

## 山元和哉先生の論文一覧

- 1: "Preparation of Nanochitin Films with Oligochitin Graft Chains", Kazuya Yamamoto, Yu Obama, Jun-ichi Kadokawa, *Coatings*, **13(1)**, 47, 2023 年 1 月.
- 2: "Inclusion behavior of amylose toward hydrophobic polyester, poly( $\gamma$ -butyrolactone), in vine-twining polymerization", Masa-aki Iwamoto, Ryuta Watanabe, Kazuya Yamamoto, Jun-ichi Kadokawa, *Colloid Polym. Sci.*, **300**, 999-1004, 2022 年 8 月.
- 3: "Hydrophobization of Carboxymethyl Cellulose by Enzymatic Grafting of Partially 2-Deoxygenated Amyloses", Jun-ichi Kadokawa, Shogo Abe, Kazuya Yamamoto, *Chem. Lett.*, **51**, 646-649, 2022 年 6 月.
- 4: "Synthesis of Thermoplastic Chitin Hexanoate-graft-Poly( $\epsilon$ -caprolactone)", Aoi Nakashima, Kaho Kohori, Kazuya Yamamoto, Jun-ichi Kadokawa, *Carbohydr. Polym.*, **280**, 119024, 2022 年 3 月.
- 5: "Hydrophobic polysaccharides: Partially 2-deoxygenated amyloses", Shogo Abe, Kazuya Yamamoto, Jun-ichi Kadokawa, *Asian J. Org. Chem.*, **11**, e202100763, 2022 年 2 月.
- 6: "Hydrogelation from scaled-down chitin nanofibers by reductive amination of monosaccharide residues", Ryuta Watanabe, Kazuya Yamamoto, Jun-ichi Kadokawa, *J. Fiber Sci. Technol.*, **78**, 10-17, 2022 年 1 月.
- 7: "Synthesis of mixed chitin esters with long fatty and bulky acyl substituents in ionic liquid", Kaho Kohori, Hiroki Hirayama, Kazuya Yamamoto, Jun-ichi Kadokawa, *Int. J. Biol. Macromol.*, **190**, 763-768, 2021 年 11 月.
- 8: "Fabrication of Highly Flexible Nanochitin Film and its Composite Film with Anionic Polysaccharide", Takuya Hashiguchi, Kazuya Yamamoto, Jun-ichi Kadokawa, *Carbohydr. Polym.*, **270**, 118369, 2021 年 6 月.
- 9: "Preparation of Nanochitin/Polystyrene Composite Particles by Pickering Emulsion Polymerization Using Scaled-down Chitin Nanofibers", Ryuta Watanabe, Kakeru Izaki, Kazuya Yamamoto, Jun-ichi Kadokawa, *Coatings*, **11(6)**, 672, 2021 年 6 月.
- 10: "Thermostable  $\alpha$ -Glucan Phosphorylase-catalyzed Enzymatic Chain-elongation to Produce 6-Deoxygenated  $\alpha$ (1 $\rightarrow$ 4)-Oligoglucans", Jun-ichi Kadokawa, Le Hooi Lee, Kazuya Yamamoto, *Curr. Org. Chem.*, **25**, 1345-1352, 2021 年 6 月.
- 11: "Preparation of Amylose-Oligo[(R)-3-hydroxybutyrate] Inclusion Complex by Vine-twining Polymerization", Jun-ichi Kadokawa, Yuki Wada, Kazuya Yamamoto, *Molecules*, **26(9)**, 2595, 2021 年 4 月.
- 12: "Preparation of Supramolecular Material from Amylosic Inclusion Complex with Thermoresponsive Guest Polymer Obtained by Vine-Twining Polymerization", Jun-ichi

Kadokawa, Keisuke Yano, Kazuya Yamamoto, *Biointerface Res. Appl. Chem.*, **11**, 14580-14590, 2021 年 3 月.

- 13: "Preparation and Gelation Behaviors of Poly(2-oxazoline)-grafted Chitin Nanofibers ", Seiya Kitasono, Kazuya Yamamoto, Jun-ichi Kadokawa, *Carbohydr. Polym.*, **259**, 117709, 2021 年 1 月.
- 14: "Thermostable  $\alpha$ -glucan phosphorylase-catalyzed enzymatic copolymerization to produce partially 2-deoxygenated amyloses ", Jun-ichi Kadokawa, Shota Nakamura, Kazuya Yamamoto, *Processes*, **8(9)**, 1070, 2020 年 9 月.
- 15: "Chemoenzymatic synthesis of carboxylate-terminated maltooligosaccharides and their use for cross-linking of chitin ", J. Kadokawa, H. Chigita, K. Yamamoto, *International Journal of Biological Macromolecules*, **159**, 510-516, 2020 年 9 月.
- 16: "Preparation of chitin-based fluorescent hollow particles by Pickering emulsion polymerization using functional chitin nanofibers ", S. Noguchi, K. Yamamoto, J. Kadokawa, *International Journal of Biological Macromolecules*, **157**, 680-686, 2020 年 8 月.
- 17: "Fabrication of cationized chitin nanofiber-reinforced xanthan gum hydrogels ", J. Kadokawa, S. Noguchi, T. Gotanda, A. Kawano, K. Yamamoto, *Polymer Bulletin*, **77(8)**, 4095-4103, 2020 年 8 月.
- 18: "Evaluation of artificial crystalline structure from amylose analog polysaccharide without hydroxy groups at C-2 position ", Uto, T, Nakamura, S, Yamamoto, K, Kadokawa, *J. Carbohydrate Polymers*, **240(116347)**, 2020 年 7 月.
- 19: "Facile production of cellulosic organic solutions and organogels from ionic liquid media ", Jun-ichi Kadokawa, Natsuki Ohyama, Satoshi Idenoue, Kazuya Yamamoto, *Colloid Polym. Sci.*, **298**, 1129-1134 2020 年 6 月.
- 20: "Fabricating Chitin Paper from Self-Assembled Nanochitins ", J. Kadokawa, S. Idenoue, K. Yamamoto, *ACS Sustainable Chemistry and Engineering*, **8(22)**, 8402-8408, 2020 年 6 月.
- 21: "Dissolution of Chitin in Deep Eutectic Solvents Composed of Imidazolium Ionic Liquids and Thiourea ", Satoshi Idenoue, Kazuya Yamamoto, Jun-ichi Kadokawa, *Chem. Engineering*, **3(90)**, 2019 年 12 月.
- 22: "Ionic Liquid Induces Flexibility and Thermoplasticity in Cellulose Film ", Muhammad A. Haq, Yasuhiro Habu, Kazuya Yamamoto, Akihiko Takada, Jun-ichi Kadokawa, *Carbohydrate Polymers*, **223(115058)**, 2019 年 11 月.
- 23: "Preparation of Re-swellable Amorphous Porous Celluloses through Hydrogelation from Ionic Liquid Solutions ", Satoshi Idenoue, Yoshitaka Oga, Daichi Hashimoto, Kazuya Yamamoto, Jun-ichi Kadokawa, *Materials*, **12(19)**, 2019 年 10 月.

- 24: "Formation of microparticles from amylose-grafted poly( $\gamma$ -glutamic acid) networks obtained by thermostable phosphorylase-catalyzed enzymatic polymerization ", Jun-ichi Kadokawa, Saya Orio, Kazuya Yamamoto, *RSC Adv.*, **9**, 16176-16182, 2019 年 4 月.
- 25: "Enzymatic Preparation of Supramolecular Networks Composed of Amylosic Inclusion Complexes with Grafted Guest Polymers ", Jun-ichi Kadokawa, Kazuya Tanaka, Kazuya Yamamoto, *J. Electrochem. Soc.*, **166**(9), B3171-B3175, 2019 年 4 月.
- 26: "Formation of Supramolecular Soft Materials from Amylosic Inclusion Complexes with Designed Guest Polymers Obtained by Vine-Twining Polymerization ", Jun-ichi Kadokawa, Keisuke Yano, Saya Orio, Kazuya Yamamoto, *ACS Omega*, **4**, 6331-6338 2019 年 4 月.
- 27: "Preparation of Chitin Nanofiber-reinforced Xanthan Gum Hydrogels ", Akito Kawano, Koki Sato, Kazuya Yamamoto, Jun-ichi Kadokawa, *J. Polym. Environ.*, **27**, 671-677, 2019 年 4 月.
- 28: "Preparation of Composite and Hollow Particles from Self-assembled Chitin Nanofibers by Pickering Emulsion Polymerization ", Seiichiro Noguchi, Koki Sato, Kazuya Yamamoto, Jun-ichi Kadokawa, *Int. J. Biol. Macromol.*, **126**, 187-192, 2019 年 4 月.
- 29: "Preparation of amylose-carboxymethyl cellulose conjugated supramolecular networks by phosphorylase-catalyzed enzymatic polymerization ", J. Kadokawa, T. Shoji, K. Yamamoto, *Catalysts*, **9**(3), 2019 年 3 月.
- 30: "Fabrication of Semi-crystalline Film by Hexanoylation on Self-assembled Chitin Nanofibers ", J. Kadokawa, A. Kawano, K. Yamamoto, *ChemistrySelect*, **4**(3), 797-801, 2019 年 2 月.
- 31: "Facile acylation of  $\alpha$ -chitin in ionic liquid ", H. Hirayama, J. Yoshida, K. Yamamoto, J. Kadokawa, *Carbohydrate Polymers*, **200**, 567-571, 2018 年 11 月.
- 32: "Difference in Macroscopic Morphologies of Amylosic Supramolecular Networks Depending on Guest Polymers in Vine-Twining Polymerization ", Saya Orio, Takuya Shoji, Kazuya Yamamoto, Jun-ichi Kadokawa, *Polymers*, **10**(1277), 2018 年 11 月.
- 33: "Preparation of Cationic/Anionic Chitin Nanofiber Composite Materials ", K. Sato, K. Yamamoto, J. Kadokawa, *Journal of Polymers and the Environment*, **26**(9), 3540-3549, 2018 年 9 月.
- 34: "Facile acylation of  $\alpha$ -chitin in ionic liquid ", Hiroki Hirayama, Junpei Yoshida, Kazuya Yamamoto, Jun-ichi Kadokawa, *Carbohydr. Polym.*, **200**, 567-571, 2018 年 8 月.
- 35: "Understanding Dissolution Process of Chitin Crystal in Ionic Liquids: Theoretical Study ", Takuya Uto, Satoshi Idenoue, Kazuya Yamamoto, Jun-ichi Kadokawa, *Phys. Chem. Chem. Phys.*, **20**, 20669-20677, 2018 年 8 月.
- 36: "Chemoenzymatic Preparation of Amylose-grafted Chitin Nanofiber Network Materials ",

Jun-ichi Kadokawa, Naomichi Egashira, Kazuya Yamamoto, *Biomacromolecules*, **19**, 3013-3019, 2018年7月.

- 37: "Gel Formation from Self-assembled Chitin Nanofiber Film by Grafting of Poly(2-methyl-2-oxazoline)", Jun-ichi Kadokawa, Yu Obama, Junpei Yoshida, Kazuya Yamamoto, *Chem. Lett.*, **47**, 949-952, 2018年7月.
- 38: "Double Helix Formation from Non-natural Amylose Analog Polysaccharides", T. Yui, T. Uto, T. Nakauchida, K. Yamamoto, J. Kadokawa, *Carbohydrate Polymers*, **189**(1), 184-189, 2018年6月.
- 39: "Preparation of Cationic/Anionic Chitin Nanofiber Composite Materials", Koki Sato, Kazuya Yamamoto, Jun-ichi Kadokawa, *J. Polym. Environ.*, **26**, 3540-3549, 2018年4月.
- 40: "Preparation of Supramolecular Network Materials by Means of Amylose Helical Assemblies", Jun-ichi Kadokawa, Takuya Shoji, Kazuya Yamamoto, *Polymer*, **140**, 73-79, 2018年3月.
- 41: "Hierarchically controlled assemblies from amylose analog aminopolysaccharides by reductive amination: From nano- to macrostructures", Takuya Nakauchida, Kazuya Yamamoto, Jun-ichi Kadokawa, *J. Appl. Polym. Sci.*, **135**, 2018年2月.
- 42: "Cellulose Crystal Dissolution in Imidazolium-Based Ionic Liquids: A Theoretical Study", Takuya Uto, Kazuya Yamamoto, Jun-ichi Kadokawa, *J. Phys. Chem. B*, **122**, 258-266, 2018年1月.
- 43: "Preparation and material application of amylose-polymer inclusion complexes by enzymatic polymerization approach", Saya Orio, Kazuya Yamamoto, Jun-ichi Kadokawa, *Polymers*, **9**(12), 729, 2017年12月.
- 44: "Evaluation of Stability of Amylose Inclusion Complexes Depending on Guest Polymers and Their Application to Supramolecular Polymeric Materials", Tomonari Tanaka, Atsushi Tsutsui, Kazuya Tanaka, Kazuya Yamamoto, Jun-ichi Kadokawa, *Biomolecules*, **7**(1), 28, 2017年3月.
- 45: "Chemoenzymatic synthesis and self-assembling gelation behavior of amylose-grafted poly(gamma-glutamic acid)", Takuya Shouji, Kazuya Yamamoto, Jun-ichi Kadokawa, *Int. J. Biol. Macromol.*, **97**, 99-105, 2017年3月.
- 46: "Preparation of partially acetylated chitin nanofiber/polyethylene composite film", Keisho Iimori, Kazuya Yamamoto, Jun-ichi Kadokawa, *Adv. Mater. Lett.*, **8**, 362, 2017年3月.
- 47: "Synthesis of  $\alpha$  (1→4)-linked non-natural mannoglucans by alpha-glucan phosphorylase-catalyzed enzymatic copolymerization", Ryotaro Baba, Kazuya Yamamoto, Jun-ichi Kadokawa, *Carbohydr. Polym.*, **151**, 1034-1039, 2016年9月.
- 48: "Preparation of Functional Xanthan Gum Materials Using Ionic Liquid", Keisho Iimori,

Kazuya Yamamoto, Jun-ichi Kadokawa, *Plastic and Polymer Technology*, **4**, 63-72, 2016 年 9 月.

- 49: "An Investigation of Enzymatic Phosphorolysis of  $\alpha$  (1→4)-Linked Oligo-D-glucosaminides by Thermostable  $\alpha$ -Glucan Phosphorylase Catalysis ", Jun-ichi Kadokawa, Kento Yamashita, Riko Shimohigoshi, Kazuya Yamamoto, *Journal of Organic & Inorganic Chemistry*, **2(1)**, 1-7, 2016 年 9 月.
- 50: "Fabrication of Cationic Chitin Nanofiber/Alginate Composite Materials ", Koki Sato, Kohei Tanaka, Yusei Takata, Kazuya Yamamoto, Jun-ichi Kadokawa, *International Journal of Biological Macromolecules*, **91**, 724-729, 2016 年 8 月.
- 51: "Chemoenzymatic synthesis and pH-responsive properties of amphoteric block polysaccharides ", Takuya Nakauchida, Yusei Takata, Kazuya Yamamoto, Jun-ichi Kadokawa, *Org. Biomol. Chem.*, **14(27)**, 6449-6456, 2016 年 6 月.
- 52: "Synthesis of Non-Natural Heteroaminopolysaccharides by  $\alpha$ -Glucan Phosphorylase-Catalyzed Enzymatic Copolymerization:  $\alpha$ (1g4)-Linked Glucosaminoglucans ", K. Yamashita, K. Yamamoto, J. Kadokawa, *Biomacromolecules*, **16(12)**, 3989-3994, 2015 年 12 月.
- 53: "Synthesis of Amylose-Polyether Inclusion Supramolecular Polymers by Vine-Twining Polymerization Using Maltoheptaose-Functionalized Poly(tetrahydrofuran) as a Primer-Guest Conjugate ", T. Tanaka, A. Tsutsui, R. Gotanda, S. Sasayama, K. Yamamoto, J. Kadokawa, *Journal of Applied Glycoscience*, **62**, 135-141, 2015 年 12 月.
- 54: "Preparation of Chitin Nanofiber-Reinforced Cellulose Films Through Stepwise Regenerations from Individually Prepared Ion Gels ", J. Kadokawa, R. Endo, D. Hatanaka, K. Yamamoto, *Journal of Polymers and the Environment*, **23(3)**, 348-355, 2015 年 9 月.
- 55: "Surface-Initiated Graft Atom Transfer Radical Polymerization of Methyl Methacrylate from Chitin Nanofiber Macroinitiator under Dispersion Conditions ", R. Endo, K. Yamamoto, J. Kadokawa, *Fibers*, **3(3)**, 338-347, 2015 年 9 月.
- 56: "Synthesis and gel formation of hyperbranched supramolecular polymer by vine-twining polymerization using branched primer-guest conjugate ", T. Tanaka, R. Gotanda, A. Tsutsui, S. Sasayama, K. Yamamoto, Y. Kimura, J. Kadokawa, *Polymer*, **73**, 9-16, 2015 年 9 月.
- 57: "Preparation of multiformable supramolecular gels through helical complexation by amylose in vine-twining polymerization ", J. Kadokawa, K. Tanaka, D. Hatanaka, K. Yamamoto, *Polymer Chemistry*, **6(35)**, 6402-6408, 2015 年 8 月.
- 58: "Fabrication of porous chitin with continuous substructure by regeneration from gel with  $\text{CaBr}_2 \cdot \text{H}_2\text{O}/\text{methanol}$  ", J. Kadokawa, R. Endo, K. Tanaka, K. Ohta, K. Yamamoto, *International Journal of Biological Macromolecules*, **78**, 313-317, 2015 年 7 月.

- 59: "Preparation of pH-Responsive Amphoteric Glycogen Hydrogels by -Glucan Phosphorylase-Catalyzed Successive Enzymatic Reactions ", Y. Takata, K. Yamamoto, J. Kadokawa, *Macromolecular Chemistry and Physics*, **216**(13), 1415-1420, 2015 年 7 月.
- 60: "Acetylation of Xanthan Gum in Ionic Liquid ", R. Endo, M. Setoyama, K. Yamamoto, J. Kadokawa, *Journal of Polymers and the Environment*, **23**(2), 199-205, 2015 年 6 月.
- 61: "Synthesis of chitin and chitosan stereoisomers by thermostable  $\alpha$ -glucan phosphorylase-catalyzed enzymatic polymerization of  $\alpha$ -D-glucosamine 1-phosphate ", J. Kadokawa, R. Shimohigoshi, K. Yamashita, K. Yamamoto, *Organic and Biomolecular Chemistry*, **13**(14), 4336-4343, 2015 年 4 月.
- 62: "Evaluating Relative Chain Orientation of Amylose and Poly(L-lactide) in Inclusion Complexes Formed by Vine-Twining Polymerization Using Primer-Guest Conjugates ", T. Tanaka, S. Sasayama, K. Yamamoto, Y. Kimura, J. Kadokawa, *Macromolecular Chemistry and Physics*, **216**(7), 794-800, 2015 年 4 月.
- 63: "Surface-initiated atom transfer radical polymerization from chitin nanofiber macroinitiator film ", K. Yamamoto, S. Yoshida, J. Kadokawa, *CARBOHYDRATE POLYMERS*, **112**, 119-124, 2014 年 6 月.
- 64: "Facile nanofibrillation of chitin derivatives by gas bubbling and ultrasonic treatments in water ", K. Tanaka, K. Yamamoto, J. Kadokawa, *CARBOHYDRATE RESEARCH*, **398** 25-30, 2014 年 5 月.
- 65: "Enzymatic Synthesis of Dendritic Amphoteric b-Glucans by Thermostable Phosphorylase Catalysis ", Y. Takata, R. Shimohigoshi, K. Yamamoto, J. Kadokawa, *MACROMOLECULAR BIOSCIENCE*, **14**(10), 1437-1443, 2014 年 5 月.
- 66: "Direct Evidence of Spatially Selective Iron Mineralization Using an Immobilized Ferritin Protein Cage ", Koichiro Uto, Kazuya Yamamoto, Naoko Kishimoto, Masahiro Muraoka, Takao Aoyagi, Ichiro Yamashita, *Journal of Nanoscience and Nanotechnology*, **14**, 3193-3201, 2014 年 4 月.
- 67: "Preparation of Cellulose/Xanthan Gum Composite Films and Hydrogels using Ionic Liquid ", M. Setoyama, K. Yamamoto, J. Kadokawa, *Journal of Polymers and the Environment*, **22**, 298-303, 2014 年 3 月.
- 68: "Preparation of chitin nanofiber-reinforced carboxymethyl cellulose films ", D. Hatanaka, K. Yamamoto, J. Kadokawa, *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, **69**, 35-38, 2014 年 3 月.
- 69: "Hierarchically Self-assembled Nanofiber Films from Amylose grafted Carboxymethyl Cellulose ", D. Hatanaka, Y. Takemoto, K. Yamamoto, J. Kadokawa, *Fibers*, **2**, 34-44, 2014 年 2 月.
- 70: "Acid-catalyzed Ring-opening Polymerization of  $\gamma$ -Butyrolactone under High-pressure

Conditions ", K. Yamashita, K. Yamamoto, J. Kadokawa, *Chemistry Letters*, **43(2)**, 213-215, 2014 年 2 月.

- 71: "Facile Preparation of Chitin Gels with Calcium Bromide · Dihydrate/Methanol Media and Their Efficient Conversion into Porous Chitins ", R. Tajiri, A. Mihata, K. Yamamoto, J. Kadokawa, *RSC Advances*, **4**, 5542-5546, 2014 年 1 月.
- 72: "Solid-phase PEGylation of an Immobilized Protein Cage on Polyelectrolyte Multilayer ", K. Uto, K. Yamamoto, K. Iwahori, T. Aoyagi, I. Yamashita, *Colloids and Surfaces B: Biointerfaces*, **113**, 338-345, 2014 年 1 月.
- 73: "n Amylose-Poly(L-lactide) Inclusion Supramolecular Polymer: Enzymatic Synthesis by Means of Vine-Twining Polymerization Using a Primer-Guest Conjugate ", T. Tanaka, S. Sasayama, S. Nomura, K. Yamamoto, Y. Kimura, J. Kadokawa, *Macromolecular Chemistry and Physics*, **214**, 2829-2834, 2013 年 12 月.
- 74: "Preparation of Highly Flexible Chitin Nanofiber-graft-poly(gamma-L-glutamic acid) Network Film ", J. Kadokawa, T. Setoguchi, K. Yamamoto, *Polymer Bulletin*, **70**, 3279--3289, 2013 年 12 月.
- 75: "イオン液体を用いる新しい多糖材料の創製 ", 山元 和哉, 門川 淳一, *高分子論文集*, **70(10)**, 520-528, 2013 年 10 月.
- 76: "Preparation of Chitin/Cellulose Films Compatibilized with Polymeric Ionic Liquids ", M. Setoyama, T. Kato, K. Yamamoto, J. Kadokawa, *Journal of Polymers and the Environment*, **21(3)**, 795-801, 2013 年 10 月.
- 77: "Thermostable alpha-Glucan Phosphorylase-catalyzed Successive alpha-Mannosylations ", R. Shimohigoshi, Y. Takemoto, K. Yamamoto, J. Kadokawa, *Chemistry Letters*, **42(9)**, 822-824, 2013 年 9 月.
- 78: "Self-Assembling Properties of 6-O- and 6-O-Alkylsucrose Mixtures Having Different Chain Lengths Under Aqueous Conditions ", K. Tanaka, S. Ohkawabata, K. Yamamoto, J. Kadokawa, *Journal of Carbohydrate Chemistry*, **32**, 259-271, 2013 年 6 月.
- 79: "Synthesis of chitin-graft-polystyrene via atom transfer radical polymerization initiated from a chitin macroinitiator ", K. Yamamoto, S. Yoshida, S. Mine, J. Kadokawa, *Polymer Chemistry*, **4(11)**, 3384-3389, 2013 年 4 月.
- 80: "Characterization of stable, electroactive protein cage/synthetic polymer multilayer thin films prepared by layer-by-layer assembly ", K. Uto, K. Yamamoto, N. Kishimoto, M. Muraoka, T. Aoyagi, I. Yamashita, *Journal of Nanoparticle Research*, **15**, 1516-1526, 2013 年 3 月.
- 81: "Preparation of Galactomannan-Based Materials Compatibilized with Ionic Liquids ", J. Kadokawa, T. Kato, M. Setoyama, K. Yamamoto, *Journal of Polymers and the Environment*, **21(2)**, 512-519, 2013 年 3 月.

- 82: "Atom transfer radical polymerization of N-isopropylacrylamide by enzyme mimetic catalyst ", K. Yamashita, K. Yamamoto, J. Kadokawa, *Polymer*, **54**(7), 1775-1778, 2013 年 2 月.
- 83: "Synthesis of highly branched anionic alpha-glucans by thermostable phosphorylase-catalyzed alpha-glucuronylation ", Y. Takemoto, H. Izawa, Y. Umegatani, K. Yamamoto, A. Kubo, M. Yanase, T. Takaha, J. Kadokawa, *Carbohydrate Research*, **366**, 38-44, 2013 年 1 月.
- 84: "Self-assembly of amylose-grafted carboxymethyl cellulose ", J. Kadokawa, T. Arimura, Y. Takemoto, K. Yamamoto, *CARBOHYDRATE POLYMERS*, **90**, 1371-1377, 2012 年 11 月.
- 85: "Preparation of chitin nanofiber-graft-poly(L-lactide-co-epsilon-caprolactone) films by surface-initiated ring-opening graft copolymerization ", T. Setoguchi, K. Yamamoto, J. Kadokawa, *Polymer*, **53**, 4977-4982, 2012 年 10 月.
- 86: "Synthesis of 6-O-Hexadecyl- and 6-O-Octylsucroses and Their Self-Assembling Properties Under Aqueous Conditions ", S. Ohkawabata, M. Kanemaru, S. Kuwahara, K. Yamamoto, J. Kadokawa, *JOURNAL OF CARBOHYDRATE CHEMISTRY*, **31**, 659-672, 2012 年 10 月.
- 87: "Self-assembling Property of 6,6' -Di-O-octyltrehalose under Aqueous Conditions ", M. Kanemaru, K. Yamamoto, J. Kadokawa, *Chem. Lett.*, **41**(9), 954-956, 2012 年 9 月.
- 88: "Self-assembling properties of 6-O-alkyltrehaloses under aqueous conditions ", M. Kanemaru, K. Yamamoto, J. Kadokawa, *CARBOHYDRATE RESEARCH*, **357**, 32-40, 2012 年 7 月.
- 89: "Tunable multicolour emissions of polymeric ionic films carrying proper fluorescent dye moieties ", S. Wakizono, K. Yamamoto, J. Kadokawa, *JOURNAL OF MATERIALS CHEMISTRY*, **22**(21), 10619-10624, 2012 年 6 月.
- 90: "Facile production of chitin from crab shells using ionic liquid and citric acid ", T. Setoguchi, T. Kato, K. Yamamoto, J. Kadokawa, *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, **50**(3), 861-864, 2012 年 6 月.
- 91: "Synthesis of poly(spiropyran)s by polycondensation and their photoisomerization behaviors ", J. Kadokawa, Y. Tanaka, Y. Yamashita, K. Yamamoto, *EUROPEAN POLYMER JOURNAL*, **48**(3), 549-559, 2012 年 5 月.
- 92: "Enzymatic-Glucuronic Acid 1-Phosphate as Glycosyl Donor of Maltooligosaccharides Using Catalyzed by Thermostable Phosphorylase from *Aquifex aeolicus* VF5 ", Y. Umegatani, H. Izawa, M. Nawaji, K. Yamamoto, A. Kubo, M. Yanase, T. Takaha, J. Kadokawa, *Carbohydr. Res.*, **350**, 81-85, 2012 年 1 月.
- 93: "Facile Preparation of Chitin/Cellulose Composite Films Using Ionic Liquids ", J.

- Kadokawa, K. Hirohama, S. Mine, T. Kato, K. Yamamoto, *Journal of Polymers and the Environment*, **20**, 37-42, 2012 年 1 月.
- 94: "Release Behavior from Hydrogen-Bonded Polymer Gels Prepared by Pressurization ", S. Mutsuo, K. Yamamoto, T. Furuzono, T. Kimura, T. Ono, A. Kishida, *Journal of Applied Polymer Science*, **119(2725)**, 2725-2729, 2011 年 12 月.
- 95: "Surface design with self-heating smart polymers for on-off switchable traps ", P. Techawanitchai, K. Yamamoto, M. Ebara, T. Aoyagi, *Science and Technology of Advanced Materials*, **12**, p.044609, 2011 年 9 月.
- 96: "Photo-induced Reduction Reaction of Methylene Blue in an Ionic Liquid ", J. Kadokawa, H. Izawa, T. Ohta, S. Wakizono, K. Yamamoto, *Int. J. Org. Chem.*, **1(4)**, 158-161, 2011 年 8 月.
- 97: "Chemoenzymatic Synthesis and Hydrogelation of Amylose-grafted Xanthan Gums ", T. Arimura, Y. Omagari, K. Yamamoto, J. Kadokawa, *Int. J. Biol. Macromol.*, **49**, 498-503, 2011 年 7 月.
- 98: "FRET function of polymeric ionic liquid film containing rhodamine moieties for exhibiting emissions by excitation at wide wavelength areas ", S. Wakizono, K. Yamamoto, J. Kadokawa, *J. Photochem. Photobiol. A, Chem.*, **222**, 283-287, 2011 年 7 月.
- 99: "Tunable stimuli-responsive self-assembly system that forms and stabilizes nanoparticles by simple mixing and heating/cooling of selected block copolymers ", Y. Kotsuchibash, M. Ebara, K. Yamamoto, T. Aoyagi, *Polymer Chemistry*, **2(6)**, 1362-1367, 2011 年 6 月.
- 100: "Self-Assembly of 6-O- and 6'-O-Hexadecylsucroses Mixture Under Aqueous Conditions ", M. Kanemaru, S. Kuwahara, K. Yamamoto, Y. Kaneko, J. Kadokawa, *Carbohydrate Research*, **345(2718)**, 2718-2722, 2010 年 12 月.
- 101: "On-Off"Switching of Dynamically Controllable Self-Assembly Formation of Double-Responsive Block Copolymers with Tunable LCSTs ", Y. Kotsuchibashi, M. Ebara, K. Yamamoto, T. Aoyagi, *J. Polym. Sci.: Part A: Polym. Chem.*, **48**, 4393-4399, 2010 年 10 月.
- 102: "Synthesis of Amphiphilic Polyhedral Oligomeric Silsesquioxane Having a Hydrophobic Fluorescent Dye Group and Its Formation of Fluorescent Nanoparticles in Water ", S. Kuwahara, K. Yamamoto, J. Kadokawa, *Chem. Lett.*, **39(10)**, 1045-1047, 2010 年 10 月.
- 103: "刺激応答性高分子材料によるバイオマテリアルの設計 ", 山元和哉, バイオマテリアル-生体材料-, **28(3)**, 207-208, 2010 年 7 月.
- 104: "A totally synthetic glucose responsive gel operating in physiological aqueous conditions ", A. Matsumoto, K. Yamamoto, R. Yoshida, K. Kataoka, T. Aoyagi, Y. Miyahara, *Chem. Commun.*, **46**, 2203-2205, 2010 年 1 月.
- 105: "Stimuli-Responsive Coacervate Induced in Binary Functionalized Poly(N-

- isopropylacrylamide) Aqueous System and Novel Method for Preparing Semi-IPN Microgel Using the Coacervate ", T. Maeda, Y. Akasaki, K. Yamamoto, T. Aoyagi, *Langmuir*, **25(16)**, 9510-9517, 2009 年 5 月.
- 106: "Coil-Globule Transition and/or Coacervation of Temperature and pH Dual-Responsive Carboxylated Poly(N-isopropylacrylamide) ", T. Maeda, M. Takenouchi, K. Yamamoto, *Polymer Journal*, **41(3)**, 181-188, 2009 年 4 月.
- 107: "Assembly behavior of double thermo-responsive block copolymers with controlled response temperature in aqueous solution ", Y. Kotsuchibashi, K. Yamamoto, T. Aoyagi, *Journal of Colloid and Interface Science*, **306**, 67-72, 2009 年 3 月.
- 108: "Enhanced Transdermal Drug Penetration by the Simultaneous Application of Iontophoresis and Sonophoresis ", S. Watanabe, S. Takagi, K. Ga, K. Yamamoto, T. Aoyagi, *Journal of Drug Delivery Science and Technology*, **19(3)**, 185-189, 2009 年 2 月.
- 109: "Degradation of cross-linked aliphatic polyester composed of poly(  $\epsilon$  -caprolactone-co-D,L-lactide) depending on the thermal properties ", T. Muroya, K. Yamamoto, T. Aoyagi, *Polymer Degradation and Stability*, **94**, 285-290, 2009 年 1 月.
- 110: "New Concept of Liquid Chromatography by Combination of Inductive Heating with Alternating Magnetic Field and Thermo-Responsive Material ", H. Yagi, K. Yamamoto, T. Aoyagi, *Journal of Chromatography B, Journal of Chromatography B*, **876**, 97-102, 2008 年 12 月.
- 111: "Effective surface modification by stimuli-responsive polymers onto the magnetite nanoparticles by layer-by-layer method ", K. Yamamoto, D. Matsukuma, K. Nanasetani, T. Aoyagi, *Applied Surface Science*, **255**, 384-387, 2008 年 11 月.
- 112: "Novel Method to Prepare Semi-IPN Hydrogel Microspheres with a Thermoresponsive-Type Coacervate ", T. Maeda, Y. Akasaki, K. Yamamoto, T. Aoyagi, *The 42th IUPAC World Polymer Congress (MACRO 2008) Proc.*, **214**, 2008 年 10 月.
- 113: "Electrostatic Adsorption of Ferritin, Proteins and Nanoparticle Conjugate onto the Surface of Polyelectrolyte Multilayers ", K. Uto, K. Yamamoto, N. Kishimoto, M. Muraoka, T. Aoyagi, I. Yamashita, *Journal of Materials Chemistry*, **18**, 3876-3884, 2008 年 9 月.
- 114: "Synthesis and Characterization of Double Thermo-Responsive Block Copolymer Consisting N-isopropylacrylamide by Atom Transfer Radical Polymerization ", Y. Kotsuchibashi, Y. Kuboshima, K. Yamamoto, T. Aoyagi, *Journal of Polymer Science, Part A: Polymer Chemistry*, **46**, 6142-6150, 2008 年 8 月.
- 115: "Biocompatibility Study of the Scaffold Prototype Derived from Cross-Linked Poly[(  $\epsilon$  -caprolactone)-co-lactide] for Tissue Engineering Materials ", H. Miyasako, K. Yamamoto, T. Aoyagi, *Polymer Journal*, **40**, 806-812, 2008 年 7 月.

- 116: "Preparation and Characterizations of Nano-Sized Complexes Consisting of Stimuli-Responsive Block Copolymers and PAMAM Dendrimers ", Y. Kuboshima, K. Yamamoto, T. Aoyagi, *MRS-J*, **33** 149-152, 2008 年 3 月.
- 117: "Pressure-Induced Molecular Assembly of Hydrogen-Bonded Polymers ", S. Mutsuo, K. Yamamoto, T. Furuzono, T. Kimura, T. Ono, A. Kishida, *J. Polym. Sci.: Part B: Polym. Phys.*, **46**, 743-750, 2008 年 2 月.
- 118: "Preparation of Cross-linked Poly(  $\epsilon$  -caprolactone-co-lactide) and Biocompatibility Studies for Tissue Engineering Materials ", H. Miyasako, K. Yamamoto, A. Nakao, T. Aoyagi, *Macromolecular Bioscience*, **7**, 76-83, 2007 年 2 月.
- 119: "Importance of bound water in hydration-dehydration behavior of hydroxylated poly(N-isopropylacrylamide) ", T. Maeda, K. Yamamoto, T. Aoyagi, *Journal of Colloid and Interface Science*, **302**, 467-474, 2006 年 10 月.
- 120: "The Analysis of the Formation Mechanism for Thermoresponsive-Type Coacervate with Functional Copolymers Consisting of N-Isopropylacrylamide and 2-Hydroxyisopropylacrylamide ", T. Maeda, M. Takenouchi, K. Yamamoto, T. Aoyagi, *Biomacromolecules*, **7**, 2230-2236, 2006 年 10 月.
- 121: "Stimuli-Responsive Properties of N-Isopropylacrylamide -Based Ultrathin Hydrogel Films Prepared by Photo-Cross-Linking ", D. Matsukuma, K. Yamamoto, T. Aoyagi, *Langmuir*, **22**, 5911-5915, 2006 年 10 月.
- 122: "Protein Repellency of Well-Defined, Concentrated Poly(2-hydroxyethyl methacrylate) Brushes by the Size-Exclusion Effect ", C. Yoshikawa, A. Goto, Y. Tsujii, T. Fukuda, T. KImura, K. Yamamoto, A. Kishida, *Macromolecules*, **39**, 2284-2290, 2006 年 10 月.
- 123: "Novel Photo-Reactive Acrylamide-Based Copolymers Instantly Gave the Sensitive Stimuli-Responsive Hydrogels ", D. Matsukuma, K. Yamamoto, T. Aoyagi, *Journal of Photopolymer Science and Technology*, **19**, 445-449, 2006 年 8 月.
- 124: "Preparation and Characterization of Temperature-Responsive Magnetite Nanoparticle Conjugated with N-Isopropylacrylamide-based Functional Copolymer ", H. Wakamatsu, K. Yamamoto, T. Aoyagi, *Journal of Magnetism and Magnetic Materials*, **302**, 327-333, 2006 年 3 月.
- 125: "Hydroxylated Poly(N-isopropyl acrylamide) as Functional Thermo-responsive Materials ", T. Maeda, T. Kanda, Y. Yonekura, K. Yamamoto, T. Aoyagi, *Biomacromolecules*, **7**, 545-549, 2006 年 2 月.
- 126: "Temperature-responsive cross-linked poly(  $\epsilon$  -caprolactone) membrane that functions near body temperature ", K. Uto, K. Yamamoto, S. Hirase, T. Aoyagi, *Journal of Controlled Release*, **110**, 408-413, 2006 年 1 月.
- 127: "Fabrication of High-Density Polymer Brush on Polymer Substrate by Surface-Initiated

- Living Radical Polymerization ", C. Yoshikawa, A. Goto, Y. Tsujii, T. Fukuda, K. Yamamoto, A. Kishida, *Macromolecules*, **38**, 4604-4610, 2005 年 10 月.
- 128: "N-Isopropylacrylamide-based Temperature-Responsive Polymer with Carboxyl Groups for Controlled Drug Release ", T. Kanda, K. Yamamoto, T. Aoyagi, *Journal of Photopolymer Science and Technology*, **18(4)**, 515-518, 2005 年 7 月.
- 129: "Synthesis and functionalities of poly(N-vinylalkylamide). XIV. Polyvinylamine produced by hydrolysis of poly(N-vinylformamide) and its functionalization", Kazuya Yamamoto, Yachiyo Imamura, Emi Nagatomo, Takeshi Serizawa, Yoichiro Muraoka, Mitsuru Akashi, *J. Appl Polym. Sci.*, **89**, 1277-1283, 2003 年 5 月.
- 130: "Synthesis and Thermosensitive Properties of Poly[(N-vinylamide)-co-(vinyl acetate)]s and Their Hydrogels", Kazuya Yamamoto, Takeshi Serizawa, Mitsuru Akashi, *Macromol. Chem. Phys.*, **204**, 1027-1033, 2003 年 4 月.
- 131: "Thermoresponsive Ultrathin Hydrogels Prepared by Sequential Chemical Reactions", Takeshi Serizawa, Kazuhisa Nanameki, Kazuya Yamamoto, and Mitsuru Akashi, *Macromolecules*, **35**, 6, 2184-2189, 2002 年 7 月.
- 132: "Microcalorimetric Study of Aqueous Solution of a Thermoresponsive Polymer, poly(N-vinylisobutyramide) (PNVIBA)", Shigeru Kunugi, Tomoko Tada, Naoki Tanaka, Kazuya Yamamoto, and Mitsuru Akashi, *Polymer Journal*, **34**, 383-388, 2002 年 5 月.
- 133: "Synthesis and Functionalities of Poly(N-vinylalkylamide). 13. Synthesis and Properties of Thermal and pH Stimuli-Responsive Poly(vinylamine) Copolymers", Kazuya Yamamoto, Takeshi Serizawa, Yoichiro Muraoka, and Mitsuru Akashi, *Macromolecules*, **34**, 23, 8014-8020, 2001 年 10 月.
- 134: "Temperature and pH dependence of the catalytic activity of colloidal platinum nanoparticles stabilized by poly[(vinylamine)-co-(N-vinylisobutyramide)". Chun-Wei Chen, Kumiko Arai, Kazuya Yamamoto, Takeshi Serizawa, Mitsuru Akashi, *Macromol. Chem. Phys.*, **201**, 2811-2819, 2000 年 12 月.
- 135: "Poly(N-vinylisobutyramide)-stabilized platinum nanoparticles: synthesis and temperature-responsive behavior in aqueous solution", Chun-Wei Chen, Takashi Takezako, Kazuya Yamamoto, Takeshi Serizawa, Mitsuru Akashi, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **169(1-3)**, 107-116, 2000 年 9 月.
- 136: "Synthesis and functionalities of poly(N-vinylalkylamide). XII. Synthesis and thermosensitive property of poly(vinylamine) copolymer prepared from poly(N-vinylformamide-co-N-vinylisobutyramide)", Kazuya Yamamoto, Takeshi Serizawa, Yoichiro Muraoka, Mitsuru Akashi, *Journal of Polymer Science: Part A: Polymer Chemistry*, **38**, 3674-3681, 2000 年 8 月.
- 137: "A novel fabrication of ultrathin poly(vinylamine) films with a molecularly smooth

surface", T. Serizawa, K. Yamamoto, M. Akashi, *Langmuir*, **15**(13), 4682-4684, 1999 年  
5 月.

※編集時の誤情報の混入を避けるため、極力データベースに記載されている表記を用いて  
おります。そのため統一の取れていない箇所がございますが、ご容赦いただければ幸いです。