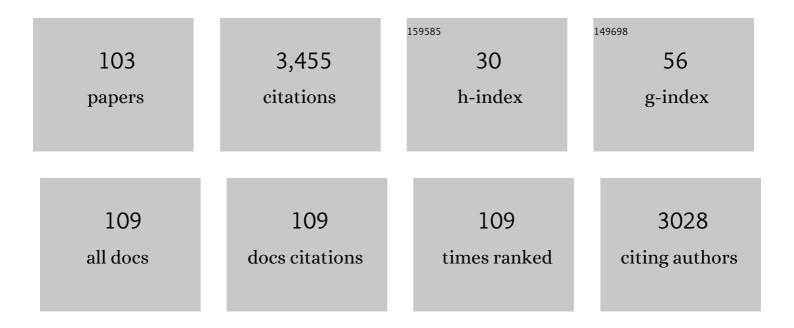
## Takuya Yamamoto

List of Publications by Year in descending order

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| #  | Article  | IF                | CITATIONS   |
|----|--|-------------------|-------------|
| 1  | Topological polymer chemistry: a cyclic approach toward novel polymer properties and functions.<br>Polymer Chemistry, 2011, 2, 1930.   | 3.9               | 255         |
| 2  | Topology-Directed Control on Thermal Stability: Micelles Formed from Linear and Cyclized<br>Amphiphilic Block Copolymers. Journal of the American Chemical Society, 2010, 132, 10251-10253.  | 13.7              | 200         |
| 3  | Tuneable enhancement of the salt and thermal stability of polymeric micelles by cyclized amphiphiles.<br>Nature Communications, 2013, 4, 1574.   | 12.8              | 149         |
| 4  | Cyclic polymers revealing topology effects upon self-assemblies, dynamics and responses. Soft Matter, 2015, 11, 7458-7468.   | 2.7               | 130         |
| 5  | Effective Click Construction of <i>Bridged</i> - and <i>Spiro</i> -Multicyclic Polymer Topologies with<br>Tailored Cyclic Prepolymers ( <i>kyklo</i> -Telechelics). Journal of the American Chemical Society, 2010,<br>132, 14790-14802.   | 13.7              | 129         |
| 6  | Light- and Heat-Triggered Reversible Linear–Cyclic Topological Conversion of Telechelic Polymers with Anthryl End Groups. Journal of the American Chemical Society, 2016, 138, 3904-3911.  | 13.7              | 126         |
| 7  | Enhanced dispersion stability of gold nanoparticles by the physisorption of cyclic poly(ethylene) Tj ETQq1 1 0.784   | 1314 rgBT<br>12.8 | Ölerlock 10 |
| 8  | Dynamic Equilibrium of a Supramolecular Dimeric Rhomboid and Trimeric Hexagon and Determination of Its Thermodynamic Constants. Journal of the American Chemical Society, 2003, 125, 12309-12317.  | 13.7              | 102         |
| 9  | Self-Assembly of Flexible Supramolecular Metallacyclic Ensembles:Â Structures and Adsorption<br>Properties of Their Nanoporous Crystalline Frameworks. Journal of the American Chemical Society,<br>2004, 126, 10645-10656.                | 13.7              | 101         |
| 10 | Coordination-Driven Face-Directed Self-Assembly of Trigonal Prisms. Face-Based Conformational<br>Chirality. Journal of the American Chemical Society, 2008, 130, 7620-7628.  | 13.7              | 100         |
| 11 | Conductive Oneâ€Handed Nanocoils by Coassembly of Hexabenzocoronenes: Control of Morphology<br>and Helical Chirality. Angewandte Chemie - International Edition, 2008, 47, 1672-1675.  | 13.8              | 94          |
| 12 | Stabilization of a Kinetically Favored Nanostructure:Â Surface ROMP of Self-Assembled Conductive<br>Nanocoils from a Norbornene-Appended Hexa-peri-hexabenzocoronene. Journal of the American<br>Chemical Society, 2006, 128, 14337-14340. | 13.7              | 86          |
| 13 | Synthesis of a Bis(pyridyl)-Substituted Perylene Diimide Ligand and Incorporation into a<br>Supramolecular Rhomboid and Rectangle via Coordination Driven Self-Assembly. Journal of Organic<br>Chemistry, 2005, 70, 797-801.               | 3.2               | 77          |
| 14 | Multimode Diffusion of Ring Polymer Molecules Revealed by a Singleâ€Molecule Study. Angewandte<br>Chemie - International Edition, 2010, 49, 1418-1421.   | 13.8              | 76          |
| 15 | Self-Assembly of Molecular Prisms via an Organometallic "Clip― Organic Letters, 2002, 4, 913-915.  | 4.6               | 74          |
| 16 | Synthesis of Orientationally Isomeric Cyclic Stereoblock Polylactides with Head-to-Head and Head-to-Tail Linkages of the Enantiomeric Segments. ACS Macro Letters, 2012, 1, 902-906.   | 4.8               | 74          |
| 17 | Straightforward synthesis of functionalized cyclic polymers in high yield via RAFT and thiolactone–disulfide chemistry. Polymer Chemistry, 2013, 4, 184-193.   | 3.9               | 71          |
| 18 | A Programmed Polymer Folding:ClickandClipConstruction of DoublyFusedTricyclic and<br>TriplyFusedTetracyclic Polymer Topologies. Journal of the American Chemical Society, 2011, 133,<br>19694-19697.                                       | 13.7              | 70          |

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| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Alkali Metal Carboxylate as an Efficient and Simple Catalyst for Ring-Opening Polymerization of Cyclic<br>Esters. Macromolecules, 2018, 51, 689-696.   | 4.8  | 61        |
| 20 | Radially Diblock Nanotube:  Site-Selective Functionalization of a Tubularly Assembled<br>Hexabenzocoronene. Journal of the American Chemical Society, 2008, 130, 1530-1531.  | 13.7 | 57        |
| 21 | Structural Characteristics of Amphiphilic Cyclic and Linear Block Copolymer Micelles in Aqueous Solutions. ACS Macro Letters, 2014, 3, 233-239.  | 4.8  | 57        |
| 22 | Constructing a Macromolecular K <sub>3,3</sub> Graph through Electrostatic Self-Assembly and<br>Covalent Fixation with a Dendritic Polymer Precursor. Journal of the American Chemical Society,<br>2014, 136, 10148-10155. | 13.7 | 53        |
| 23 | Photoinduced topological transformation of cyclized polylactides for switching the properties of homocrystals and stereocomplexes. Polymer Chemistry, 2015, 6, 3591-3600.  | 3.9  | 51        |
| 24 | Self-Assembly of Nanoscale Supramolecular Truncated Tetrahedra. Journal of Organic Chemistry, 2005, 70, 4861-4864.   | 3.2  | 49        |
| 25 | Synthesis of Well-Defined Three- and Four-Armed Cage-Shaped Polymers via "Topological Conversion―<br>from Trefoil- and Quatrefoil-Shaped Polymers. Macromolecules, 2017, 50, 97-106.                                       | 4.8  | 43        |
| 26 | Synthesis of cyclic polymers and topology effects on their diffusion and thermal properties. Polymer Journal, 2013, 45, 711-717.   | 2.7  | 40        |
| 27 | Folding Construction of a Pentacyclic Quadruply <i>fused</i> Polymer Topology with Tailored<br><i>kyklo</i> â€Telechelic Precursors. Angewandte Chemie - International Edition, 2015, 54, 8688-8692.                       | 13.8 | 36        |
| 28 | Facile and Efficient Modification of Polystyrene- <i>block</i> -poly(methyl methacrylate) for Achieving<br>Sub-10 nm Feature Size. Macromolecules, 2018, 51, 8064-8072.  | 4.8  | 35        |
| 29 | Single-Molecule Study on Polymer Diffusion in a Melt State: Effect of Chain Topology. Analytical Chemistry, 2013, 85, 7369-7376.   | 6.5  | 33        |
| 30 | Multicyclic Polymer Synthesis through Controlled/Living Cyclopolymerization of<br>α,ï‰-Dinorbornenyl-Functionalized Macromonomers. Macromolecules, 2018, 51, 3855-3864.  | 4.8  | 33        |
| 31 | Effective Synthesis of Polymer Catenanes by Cooperative Electrostatic/Hydrogen-Bonding Self-Assembly and Covalent Fixation. Macromolecules, 2010, 43, 168-176.   | 4.8  | 32        |
| 32 | Construction of Double-Eight and Double-Trefoil Polymer Topologies with Core-Clickable<br><i>kyklo</i> -Telechelic Precursors. Macromolecules, 2014, 47, 8214-8223.  | 4.8  | 30        |
| 33 | One-Step Production of Amphiphilic Nanofibrillated Cellulose Using a Cellulose-Producing<br>Bacterium. Biomacromolecules, 2017, 18, 3432-3438.   | 5.4  | 29        |
| 34 | Microphase separation of carbohydrate-based star-block copolymers with sub-10 nm periodicity.<br>Polymer Chemistry, 2019, 10, 1119-1129.   | 3.9  | 29        |
| 35 | Programmed Polymer Folding with Periodically Positioned Tetrafunctional Telechelic Precursors by<br>Cyclic Ammonium Salt Units as Nodal Points. Journal of the American Chemical Society, 2019, 141,<br>7526-7536.         | 13.7 | 29        |
| 36 | A versatile synthetic strategy for macromolecular cages: intramolecular consecutive cyclization of star-shaped polymers. Chemical Science, 2019, 10, 440-446.  | 7.4  | 28        |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Folding Construction of Doubly Fused Tricyclic, β- and γ-Graph Polymer Topologies with<br>kyklo-Telechelic Precursors Obtained through an Orthogonal Click/ESA-CF Protocol.<br>Macromolecules, 2013, 46, 7303-7315. | 4.8  | 27        |
| 38 | ATRP–RCMpolymercyclization: synthesis of amphiphilic cyclic polystyrene-b-poly(ethylene oxide)<br>copolymers. Polymer Chemistry, 2012, 3, 1903-1909.  | 3.9  | 26        |
| 39 | Chain-End Functionalization with a Saccharide for 10 nm Microphase Separation: "Classical―<br>PS- <i>b</i> -PMMA versus PS- <i>b</i> -PMMA-Saccharide. Macromolecules, 2018, 51, 8870-8877.                         | 4.8  | 25        |
| 40 | Carbohydrates as Hard Segments for Sustainable Elastomers: Carbohydrates Direct the Self-Assembly<br>and Mechanical Properties of Fully Bio-Based Block Copolymers. Macromolecules, 2020, 53, 5408-5417.            | 4.8  | 24        |
| 41 | Click Construction of Spiro―and Bridgedâ€Quatrefoil Polymer Topologies with Kykloâ€Telechelics Having<br>an Azide Group. Macromolecular Rapid Communications, 2014, 35, 412-416.                                    | 3.9  | 23        |
| 42 | Phase separation and self-assembly of cyclic amphiphilic block copolymers with a main-chain liquid crystalline segment. Polymer Chemistry, 2015, 6, 4167-4176.  | 3.9  | 22        |
| 43 | Construction of Hybrid-Multicyclic Polymer Topologies Composed of Dicyclic Structure Units by Means of An ESA-CF/Click-Linking Protocol. Macromolecules, 2016, 49, 4076-4087.                                       | 4.8  | 21        |
| 44 | Synthesis and Topological Conversion of an 8-shaped Poly(THF) Having a Metathesis-Cleavable Unit at the Focal Position. Macromolecules, 2010, 43, 7062-7067.  | 4.8  | 19        |
| 45 | Macrocyclic poly( <i>p</i> -phenylenevinylene)s by ring expansion metathesis polymerisation and their characterisation by single-molecule spectroscopy. Chemical Science, 2018, 9, 2934-2941.                       | 7.4  | 19        |
| 46 | Rapid access to discrete and monodisperse block co-oligomers from sugar and terpenoid toward ultrasmall periodic nanostructures. Communications Chemistry, 2020, 3, .   | 4.5  | 19        |
| 47 | An organocatalytic ring-opening polymerization approach to highly alternating copolymers of lactic acid and glycolic acid. Polymer Chemistry, 2020, 11, 6365-6373.  | 3.9  | 18        |
| 48 | Metalâ€Organic Frameworks for Practical Separation of Cyclic and Linear Polymers. Angewandte Chemie<br>- International Edition, 2021, 60, 11830-11834.  | 13.8 | 18        |
| 49 | Synthesis, Isolation, and Properties of All Head-to-Tail Cyclic Poly(3-hexylthiophene): Fully Delocalized<br>Exciton over the Defect-Free Ring Polymer. Macromolecules, 2018, 51, 9284-9293.                        | 4.8  | 17        |
| 50 | Topological polymer chemistry by programmed self-assembly and effective linking chemistry. European<br>Polymer Journal, 2011, 47, 535-541.  | 5.4  | 16        |
| 51 | NMR Relaxometry for the Thermal Stability and Phase Transition Mechanism of Flower-like Micelles from Linear and Cyclic Amphiphilic Block Copolymers. Langmuir, 2015, 31, 8739-8744.                                | 3.5  | 16        |
| 52 | Micelle Structure Details and Stabilities of Cyclic Block Copolymer Amphiphile and Its Linear<br>Analogues. Polymers, 2019, 11, 163.  | 4.5  | 16        |
| 53 | A facile strategy for manipulating micellar size and morphology through intramolecular cross-linking of amphiphilic block copolymers. Polymer Chemistry, 2017, 8, 3647-3656.  | 3.9  | 15        |
| 54 | Facile synthesis of poly(trimethylene carbonate) by alkali metal carboxylate-catalyzed ring-opening polymerization. Polymer Journal, 2020, 52, 103-110.   | 2.7  | 15        |

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| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 55 | Suzuki–Miyaura catalyst-transfer polycondensation of triolborate-type fluorene monomer: toward<br>rapid access to polyfluorene-containing block and graft copolymers from various macroinitiators.<br>Polymer Chemistry, 2020, 11, 6832-6839.  | 3.9  | 15        |
| 56 | Downsizing feature of microphase-separated structures <i>via</i> intramolecular crosslinking of block copolymers. Chemical Science, 2019, 10, 3330-3339.   | 7.4  | 14        |
| 57 | Formation and Properties of Vesicles from Cyclic Amphiphilic PS–PEO Block Copolymers. Langmuir, 2016, 32, 10344-10349.   | 3.5  | 13        |
| 58 | ESA-CF Synthesis of Linear and Cyclic Polymers Having Densely Appended Perylene Units and Topology<br>Effects on Their Thin-Film Electron Mobility. Macromolecules, 2016, 49, 5831-5840.   | 4.8  | 13        |
| 59 | Programmed folding into spiro-multicyclic polymer topologies from linear and star-shaped chains.<br>Communications Chemistry, 2020, 3, .   | 4.5  | 13        |
| 60 | Oneâ€Shot Intrablock Crossâ€Linking of Linear Diblock Copolymer to Realize Janusâ€Shaped Singleâ€Chain<br>Nanoparticles. Angewandte Chemie - International Edition, 2021, 60, 18122-18128.   | 13.8 | 13        |
| 61 | Hydrogel formation by the â€~topological conversion' of cyclic PLA–PEO block copolymers. Polymer<br>Journal, 2016, 48, 391-398.  | 2.7  | 12        |
| 62 | Trimethyl Glycine as an Environmentally Benign and Biocompatible Organocatalyst for Ring-Opening<br>Polymerization of Cyclic Carbonate. ACS Sustainable Chemistry and Engineering, 2019, 7, 8868-8875.   | 6.7  | 12        |
| 63 | Metallopolymer- <i>block</i> -oligosaccharide for sub-10 nm microphase separation. Polymer<br>Chemistry, 2020, 11, 2995-3002.  | 3.9  | 11        |
| 64 | Improving the mechanical properties of polycaprolactone using functionalized nanofibrillated bacterial cellulose with high dispersibility and long fiber length as a reinforcement material. Composites Part A: Applied Science and Manufacturing, 2022, 158, 106978.  | 7.6  | 11        |
| 65 | Systematic Synthesis of Block Copolymers Consisting of Topological Amphiphilic Segment Pairs from<br><i>kyklo</i> - and <i>kentro</i> -Telechelic PEO and Poly(THF). ACS Macro Letters, 2013, 2, 427-431.  | 4.8  | 10        |
| 66 | Single-molecule imaging reveals topological isomer-dependent diffusion by 4-armed star and dicyclic<br>8-shaped polymers. Polymer Chemistry, 2015, 6, 4109-4115.   | 3.9  | 10        |
| 67 | Regioselective Ring-Emitting Esterification on Azacyclohexane Quaternary Salts: A DFT and Synthetic<br>Study for Covalent Fixation of Electrostatic Polymer Self-Assemblies. Journal of Organic Chemistry,<br>2013, 78, 3086-3094.   | 3.2  | 9         |
| 68 | Concise Click/ESA-CF Synthesis of Periodically-Positioned Trifunctional kyklo-Telechelic Poly(THF)s.<br>Macromolecules, 2015, 48, 6077-6086.   | 4.8  | 9         |
| 69 | Topological "interfacial―polymer chemistry: Dependency of polymer "shape―on surface morphology<br>and stability of layer structures when heating organized molecular films of cyclic and linear block<br>copolymers of <i>n</i> -butyl acrylate-ethylene oxide. Journal of Polymer Science, Part B: Polymer<br>Physics. 2016. 54. 486-498. | 2.1  | 9         |
| 70 | Detailed Structural Analyses of Nanofibrillated Bacterial Cellulose and Its Application as Binder<br>Material for a Display Device. Biomacromolecules, 2020, 21, 581-588.  | 5.4  | 9         |
| 71 | PEGylation of silver nanoparticles by physisorption of cyclic poly(ethylene glycol) for enhanced dispersion stability, antimicrobial activity, and cytotoxicity. Nanoscale Advances, 2022, 4, 532-545.   | 4.6  | 9         |
| 72 | Highly asymmetric lamellar nanostructures from nanoparticle–linear hybrid block copolymers.<br>Nanoscale, 2020, 12, 16526-16534.   | 5.6  | 8         |

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|----|---|-----|-----------|
| 73 | Enhanced Self-Assembly and Mechanical Properties of Cellulose-Based Triblock Copolymers:<br>Comparisons with Amylose-Based Triblock Copolymers. ACS Sustainable Chemistry and Engineering,<br>2021, 9, 9779-9788.   | 6.7 | 8         |
| 74 | Self-Assembled Nanotubes and Nanocoils from ss-Conjugated Building Blocks. , 2008, , 1-27.  |     | 7         |
| 75 | Synthesis of core-fluorescent four-armed star and dicyclic 8-shaped poly(THF)s by electrostatic self-assembly and covalent fixation (ESA–CF) protocol. Reactive and Functional Polymers, 2014, 80, 3-8.   | 4.1 | 7         |
| 76 | Topology effects of cyclic polymers: Controlling the topology for innovative functionalities.<br>Reactive and Functional Polymers, 2018, 132, 43-50.  | 4.1 | 7         |
| 77 | Synthesis and Unimolecular ESA-CF Polymer Cyclization of Zwitterionic Telechelic Precursors.<br>Macromolecules, 2019, 52, 9208-9219.  | 4.8 | 7         |
| 78 | S <sub>N</sub> 2 regioselectivity in the esterification of 5- and 7-membered azacycloalkane quaternary salts: a DFT study to reveal the transition state ring conformation prevailing over the ground state ring strain. Organic and Biomolecular Chemistry, 2014, 12, 6717-6724. | 2.8 | 6         |
| 79 | Synthesis of Î <sup>1</sup> /4-ABC Tricyclic Miktoarm Star Polymer via Intramolecular Click Cyclization. Polymers, 2018, 10, 877.   | 4.5 | 6         |
| 80 | Self-Assembly of Linear and Cyclic Polylactide Stereoblock Copolymers with a Parallel and<br>Antiparallel Chain Arrangement Distinguishing Their Directions on a Water Surface. Langmuir, 2020,<br>36, 6216-6221.   | 3.5 | 6         |
| 81 | Comparative Thermodynamic Studies of the Micellization of Amphiphilic Block Copolymers before and after Cyclization. Langmuir, 2022, 38, 5033-5039.   | 3.5 | 6         |
| 82 | A study on emulsion stabilization induced with linear and cyclized polystyrene-poly(ethylene oxide)<br>block copolymer surfactants. Polymer Journal, 2015, 47, 408-412.   | 2.7 | 5         |
| 83 | Installing a functional group into the inactive ω-chain end of PMMA and PS- <i>b</i> -PMMA by<br>terminal-selective transesterification. Polymer Chemistry, 2019, 10, 3390-3398.  | 3.9 | 5         |
| 84 | Effect of hydrogen–deuterium exchange in amide linkages on properties of electrospun polyamide<br>nanofibers. Polymer, 2021, 229, 123994.   | 3.8 | 5         |
| 85 | Densely Arrayed Cage-Shaped Polymer Topologies Synthesized via Cyclopolymerization of Star-Shaped<br>Macromonomers. Macromolecules, 2021, 54, 9079-9090.  | 4.8 | 5         |
| 86 | Topological Polymer Chemistry: New Synthesis of Cyclic and Multicyclic Polymers and<br><i>Topology Effects</i> Thereby. Kobunshi Ronbunshu, 2011, 68, 782-794.  | 0.2 | 4         |
| 87 | Load-Induced Frictional Transition at a Well-Defined Alkane Loop Surface. Langmuir, 2017, 33, 2396-2401.  | 3.5 | 4         |
| 88 | Cyclization of PEG and Pluronic Surfactants and the Effects of the Topology on Their Interfacial Activity. Langmuir, 2021, 37, 6974-6984.   | 3.5 | 4         |
| 89 | A <i>Twisting</i> Ring Polymer: Synthesis and Thermally Induced Chiroptical Responses of a Cyclic<br>Poly(tetrahydrofuran) Having Axially Chiral Units. Macromolecules, 2017, 50, 5323-5331.  | 4.8 | 3         |
| 90 | Oneâ€Shot Intrablock Crossâ€Linking of Linear Diblock Copolymer to Realize Janusâ€Shaped Singleâ€Chain<br>Nanoparticles. Angewandte Chemie, 2021, 133, 18270-18276.   | 2.0 | 3         |

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| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Molecular Arrangement of Organized Molecular Films of Linear and Cyclic Amphiphilic Block<br>Copolymers with Different Shapes. Transactions of the Materials Research Society of Japan, 2014, 39,<br>79-82.                               | 0.2 | 3         |
| 92  | Suzuki–Miyaura Catalyst-Transfer Polycondensation of Triolborate-Type Carbazole Monomers.<br>Polymers, 2021, 13, 4168.  | 4.5 | 3         |
| 93  | Emergence of Functionalities Originating from the Topology of Polymers. Kobunshi Ronbunshu, 2011,<br>68, 550-561.   | 0.2 | 2         |
| 94  | Effective Synthesis and Crystal Structure of a 24-Membered Cyclic Decanedisulfide Dimer. Chemistry Letters, 2012, 41, 1678-1680.  | 1.3 | 2         |
| 95  | Direct Synthesis of Chainâ€endâ€functionalized Poly(3â€hexylthiophene) without Protecting Groups Using a<br>Zincate Complex. Macromolecular Rapid Communications, 2020, 41, 2000148.  | 3.9 | 2         |
| 96  | Topology-Dependent Interaction of Cyclic Poly(ethylene glycol) Complexed with Gold Nanoparticles against Bovine Serum Albumin for a Colorimetric Change. Langmuir, 2021, , .  | 3.5 | 2         |
| 97  | Topology and Sequence-Dependent Micellization and Phase Separation of Pluronic L35, L64, 10R5, and 17R4: Effects of Cyclization and the Chain Ends. Polymers, 2022, 14, 1823.   | 4.5 | 2         |
| 98  | Fabrication of Ultrafine, Highly Ordered Nanostructures Using Carbohydrate-Inorganic Hybrid Block<br>Copolymers. Nanomaterials, 2022, 12, 1653.   | 4.1 | 2         |
| 99  | SELF-ASSEMBLY AND FUNCTIONS OF CYCLIC POLYMERS. , 2013, , 329-347.  |     | 0         |
| 100 | Synthesis of Cyclic Polymers and Characterization of Their Diffusive Motion in the Melt State at the Single Molecule Level. Journal of Visualized Experiments, 2016, , .  | 0.3 | 0         |
| 101 | Metalâ€Organic Frameworks for Practical Separation of Cyclic and Linear Polymers. Angewandte<br>Chemie, 2021, 133, 11936-11940.   | 2.0 | 0         |
| 102 | Recent Developments in the Synthesis of Cyclic Polymers by Ring-Expansion Polymerization. Yuki Gosei<br>Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2009, 67, 947-948.   | 0.1 | 0         |
| 103 | Dependency of the "Shape" on Surface Morphology of Organized Molecular Films of Cyclic and Linear<br>Block Copolymer of Polyethylene Oxide – Butyl Acrylate. Transactions of the Materials Research<br>Society of Japan, 2014, 39, 83-86. | 0.2 | 0         |