Y.; Urakawa, O.; Inoue, T.
Macromolecules **2024**, *57*, 6769–6778.
- O-20** Reversible Host-Guest Crosslinks in Supramolecular Hydrogels for On-Demand Mechanical Stimulation of Human Mesenchymal Stem Cells
Linke, P.; Munding, N.; Kimmle, E.; Kaufmann, S.; Hayashi, K.; Nakahata, M.; Takashima, Y.; Sano, M.; Bastmeyer, M.; Holstein, T.; Dietrich, S.; Tidow, C. M.; Harada, A.; Ho, A. D.; Tanaka, M.
Adv. Healthc. Mater. **2024**, 2302607.
- O-21** Absorption of water molecules on the surface of stereocomplex-crystal spherulites of polylactides: An in-situ FT-IR spectroscopy investigation
Kokuzawa, T.; Hirabayashi, S.; Ikemoto, Y.; Park, J.; Ikura, R.; Takashima, Y.; Higuchi, Y.; Matsuba, G.
Polymer **2024**, *298*, 126922.
- O-22** Multiscale characterization and design of cellulose composites based on polymers with movable cross-links
Fujiwara, Y.; Luo, C.; Ikura, R.; Takashima, Y.; Uetsuji, Y.
Polymer **2024**, *291*, 126603.

- O-23** Relationship between the nanometer-scale structures of amylopectin molecules and temperature dependence of internal structures of starch granules in endosperm of starch branching enzyme 2b (be2b) allelic mutant lines from japonica rice
Yashiro, K.; Sato, S.; Kondo, Y.; Nakamura, Y.; Yano, H.; Koda, T.; Nishioka, A.; Takashima, Y.; Matsuba, G.
Results Chem. **2024**, *9*, 101660.
- O-24** Improvement in Cohesive Properties of Adhesion Systems using Movable Crosslinked Materials with Stress Relaxation Properties
Qian, Y.; Ikura, R.; Kawai, Y.; Park, J.; Yamaoka, K.; Takashima, Y.
ACS Appl. Mater. Interfaces **2024**, *16*, 3935–3943.
- O-25** Recyclable Tough Adhesive Sheets with Movable Cross-links for Sustainable Use
Kosaba, S.; Ikura, R.; Yamaoka, K.; Arai, T.; Takashima, Y.
ACS Appl. Mater. Interfaces **2024**, *16*, 25393–25403.
- O-26** Viscoelastic Behavior for Optimizing the Self-Healing of Gels with Host-Guest Inclusion Complexes
Yamaoka, K.; Ikura, R.; Osaki, M.; Shirakawa, H.; Takahashi, K.; Takahashi, H.; Ohashi, Y.; Takashima, Y.
Polym. J. **2024**, *56*, 1031–1039.
- O-27** Relation between the Water Content and Mechanical Properties of Hydrogels with Movable Cross-Links
Nishida, K.; Ikura, R.; Yamaoka, K.; Urakawa, O.; Konishi, T.; Inoue, T.; Matsuba, G.; Tanaka, M.; Takashima, Y.
Macromolecules **2024**, *57*, 7745–7754.
- O-28** Reinforcement and Controlling the Stability of Poly(ϵ -caprolactone)-Based Polymeric Materials via Reversible and Movable Cross-Links Employing Cyclic Polyphenylene Sulfide
Ding, Y.; Ikura, R.; Yamaoka, K.; Nishida, K.; Sugawara, A.; Uyama, H.; Nara, S.; Takashima, Y.
ACS Macro Lett. **2024**, *13*, 1265–1271.
- O-29** Mechanical Properties and Molecular Adhesion Exhibited by Inorganic-Organic Composite Elastomers
Yamashita, N.; Ikura, R.; Yamaoka, K.; Kato, N.; Kamei, M.; Ogura, K.; Igarashi, M.; Nakagawa, H.; Takashima, Y.
Polym. Chem. **2024**, *15*, 4196–4203.

- O-30** Structural Analysis of S-ring Composed of FliFG Fusion Proteins in Marine *Vibrio* Polar Flagellar Motor
Takekawa, N.; Nishikino, T.; Kishikawa, J-I.; Hirose, M.; Kinoshita, M.; Kojima, S.; Minamino, T.; Uchihashi, T.; Kato, T.; Imada, K.; Homma, M.
mBio **2024**, *15*, e0126124.
- O-31** Structural Insight into Sodium Ion Pathway in the Bacterial Flagellar Stator from Marine *Vibrio*
Nishikino, T.; Takekawa, N.; Kishikawa, J-I.; Hirose, M.; Kojima, S.; Homma, M.; Kato, T.; Imada, K.
Proc. Natl. Acad. Sci. U S A. **2025**, *122*, e2415713122. Epub **2024** Dec 30.
- O-32** Controlled Photoinduced Electron Transfer via Triplet in Polymer Matrix Using Electrostatic Interactions
Cao, Y.; Sotome, H.; Kobayashi, Y.; Ito, S.; Yamaguchi, H.
J. Photochem. Photobiol. A **2024**, *452*, 115593.
- O-33** Control of Sulfur Number in Sulfur-Containing Compounds: The Effect of Base Type, Equivalent of the Base, and Reaction Solvent in Synthesizing Linear Sulfur
Nishimura, R.; Kobayashi, Y.; Kamioka, R.; Hashimoto, S.; Yamaguchi, H.
Chem. Lett. **2024**, *53*, upae105.
- O-34** Self-Assembled Supramolecular Materials for Substrate Transport by External Stimuli
Li, X.; Kobayashi, Y.; Harada, A.; Yamaguchi, H.
Macromol. Mater. Eng. **2024**, 2400395.
- O-35** 超分子科学のアプローチを用いた硫黄含有ポリマーの合成
小林 裕一郎, 西村 龍人, 山口 浩靖
ネットワークポリマー論文集 **2024**, *45*, 207–214.
- O-36** 超分子硫黄含有ポリマーの合成とその特性
小林 裕一郎, 神岡 龍之介, 橋本 駿, 山口 浩靖
日本接着学会誌 **2024**, *60*, 153–159.
- O-37** Dual Thermoresponsive Polysaccharide Derivative – Water System. Partially Substituted Amylose Butylcarbamate in Water
Nakata, Y.; Kitamura, S.; Terao, K.
Carbohydr. Polym. **2024**, *325*, 121587.

- O-38** Highly Branched Thermoresponsive Polysaccharide Derivative in Water. Partly Substituted Highly Branched Cyclic Dextrin Ethylcarbamate
Kobayashi, A.; Terao, K.
Carbohydr. Polym. **2024**, *343*, 122473.
- O-39** Complex Formation of Gold Nanoparticles with Collagen in Aqueous Media Studied by X-ray Scattering and Absorption Spectroscopy
Sagawa, K.; Terao, K.
Langmuir **2024**, *40*, 20755–20762.
- O-40** Synthesis and Characterization of Polyion Complex Micelles with Glycopolymer Shells for Drug Delivery Carriers
Ando, T.; Vu, T. N.; Nishimura, T.; Takahashi, R.; Yusa, S.
Langmuir **2024**, *40*, 26249–26258.
- O-41** Structural Analyses of Designed α -Helix and β -Sheet Peptide Nanofibers Using Solid-State Nuclear Magnetic Resonance and Cryo-Electron Microscopy and Introduction of Structure-Based Metal-Responsive Properties
Nakagawa, S.; Kurokawa, M.; Kambawa, O.; Takei, T.; Daidoji, K.; Naito, A.; Takita, M.; Kawamoto, A.; Hirose, M.; Tamura, A.
Int. J. Mol. Sci. **2024**, *25*, 1111.
- O-42** CryoEM-sampling of metastable conformations appearing in cofactor-ligand association and catalysis of glutamate dehydrogenase
Wakabayashi, T.; Oide, M.; Nakasako, M.
Sci. Rep. **2024**, *14*, 11165.
- O-43** Lipid Nanoparticle with 1,2-Di-O-octadecenyl-3-trimethylammonium-propane as a Component Lipid Confers Potent Responses of Th1 Cells and Antibody against Vaccine Antigen
Kawai, A.; Noda, M.; Hirata, H.; Munakata, L.; Matsuda, T.; Omata, D.; Takemura, N.; Onoe, S.; Hirose, M.; Kato, T.; Saitoh, T.; Hirai, T.; Suzuki, R.; Yoshioka, Y.
ACS Nano **2024**, *18*, 16589–16609.
- O-44** Use of phase plate cryo-EM reveals conformation diversity of therapeutic IgG with 50 kDa Fab fragment resolved below 6 Å
Lin, H.-H.; Wang, C.-H.; Huang, S.-H.; Lin, S.-Y.; Kato, T.; Namba, K.; Hosogi, N.; Song, C.; Murata, K.; Yen, C.-H.; Hsu, T.-L.; Wong, C.-H.; Wu, Y.-M.; Tu, I.-P.; Chang, W.-H.
Sci Rep. **2024**, *14*, 14079.

- O-45** Molecular Mechanism of pH-Induced Protrusion Configuration Switching in Piscine Betanodavirus Implies a Novel Antiviral Strategy
Štěrbová, P.; Wang, C.-H.; Carillo, K. J. D.; Lou, Y.-C.; Kato, T.; Namba, K.; Tzou, D.-L. M.; Chang, W.-H.
ACS Nano **2024**, *10*, 3304–3319.
- O-46** FliFG fusion proteins in marine *Vibrio* polar flagellar motor
Takekawa, N.; Nishikino, T.; Kishikawa, J.; Hirose, M.; Kinoshita, M.; Kojima, S.; Minamino, T.; Uchihashi, T.; Kato, T.; Imada, K.; Homma, M.
mBio. **2024**, *15*, e0126124.
- O-47** Neurotransmitter recognition by human vesicular monoamine transporter 2
Im, D.; Jormakka, M.; Juge, N.; Kishikawa, J.; Kato, T.; Sugita, Y.; Noda, T.; Uemura, T.; Shiimura, Y.; Miyaji, T.; Asada, H.; Iwata, S.
Nat. Commun. **2024**, *15*, 7661.
- O-48** Low-inflammatory lipid nanoparticle-based mRNA vaccine elicits protective immunity against H5N1 high-pathogenicity avian influenza virus with reduced adverse reactions
Kawai, A.; Shimizu, T.; Tanaka, H.; Shichinohe, S.; Anindita, J.; Hirose, M.; Kawahara, E.; Senpuku, K.; Shimooka, M.; Le Thi Quynh Mai; Suzuki, R.; Nogimori, T.; Yamamoto, T.; Hirai, T.; Kato, T.; Watanabe, T.; Akita, H.; Yoshioka, Y.
Mol. Ther. **2024**, *S1525-0016*, 00831-1.
- O-49** A conserved human CD4⁺ T cell subset recognizing the mycobacterial adjuvant, trehalose monomycolate
Sakai, Y.; Asa, M.; Hirose, M.; Kusuhara, W.; Fujiwara, N.; Tamashima, H.; Ikazaki, T.; Oka, S.; Kuraba, K.; Tanaka, K.; Yoshiyama, T.; Nagae, M.; Hoshino, Y.; Motooka, D.; Van Rhijn, I.; Lu, X.; Ishikawa, E.; Moody, D. B.; Kato, T.; Inuki, S.; Hirai, G.; Yamasaki, S.
J. Clin. Invest. **2024**, *e185443*.
- O-50** Versatile Biaryls and Fused Aromatics through Oxidative Coupling of Hydroquinones with (Hetero)Arenes using complex II
Aijima, T.; Ueda, R.; Nakane, T.; Makino, F.; Ohnishi, Y.; Tokunaga, J.; Nakajima, K.; Kamino, S.; Kurisu, G.; Namba, K.; Nakata, H.; Mogi, K.; Sajiki, H.; Akai, S.; Sawama, Y.
ChemistrySelect **2024**, *9*, e202400647.

- O-51** Mechanically-Sensitive Fluorochromism by Molecular Domino Transformation in a Schiff Base Crystal
Sasaki, T.; Nakane, T.; Kawamoto, A.; Zhao, Y.; Fujimoto, Y.; Nishizawa, T.; Kalita, N.; Tsuzuki, S.; Ito, F.; Ramamurty, U.; Thakuria, R.; Kurisu, G.
J. Mater. Chem. C **2024**, *12*, 8508–8513.
- O-52** Analysis of Solid-State Emission of the p-Bis(2,2-dicyanovinyl)benzene Analogue through Combined X-ray, Synchrotron, and Microcrystal Electron Diffraction
Deka, P.; Jaiswal, S.; Sarma, P.; Bora, D.; Nakane, T.; Kawamoto, A.; Ohnishi, Y.; Kurisu, G.; Mahanta, S.P.; Althubeiti, K.; Ichianagi, K. Sasaki, T.; Thakuria, R.
Cryst. Growth Des. **2024**, *24*, 7222–7234.
- O-53** Tuning of a Hydrogen-Bonded Organic Framework by Liquid-Assisted Mechanochemistry between Trans-Aconitic Acid and Isonicotinamide
Gogoi, D.; Sasaki, T.; Kalita, N.; Sethi, T.; Ichianagi, K.; Nakane, T.; Kawamoto, A.; Das, D.; Kurisu, G.; Thakuria, R.
Chem. Eur. J. **2024**, *31*, e202403427.
- O-54** Diatom Pyrenoids are Encased in A Protein Shell that Enables Efficient CO₂ Fixation
Shimakawa, G.; Demulder, M.; Flori, S.; Kawamoto, A.; Tsuji, Y.; Nawaly, H.; Tanaka, A.; Tohda, R.; Ota, T.; Matsui, H.; Morishima, N.; Okubo, R.; Wietrzynski, W.; Lamm, L.; Righetto, R.D.; Uwizeye, C.; Gallet, B.; Jouneau, P.H.; Gerle, C.; Kurisu, G.; Finazzi, G.; Engel, B.D.; Matsuda, Y.
Cell **2024**, *187*, 5919–5934.
- O-55** Structure-based validation of recombinant light-harvesting complex II
Seki, S.; Miyata, T.; Norioka, N.; Tanaka, H.; Kurisu, G.; Namba, K.; Fujii, R.
PNAS Nexus **2024**, *3*, 405.
- O-56** Crystal Structure of Pectocin M1 Reveals Diverse Conformations and Interactions during Its Initial Step via the Ferredoxin Uptake System
Jantarit, N.; Tanaka, H.; Lin, Y.; Lee, Y.H.; Kurisu, G.
EMBO Open Bio. **2024**, *10*, 1731–1745.
- O-57** The Unique Allosteric Property of Crocodilian Haemoglobin Elucidated by Cryo-EM
Takahashi, K.; Lee, Y.; Fago, A.; Bautista, N.M.; Storz, J.F.; Kawamoto, A.; Kurisu, G.; Nishizawa, T.; Tame, J.R.H.
Nat. Commun. **2024**, *15*, 6505.
- O-58** Iron-sulphur Protein Catalysed [4+2] Cycloadditions in Natural Product Biosynthesis

Zheng, Y.; Sakai, K.; Watanabe, K.; Takagi, H.; Sato-Shiozaki, Y.; Misumi, Y.; Miyanoiri, Y.; Kurisu, G.; Nogawa, T.; Takita, R.; Takahashi, S.
Nat. Commun. **2024**, *15*, 5779.

- O-59** NDT-C11 as a Viable Novel Detergent for Single Particle Cryo-EM
Jiko, C.; Li, J.; Moon, Y.; Tanaka, Y.; Gopalasingam, C.C.; Shigematsu, H.;
Chae, P.S.; Kurisu, G.; Gerle, C.
ChemPlusChem **2024**, *89*, e202400242.
- O-60** Determination of the three-dimensional structure of bacteriophage Mu(-) tail fiber
and its characterization
Higuchi, M.; Kanazawa, A.; Aoshima, S.
Mori, Y.; Yamashita, E.; Nakagawa, A.; Matsuzawa, T.; Inagaki, M.; Aiba, Y.;
Tanaka, S.; Hatori, S.; Ayami, M.; Takeda, S.
Virology **2024**, *583*, 110017.
- O-61** Comparative analysis of two *Caenorhabditis elegans* kinesins KLP-6 and UNC-104
reveals a common and distinct activation mechanism in kinesin-3
Kita, T.; Chiba, K.; Wang, J.; Nakagawa, A.; Niwa, S.
eLife, **2024**, *12*, RP89040.

Review Articles

- R-1** 可動性架橋と水素結合を組み合わせたポリウレタン材料の相乗的力学特性
以倉峻平、Zhou Xin、山岡賢司、高島義徳
ポリウレタンの材料設計、環境負荷低減と応用事例 (技術情報協会) **2024**,
第3章, 第3節.
- R-2** 超分子ネットワーク構造を利用した強靱性・自己修復機能材料の創製 (Design
of Self-healing and Tough Materials Using Supramolecular Network Structures)
山岡賢司、山下尚輝、以倉峻平、高島義徳
オレオサイエンス **2024** 年24 巻第3号 p.111-118『超分子が創る新価値』
(公益社団法人 日本油化学会) **2024**, *24*, 111–118.
- R-3** 緑色蛍光蛋白質の改変による 新規赤色蛍光蛋白質の開発
今村博臣, 今田勝巳
臨床免疫・アレルギー科 **2024**, *81*, 504–510.
- R-4** 目で見えるバイオ：緑色蛍光タンパク質から赤色蛍光タンパク質を創り出す
今村博臣, 今田勝巳

バイオサイエンスとインダストリー **2024**, 82, 280–281.

R-5 緑色蛍光タンパク質を赤色に —赤色化の構造基盤—
今田勝巳, 今村博臣

日本結晶学会誌 **2024**, 66, 217–218.

R-6 超分子硫黄含有ポリマーの合成

橋本 駿, 小林 裕一郎, 山口 浩靖

日本ゴム協会誌 **2024**, 97, 63–67.

R-7 AlphaFold のインパクト

中川敦史

化学 **2024**, 12, 12–14.

Books

B-1 Biofunctional Polymer Complexes: Functional Antibody Supramolecules (Chapter 8)
Yamaguchi, H.

Functional Macromolecular Complexes, Yamamoto K. & Nishihara, H. Ed.,
pp. 154-172, Royal Society of Chemistry, UK (**2024**).

B-2 生体高分子・超分子複合体の構造解析と AI

中川敦史

*CSJ カレントレビュー50 化学における情報・AI の活用 解析と合成を
駆動する情報科学*, pp. 91-97, 化学同人 (**2024**).

Miscellaneous Publications

M-1 Inspire, Interaction, Integration の愉しさ

中畑雅樹

現代化学 **2024**, 642, 53–55.

M-2 粘着剤、粘着シート、組成物および化合物

小鯖翔, 荒井隆行, 高島義徳, 以倉峻平, 山岡賢司, 銭韵鵬

特願 2024-150293 (出願日: 2024 年 5 月 28 日)

M-3 複合構造体、複合構造体の製造方法、成形体及び成形体の製造方法

奈良早織, 高島義徳, 以倉峻平, 山岡賢司, 西田幸輝

特許公開 2024-105644 (出願日: 2024 年 6 月 28 日)

- M-4** 硫黄含有高分子化合物およびその製造方法、接着組成物、接着方法、成形体
ならびに架橋高分子化合物
小林 裕一郎, 橋本 駿, 神岡 龍之介, 山口 浩靖
特願 2024-197710 (出願日: 2024 年 11 月 12 日)
- M-5** 硫黄含有高分子化合物の製造方法
小林 裕一郎, 橋本 駿, 神岡 龍之介, 松田 侑大, 戸田 健太, 藤原 凜々
子, 山口 浩靖
特願 2024-155165 (出願日: 2024 年 9 月 9 日)
- M-6** 硫黄含有高分子化合物の製造方法及び硫黄含有高分子化合物
小林 裕一郎, 神岡 龍之介, 橋本 駿, 西村 龍人, 神山 竜輝, 山口 浩靖
特願 2024-030624 (出願日: 2024 年 2 月 29 日)
- M-7** 超分子硫黄含有ポリマー
小林 裕一郎, 山口 浩靖
化学と工業 **2024**, 77, 114.
- M-8** 溶液中の高分子の分子の形と機能
寺尾 憲
生産と技術 **2024**, 76, 57-60.
- M-9** 高度な分岐構造をもつ多糖誘導体の分子認識
寺尾 憲
研究シーズ集 2024(未来社会共創を目指す), 大阪大学共創機構, **2024**, 77.