

# Yasuyuki Tezuka

## List of Publications by Year in descending order

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103  
papers

4,213  
citations

101543

36  
h-index

123424

61  
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116  
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116  
docs citations

116  
times ranked

1857  
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological polymer chemistry: a cyclic approach toward novel polymer properties and functions. <i>Polymer Chemistry</i> , 2011, 2, 1930.	3.9	255
2	Designing Unusual Polymer Topologies by Electrostatic Self-Assembly and Covalent Fixation. <i>Journal of the American Chemical Society</i> , 2000, 122, 9592-9599.	13.7	223
3	Topology-Directed Control on Thermal Stability: Micelles Formed from Linear and Cyclized Amphiphilic Block Copolymers. <i>Journal of the American Chemical Society</i> , 2010, 132, 10251-10253.	13.7	200
4	Topological Polymer Chemistry: A Systematic Classification of Nonlinear Polymer Topologies. <i>Journal of the American Chemical Society</i> , 2001, 123, 11570-11576.	13.7	162
5	Tuneable enhancement of the salt and thermal stability of polymeric micelles by cyclized amphiphiles. <i>Nature Communications</i> , 2013, 4, 1574.	12.8	149
6	Topological polymer chemistry. <i>Progress in Polymer Science</i> , 2002, 27, 1069-1122.	24.7	142
7	Cyclic polymers revealing topology effects upon self-assemblies, dynamics and responses. <i>Soft Matter</i> , 2015, 11, 7458-7468.	2.7	130
8	Effective Click Construction of <i>Bridged</i> - and <i>Spiro</i> -Multicyclic Polymer Topologies with Tailored Cyclic Prepolymers ( <i>kyklo</i> -Telechelics). <i>Journal of the American Chemical Society</i> , 2010, 132, 14790-14802.	13.7	129
9	Light- and Heat-Triggered Reversible Linear $\leftrightarrow$ Cyclic Topological Conversion of Telechelic Polymers with Anthryl End Groups. <i>Journal of the American Chemical Society</i> , 2016, 138, 3904-3911.	13.7	126
10	Novel Synthesis of Single- and Double-Cyclic Polystyrenes by Electrostatic Self-Assembly and Covalent Fixation with Telechelics Having Cyclic Ammonium Salt Groups. <i>Macromolecules</i> , 2001, 34, 2776-2782.	4.8	85
11	A Cyclic Macromonomer Designed for a Novel Polymer Network Architecture Having Both Covalent and Physical Linkages. <i>Macromolecules</i> , 2001, 34, 6229-6234.	4.8	77
12	Metathesis Polymer Cyclization with Telechelic Poly(THF) Having Allyl Groups. <i>Macromolecules</i> , 2002, 35, 8667-8669.	4.8	77
13	Construction of Polymeric $\hat{\Gamma}$ -Graph: A Doubly Fused Tricyclic Topology. <i>Journal of the American Chemical Society</i> , 2005, 127, 6266-6270.	13.7	77
14	Multimode Diffusion of Ring Polymer Molecules Revealed by a Single $\leftrightarrow$ Molecule Study. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1418-1421.	13.8	76
15	Topological Polymer Chemistry. , 2013, , .		75
16	A <i>Defect</i> -Free Ring Polymer: Size-Controlled Cyclic Poly(tetrahydrofuran) Consisting Exclusively of the Monomer Unit. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1237-1241.	3.9	74
17	Synthesis of Orientationally Isomeric Cyclic Stereoblock Polylactides with Head-to-Head and Head-to-Tail Linkages of the Enantiomeric Segments. <i>ACS Macro Letters</i> , 2012, 1, 902-906.	4.8	74
18	ATRP $\rightarrow$ RCM Synthesis of Cyclic Diblock Copolymers. <i>Macromolecules</i> , 2008, 41, 7898-7903.	4.8	71

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19	A Programmed Polymer Folding: Click and Clip Construction of Doubly Fused Tricyclic and Triply Fused Tetracyclic Polymer Topologies. <i>Journal of the American Chemical Society</i> , 2011, 133, 19694-19697.	13.7	70
20	Topological Polymer Chemistry Designing Complex Macromolecular Graph Constructions. <i>Accounts of Chemical Research</i> , 2017, 50, 2661-2672.	15.6	70
21	Designing 8-Shaped Polymer Topology by Metathesis Condensation with Cyclic Poly(THF) Precursors Having Allyl Groups. <i>Macromolecules</i> , 2003, 36, 12-17.	4.8	69
22	Synthesis of $\hat{1}$ -Shaped Poly(THF) by Electrostatic Self-Assembly and Covalent Fixation with Three-Armed Star Telechelics Having Cyclic Ammonium Salt Groups. <i>Macromolecules</i> , 2003, 36, 65-70.	4.8	61
23	Topological polymer chemistry for designing multicyclic macromolecular architectures. <i>Polymer Journal</i> , 2012, 44, 1159-1169.	2.7	60
24	Telechelic polymers. <i>Progress in Polymer Science</i> , 1992, 17, 471-514.	24.7	57
25	Constructing a Macromolecular $K_{3,3}$ Graph through Electrostatic Self-Assembly and Covalent Fixation with a Dendritic Polymer Precursor. <i>Journal of the American Chemical Society</i> , 2014, 136, 10148-10155.	13.7	53
26	An Efficient Route to Cyclic Polymers by ATRP-RCM Process. <i>Chemistry Letters</i> , 2007, 36, 982-983.	1.3	52
27	Photoinduced topological transformation of cyclized polylactides for switching the properties of homocrystals and stereocomplexes. <i>Polymer Chemistry</i> , 2015, 6, 3591-3600.	3.9	51
28	Tailored Synthesis of Branched and Network Polymer Structures by Electrostatic Self-Assembly and Covalent Fixation with Telechelic Poly(THF) Having N-Phenylpyrrolidinium Salt Groups. <i>Macromolecules</i> , 1999, 32, 4819-4825.	4.8	46
29	Kyko-Telechelics: Tailored Synthesis of Cyclic Poly(tetrahydrofuran)s Having Two Functional Groups at Opposite Positions. <i>Macromolecules</i> , 2001, 34, 2742-2744.	4.8	46
30	Efficient Synthesis of Cyclic Poly(oxyethylene) by Electrostatic Self-Assembly and Covalent Fixation with Telechelic Precursor Having Cyclic Ammonium Salt Groups. <i>Macromolecules</i> , 2002, 35, 5707-5711.	4.8	46
31	Self-Assembly and Covalent Fixation for Topological Polymer Chemistry. <i>Macromolecular Rapid Communications</i> , 2001, 22, 1017-1029.	3.9	43
32	Efficient Polymer Cyclization by Electrostatic Self-Assembly and Covalent Fixation with Telechelic Poly(tetrahydrofuran) Having Cyclic Ammonium Salt Groups. <i>Macromolecules</i> , 2001, 34, 6592-6600.	4.8	42
33	Topological polymer chemistry by electrostatic self-assembly. <i>Journal of Polymer Science Part A</i> , 2003, 41, 2905-2917.	2.3	40
34	Synthesis of Polymeric Topological Isomers through Double Metathesis Condensation with H-Shaped Telechelic Precursors. <i>Macromolecular Rapid Communications</i> , 2005, 26, 608-612.	3.9	40
35	Designing Loop and Branch Polymer Topology with Cationic Star Telechelics through Effective Selection of Mono- and Difunctional Counteranions. <i>Macromolecules</i> , 2004, 37, 7595-7601.	4.8	39
36	Designing an $\infty$ A-Ring-with-Branched Polymer Topology by Electrostatic Self-Assembly and Covalent Fixation with Interiorly Functionalized Telechelics Having Cyclic Ammonium Groups. <i>Macromolecular Rapid Communications</i> , 2001, 22, 1128.	3.9	38

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37	Electrostatic Self-Assembly and Covalent Fixation with Cationic and Anionic Telechelic Precursors for New Loop and Branch Polymer Topologies. <i>Macromolecules</i> , 2005, 38, 10210-10219.	4.8	36
38	Folding Construction of a Pentacyclic Quadruply <i>kyklo</i> -fused Polymer Topology with Tailored <i>kyklo</i> -Telechelic Precursors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8688-8692.	13.8	36
39	Telechelics Having Unstrained Cyclic Ammonium Salt Groups for Electrostatic Polymer Self-Assembly and Ring-Emitting Covalent Fixation. <i>Macromolecules</i> , 2006, 39, 5585-5588.	4.8	34
40	Recent advances in the construction of cyclic grafted polymers and their potential applications. <i>Polymer Chemistry</i> , 2018, 9, 677-686.	3.9	34
41	Topological polymer chemistry by dynamic selection from electrostatic polymer self-assembly. <i>Chemical Record</i> , 2005, 5, 17-26.	5.8	33
42	Single-Molecule Study on Polymer Diffusion in a Melt State: Effect of Chain Topology. <i>Analytical Chemistry</i> , 2013, 85, 7369-7376.	6.5	33
43	Effective Synthesis of Polymer Catenanes by Cooperative Electrostatic/Hydrogen-Bonding Self-Assembly and Covalent Fixation. <i>Macromolecules</i> , 2010, 43, 168-176.	4.8	32
44	Synthesis of Polymeric Topological Isomers Having $\hat{1}$ - and Manacle-Constructions with Olefinic Groups at Designated Positions. <i>Macromolecules</i> , 2007, 40, 7910-7918.	4.8	30
45	Construction of Double-Eight and Double-Trefoil Polymer Topologies with Core-Clickable <i>kyklo</i> -Telechelic Precursors. <i>Macromolecules</i> , 2014, 47, 8214-8223.	4.8	30
46	Programmed Polymer Folding with Periodically Positioned Tetrafunctional Telechelic Precursors by Cyclic Ammonium Salt Units as Nodal Points. <i>Journal of the American Chemical Society</i> , 2019, 141, 7526-7536.	13.7	29
47	Liquid Chromatography of Theta-Shaped and Three-Armed Star Poly(tetrahydrofuran)s: Theory and Experimental Evidence of Topological Separation. <i>Analytical Chemistry</i> , 2008, 80, 8153-8162.	6.5	27
48	Folding Construction of Doubly Fused Tricyclic, $\hat{1}^2$ - and $\hat{1}^3$ -Graph Polymer Topologies with <i>kyklo</i> -Telechelic Precursors Obtained through an Orthogonal Click/ESA-CF Protocol. <i>Macromolecules</i> , 2013, 46, 7303-7315.	4.8	27
49	ATRP-RCM polymercyclization: synthesis of amphiphilic cyclic polystyrene-b-poly(ethylene oxide) copolymers. <i>Polymer Chemistry</i> , 2012, 3, 1903-1909.	3.9	26
50	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1987, 188, 791-797.	1.1	25
51	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1987, 188, 783-789.	1.1	24
52	Synthesis of Polymeric Topological Isomers through Electrostatic Self-Assembly and Covalent Fixation with Star Telechelic Precursors. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1531-1535.	3.9	24
53	ATRP-RCM Synthesis of 8-Shaped Poly(methyl acrylate) Using a 4-Armed Star Telechelics. <i>Polymer Journal</i> , 2008, 40, 572-576.	2.7	23
54	Click Construction of Spiro- and Bridged-Quatrefoil Polymer Topologies with <i>kyklo</i> -Telechelics Having an Azide Group. <i>Macromolecular Rapid Communications</i> , 2014, 35, 412-416.	3.9	23

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55	Benzylic triflates prepared in-situ: novel initiators for mono-, bi- and trifunctional living poly(THF)s. <i>Macromolecular Rapid Communications</i> , 2000, 21, 1185-1190.	3.9	22
56	Synthesis of polymeric topological isomers through electrostatic self-assembly and covalent fixation with telechelic poly(THF) having cyclic ammonium salt groups. <i>Polymer International</i> , 2003, 52, 1579-1583.	3.1	22
57	Phase separation and self-assembly of cyclic amphiphilic block copolymers with a main-chain liquid crystalline segment. <i>Polymer Chemistry</i> , 2015, 6, 4167-4176.	3.9	22
58	Construction of Hybrid-Multicyclic Polymer Topologies Composed of Dicyclic Structure Units by Means of An ESA-CF/Click-Linking Protocol. <i>Macromolecules</i> , 2016, 49, 4076-4087.	4.8	21
59	Tailored Synthesis of Star and Network Poly(dimethylsiloxane)s through Electrostatic Self-Assembly and Subsequent Covalent Fixation of Telechelics Having Cyclic Onium Salt Groups. <i>Macromolecules</i> , 1997, 30, 5220-5226.	4.8	19
60	Synthesis and Topological Conversion of an 8-shaped Poly(THF) Having a Metathesis-Cleavable Unit at the Focal Position. <i>Macromolecules</i> , 2010, 43, 7062-7067.	4.8	19
61	Macrocyclic poly( <i>p</i> -phenylenevinylene)s by ring expansion metathesis polymerisation and their characterisation by single-molecule spectroscopy. <i>Chemical Science</i> , 2018, 9, 2934-2941.	7.4	19
62	Topological Polymer Chemistry in Pursuit of Elusive Polymer Ring Constructions. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2009, 67, 1136-1143.	0.1	18
63	Synthesis, Isolation, and Properties of All Head-to-Tail Cyclic Poly(3-hexylthiophene): Fully Delocalized Exciton over the Defect-Free Ring Polymer. <i>Macromolecules</i> , 2018, 51, 9284-9293.	4.8	17
64	Synthesis and ion-coupling reactions of telechelic polystyrene having cyclic onium salt groups. <i>Macromolecular Chemistry and Physics</i> , 1997, 198, 627-641.	2.2	16
65	Topological polymer chemistry by programmed self-assembly and effective linking chemistry. <i>European Polymer Journal</i> , 2011, 47, 535-541.	5.4	16
66	NMR Relaxometry for the Thermal Stability and Phase Transition Mechanism of Flower-like Micelles from Linear and Cyclic Amphiphilic Block Copolymers. <i>Langmuir</i> , 2015, 31, 8739-8744.	3.5	16
67	Ion-Coupling Synthesis of Polymacromonomer by Uniform Size Poly(tetrahydrofuran) Having a Cyclic Onium Salt End Group. <i>Macromolecules</i> , 1995, 28, 3038-3041.	4.8	15
68	Control in Both Backbone and Branch Segment Lengths of Poly(tetrahydrofuran) Polymacromonomers by Electrostatic Self-Assembly and Covalent Fixation. <i>Macromolecules</i> , 1999, 32, 8666-8670.	4.8	14
69	Synthesis of Poly(tetrahydrofuran) Polymacromonomers Having Mixed Branch Segments through Reshuffling in Electrostatic Self-Assembly and Subsequent Covalent Fixation. <i>Macromolecules</i> , 1999, 32, 8816-8820.	4.8	14
70	Cationic ring-opening polymerization of N-phenylazetidine. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 1673-1678.	2.2	13
71	Synthesis and palladium-mediated cross-coupling reaction of cyclic (kyklo-) and open-chain (kentro-) telechelic precursors. <i>Reactive and Functional Polymers</i> , 2007, 67, 1233-1242.	4.1	13
72	Formation and Properties of Vesicles from Cyclic Amphiphilic PS-PEO Block Copolymers. <i>Langmuir</i> , 2016, 32, 10344-10349.	3.5	13

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73	ESA-CF Synthesis of Linear and Cyclic Polymers Having Densely Appended Perylene Units and Topology Effects on Their Thin-Film Electron Mobility. <i>Macromolecules</i> , 2016, 49, 5831-5840.	4.8	13
74	Cyclic and topological polymers: Ongoing innovations and upcoming breakthroughs. <i>Reactive and Functional Polymers</i> , 2020, 148, 104489.	4.1	13
75	Ring-opening reaction of 5-membered cyclic ammonium salt groups at the end of poly(tetrahydrofuran). <i>Reactive and Functional Polymers</i> , 1998, 37, 57-63.	4.1	12
76	Tailored synthesis of branched polymers with poly(tetrahydrofuran) having an azetidinium salt end group. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 768-773.	2.2	12
77	Hydrogel formation by the "topological conversion" of cyclic PLA-PEO block copolymers. <i>Polymer Journal</i> , 2016, 48, 391-398.	2.7	12
78	Designing polymer topology by electrostatic self-assembly and covalent fixation. <i>Macromolecular Symposia</i> , 2000, 161, 159-168.	0.7	11
79	Bis(triflate ester)s Having an Additional Functional Group: Initiators for the Preparation of $\beta$ -keto-Telechelic Poly(THF)s. <i>Macromolecules</i> , 2000, 33, 8898-8903.	4.8	11
80	Synthesis of macrocyclised dimetric compounds and their liquid crystal transition behaviours. <i>Liquid Crystals</i> , 2009, 36, 1443-1450.	2.2	11
81	Surface Modification by Electrostatic Self-Assembly Followed by Covalent Fixation. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1849-1852.	13.8	10
82	Systematic Synthesis of Block Copolymers Consisting of Topological Amphiphilic Segment Pairs from $\beta$ - and $\beta$ -Telechelic PEO and Poly(THF). <i>ACS Macro Letters</i> , 2013, 2, 427-431.	4.8	10
83	Single-molecule imaging reveals topological isomer-dependent diffusion by 4-armed star and dicyclic 8-shaped polymers. <i>Polymer Chemistry</i> , 2015, 6, 4109-4115.	3.9	10
84	Regioselective Ring-Emitting Esterification on Azacyclohexane Quaternary Salts: A DFT and Synthetic Study for Covalent Fixation of Electrostatic Polymer Self-Assemblies. <i>Journal of Organic Chemistry</i> , 2013, 78, 3086-3094.	3.2	9
85	Concise Click/ESA-CF Synthesis of Periodically-Positioned Trifunctional $\beta$ -Telechelic Poly(THF)s. <i>Macromolecules</i> , 2015, 48, 6077-6086.	4.8	9
86	Topological "interfacial" polymer chemistry: Dependency of polymer "shape" on surface morphology and stability of layer structures when heating organized molecular films of cyclic and linear block copolymers of $n$ -butyl acrylate-ethylene oxide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 486-498.	2.1	9
87	Covalent Conversion of Cyclic Onium Salt End Groups of Poly(tetrahydrofuran) by Bulky Counteranions in the Absence and Presence of Macrocyclic Compounds. <i>Macromolecules</i> , 1999, 32, 2876-2882.	4.8	8
88	Topology of Polymers. <i>SpringerBriefs in the Mathematics of Materials</i> , 2019, , .	0.3	8
89	Topological polymer chemistry: classification and construction of nonlinear polymer architectures. <i>Macromolecular Symposia</i> , 2003, 192, 217-226.	0.7	7
90	Synthesis of core-fluorescent four-armed star and dicyclic 8-shaped poly(THF)s by electrostatic self-assembly and covalent fixation (ESA-CF) protocol. <i>Reactive and Functional Polymers</i> , 2014, 80, 3-8.	4.1	7

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91	Synthesis and Unimolecular ESA-CF Polymer Cyclization of Zwitterionic Telechelic Precursors. <i>Macromolecules</i> , 2019, 52, 9208-9219.	4.8	7
92	Topological Polymer Chemistry: A Personal Reflection Upon the Evolution and Prospects of Synthetic Macromolecular Chemistry. <i>Israel Journal of Chemistry</i> , 2020, 60, 67-74.	2.3	7
93	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. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 6717-6724.	2.8	6
94	Self-Assembly of Linear and Cyclic Polylactide Stereoblock Copolymers with a Parallel and Antiparallel Chain Arrangement Distinguishing Their Directions on a Water Surface. <i>Langmuir</i> , 2020, 36, 6216-6221.	3.5	6
95	Comparative Thermodynamic Studies of the Micellization of Amphiphilic Block Copolymers before and after Cyclization. <i>Langmuir</i> , 2022, 38, 5033-5039.	3.5	6
96	A study on emulsion stabilization induced with linear and cyclized polystyrene-poly(ethylene oxide) block copolymer surfactants. <i>Polymer Journal</i> , 2015, 47, 408-412.	2.7	5
97	Topological Polymer Chemistry: New Synthesis of Cyclic and Multicyclic Polymers and Topology Effects; Thereby. <i>Kobunshi Ronbunshu</i> , 2011, 68, 782-794.	0.2	4
98	A Twisting Ring Polymer: Synthesis and Thermally Induced Chiroptical Responses of a Cyclic Poly(tetrahydrofuran) Having Axially Chiral Units. <i>Macromolecules</i> , 2017, 50, 5323-5331.	4.8	3
99	Molecular Arrangement of Organized Molecular Films of Linear and Cyclic Amphiphilic Block Copolymers with Different Shapes. <i>Transactions of the Materials Research Society of Japan</i> , 2014, 39, 79-82.	0.2	3
100	Self-Assembly and Covalent Fixation for Topological Polymer Chemistry. <i>Macromolecular Rapid Communications</i> , 2001, 22, 1017.	3.9	2
101	Topological Polymer Chemistry: Concepts and Practices for Novel Polymer Materials Design. <i>Hyomen Kagaku</i> , 2013, 34, 27-32.	0.0	0
102	Synthesis of Cyclic Polymers and Characterization of Their Diffusive Motion in the Melt State at the Single Molecule Level. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	0
103	Dependency of the "Shape" on Surface Morphology of Organized Molecular Films of Cyclic and Linear Block Copolymer of Polyethylene Oxide " Butyl Acrylate. <i>Transactions of the Materials Research Society of Japan</i> , 2014, 39, 83-86.	0.2	0