

Satoshi Uchida

List of Publications by Year in descending order

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69
papers

1,846
citations

236612

25
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41
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71
all docs

71
docs citations

71
times ranked

1440
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing Libraries of First Generation AB ₃ and AB ₂ Self-Assembling Dendrons via the Primary Structure Generated from Combinations of (AB) ₂ and (AB) ₃ Building Blocks. <i>Journal of the American Chemical Society</i> , 2004, 126, 6078-6094.	6.6	200
2	Architecture of nanostructured polymers. <i>Progress in Polymer Science</i> , 2003, 28, 27-54.	11.8	158
3	Exploring and Expanding the Three-Dimensional Structural Diversity of Supramolecular Dendrimers with the Aid of Libraries of Alkali Metals of Their AB ₃ Minidendritic Carboxylates. <i>Chemistry - A European Journal</i> , 2002, 8, 1106.	1.7	111
4	Exploring and Expanding the Structural Diversity of Self-Assembling Dendrons through Combinations of AB, Constitutional Isomeric AB ₂ , and AB ₃ Biphenyl-4-Methyl Ether Building Blocks. <i>Chemistry - A European Journal</i> , 2006, 12, 6216-6241.	1.7	88
5	Synthesis of Vinylic Macromolecular Rotaxane Cross-Linkers Endowing Network Polymers with Toughness. <i>ACS Macro Letters</i> , 2015, 4, 598-601.	2.3	76
6	A Rational Entry to Cyclic Polymers via Selective Cyclization by Self-Assembly and Topology Transformation of Linear Polymers. <i>Journal of the American Chemical Society</i> , 2017, 139, 6791-6794.	6.6	63
7	Star/Linear Polymer Topology Transformation Facilitated by Mechanical Linking of Polymer Chains. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6770-6774.	7.2	57
8	Effective Approach to Cyclic Polymer from Linear Polymer: Synthesis and Transformation of Macromolecular [1]Rotaxane. <i>ACS Macro Letters</i> , 2015, 4, 343-347.	2.3	55
9	Elucidating the Structure of the $Pm\bar{3}n$ Cubic Phase of Supramolecular Dendrimers through the Modification of their Aliphatic to Aromatic Volume Ratio. <i>Chemistry - A European Journal</i> , 2009, 15, 8994-9004.	1.7	51
10	Thermoresponsive Shuttling of Rotaxane Containing Trichloroacetate Ion. <i>Organic Letters</i> , 2012, 14, 4122-4125.	2.4	51
11	Superlattice Formation on Star Polymer Solutions. <i>Journal of Colloid and Interface Science</i> , 1997, 192, 189-193.	5.0	42
12	A Novel Polymeric Chemosensor: Dual Colorimetric Detection of Metal Ions Through Click Synthesis. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1804-1808.	2.0	38
13	Macromolecular [2]Rotaxanes: Effective Synthesis and Characterization. <i>ACS Macro Letters</i> , 2013, 2, 461-465.	2.3	37
14	Polyester-Containing β -Cyclodextrin-Based Polyrotaxane: Synthesis by Living Ring-Opening Polymerization, Polypseudorotaxanation, and End Capping Using Nitrile N -Oxide. <i>ACS Macro Letters</i> , 2013, 2, 527-530.	2.3	35
15	Colorimetric sensing of cations and anions by clicked polystyrenes bearing side chain donor-acceptor chromophores. <i>Polymer Chemistry</i> , 2012, 3, 1996.	1.9	33
16	Mechanically Linked Block/Graft Copolymers: Effective Synthesis via Functional Macromolecular [2]Rotaxanes. <i>ACS Macro Letters</i> , 2014, 3, 324-328.	2.3	32
17	Synthesis of Highly Reactive Polymer Nitrile N -Oxides for Effective Solvent-Free Grafting. <i>ACS Macro Letters</i> , 2014, 3, 286-290.	2.3	32
18	Ordered lattice formation of (AB) _n type star copolymers. <i>Polymer</i> , 1994, 35, 4712-4716.	1.8	31

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19	Polymer nitrile N-oxides directed toward catalyst- and solvent-free click grafting. <i>Chemical Communications</i> , 2013, 49, 7723.	2.2	31
20	Stimuli-degradable cross-linked polymers synthesized by radical polymerization using a size-complementary [3]rotaxane cross-linker. <i>Polymer Journal</i> , 2014, 46, 67-72.	1.3	31
21	Synthesis and properties of rotaxane-cross-linked polymers using a double-stranded β -CD-based inclusion complex as a supramolecular cross-linker. <i>Polymer</i> , 2017, 128, 379-385.	1.8	30
22	Encapsulation of silver nanoparticles within double-cylinder-type copolymer brushes as templates. <i>Polymers for Advanced Technologies</i> , 2005, 16, 834-839.	1.6	29
23	Effect of Component Mobility on the Properties of Macromolecular [2]Rotaxanes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2778-2781.	7.2	29
24	Catalyst-free click cascade functionalization of unsaturated-bond-containing polymers using masked-ketene-tethering nitrile N-oxide. <i>Polymer</i> , 2013, 54, 4501-4510.	1.8	28
25	Structural Ordering in (AB) _n -Type Star Copolymer Solutions. <i>Journal of Colloid and Interface Science</i> , 1995, 175, 293-296.	5.0	26
26	Synthesis and solution properties of alternating maleimide/styrene hyperbranched copolymers via controlled radical mechanism. <i>Polymer International</i> , 2003, 52, 1010-1015.	1.6	26
27	Encapsulation of Polypyrrole by Internal Domain Modification of Double-Cylinder-Type Copolymer Brushes. <i>Macromolecules</i> , 2002, 35, 10193-10197.	2.2	24
28	Geometrical structure of star polymers in solution. <i>Macromolecular Chemistry and Physics</i> , 1997, 198, 3255-3265.	1.1	21
29	Fluorescent poly(boron enaminoketonate)s: synthesis via the direct modification of polyisoxazoles obtained from the click polymerization of a homoditopic nitrile N-oxide and diynes. <i>Polymer Journal</i> , 2014, 46, 609-616.	1.3	20
30	Exact helical polymer synthesis by a two-point-covalent-linking protocol between C ₂ -chiral spirobifluorene and C ₂ - or C _s -symmetric anthraquinone monomers. <i>Chemical Communications</i> , 2015, 51, 10423-10426.	2.2	19
31	Reversible Transformation of a One-Handed Helical Foldamer Utilizing a Planarity-Switchable Spacer and C ₂ -Chiral Spirobifluorene Units. <i>ACS Macro Letters</i> , 2015, 4, 462-466.	2.3	19
32	Synthesis and characterization of a mechanically linked transformable polymer. <i>Polymer Journal</i> , 2014, 46, 546-552.	1.3	18
33	Preparation and microphase-separated structures of (AB) _n star block copolymers composed of symmetric diblock arms. <i>Polymer</i> , 1999, 40, 1019-1023.	1.8	17
34	Thermotriggered Catalyst-Free Modification of a Glass Surface with an Orthogonal Agent Possessing Nitrile N-Oxide and Masked Ketene Functions. <i>Langmuir</i> , 2016, 32, 309-315.	1.6	16
35	Emulsion-Induced Ordered Microporous Films Based on Micelles of Amphiphilic Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 2007, 28, 882-887.	2.0	15
36	Living Anionic Addition Reaction of 1,1-Diphenylethylene Derivatives: One-Pot Synthesis of ABC-type Chain-End Sequence-Controlled Polymers. <i>Journal of the American Chemical Society</i> , 2021, 143, 11296-11301.	6.6	15

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37	Novel synthesis and solution properties of hyperbranched poly(ethyl methacrylate)s by quasi-living radical copolymerization using photofunctional inimer. <i>Polymer International</i> , 2004, 53, 259-265.	1.6	14
38	Structural Ordering in (AB) _n Star Copolymer Solutions. <i>Journal of Colloid and Interface Science</i> , 1998, 203, 153-156.	5.0	13
39	Living Anionic Polymerization of 4-Adamantyl Vinylphenyl ketone. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700015.	1.1	13
40	Synthesis of a well-defined alternating copolymer of 1,1-diphenylethylene and <i>tert</i> -butyldimethylsilyloxymethyl substituted styrene by anionic copolymerization: toward tailored graft copolymers with controlled side chain densities. <i>Polymer Chemistry</i> , 2019, 10, 6413-6422.	1.9	11
41	Synthesis and characterization of polyfunctional star-shaped macromonomers. <i>Polymer</i> , 1999, 40, 3229-3232.	1.8	10
42	Architecture of multi-component copolymer brushes. <i>Designed Monomers and Polymers</i> , 2002, 5, 23-38.	0.7	10
43	Allylidene Monomers: Anionically Polymerizable 1,1-Disubstituted 1,3-Diene Derivatives. <i>Macromolecules</i> , 2020, 53, 10107-10116.	2.2	10
44	Topology-transformable block copolymers based on a rotaxane structure: change in bulk properties with same composition. <i>Nature Communications</i> , 2021, 12, 6175.	5.8	10
45	Novel synthesis of rod-coil block copolymers by combination of coordination polymerization and ATRP. <i>Journal of Polymer Science Part A</i> , 2007, 45, 4037-4042.	2.5	9
46	Architecture of hyperbranched polymers consisting of a stearyl methacrylate sequence via a living radical copolymerization. <i>Journal of Colloid and Interface Science</i> , 2008, 323, 242-246.	5.0	9
47	Synthesis of tailored core-brush polymer particles via a living radical polymerization and architecture of colloidal crystals. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 69-75.	5.0	9
48	Effect of Component Mobility on the Properties of Macromolecular [2]Rotaxanes. <i>Angewandte Chemie</i> , 2016, 128, 2828-2831.	1.6	9
49	Synthesis and polyelectrolyte behavior of poly(methacrylic acid) star polymers. <i>Journal of Applied Polymer Science</i> , 2007, 105, 1543-1550.	1.3	8
50	Emulsion-induced ordered microporous films using amphiphilic poly(ethylene oxide)- <i>block</i> -poly(styrene) triblock copolymer. <i>Journal of Colloid and Interface Science</i> , 2008, 108, 3753-3759.	1.3	8
51	Architecture of polymer particles composed of brush structure at surfaces and construction of colloidal crystals. <i>Journal of Colloid and Interface Science</i> , 2009, 340, 27-34.	5.0	8
52	Ordered Microporous Surface Films Formed by Core-Shell-Type Nanospheres. <i>Macromolecular Rapid Communications</i> , 2006, 27, 961-965.	2.0	7
53	Anionic Polymerization of Divinylbenzenes Possessing Methoxy Group. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600550.	1.1	7
54	Structural Ordering in Star Polymer Solutions. <i>Polymer-Plastics Technology and Engineering</i> , 1997, 36, 461-471.	1.9	6

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55	Novel synthesis of poly(methyl methacrylate) brush encapsulated silica particles. <i>Journal of Applied Polymer Science</i> , 2008, 109, 3968-3974.	1.3	6
56	Synthesis of main chain-type liquid crystalline polyrotaxanes: influence of the wheel components and their mobility on liquid crystalline properties. <i>Polymer Journal</i> , 2014, 46, 553-558.	1.3	6
57	Synthesis of chain end acyl-functionalized polymers by living anionic polymerization: versatile precursors for H-shaped polymers. <i>Polymer Chemistry</i> , 2019, 10, 3951-3959.	1.9	6
58	Living Anionic Polymerization of 4-Halostyrenes. <i>Macromolecules</i> , 2021, 54, 1489-1498.	2.2	6
59	Synthesis and Structural Ordering of Gradient-Modulus Star Copolymers. <i>Journal of Colloid and Interface Science</i> , 1999, 213, 62-67.	5.0	5
60	Polymerizability of exomethylene monomers based on adamantyl frameworks. <i>Polymer Chemistry</i> , 2021, 12, 3602-3611.	1.9	5
61	Encapsulation of silver nanoparticles within micropores of block copolymers constructed by emulsion-induced method. <i>Journal of Polymer Science Part A</i> , 2008, 46, 3429-3432.	2.5	4
62	Architecture of rod-brush block copolymers synthesized by a combination of coordination polymerization and atom transfer radical polymerization. <i>Journal of Applied Polymer Science</i> , 2008, 108, 3346-3352.	1.3	4
63	Synthesis of silica hybrid nanoparticles modified with photofunctional polymers and construction of colloidal crystals. <i>Journal of Applied Polymer Science</i> , 2009, 112, 2434-2440.	1.3	4
64	Synthesis and Characterization of Alternating and Random Copolymer Brushes. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 1717-1725.	1.1	3
65	Architecture of prototype copolymer brushes composed of alternating structure and intramolecular phase separation of side chains in solution. <i>Journal of Applied Polymer Science</i> , 2010, 116, 2298-2304.	1.3	3
66	Effect of branching topology on polymer crystallinity. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 1525-1527.	2.4	2
67	Architecture of rod consisting of hyperbranched pendant chains-coil block copolymers by ATRP approach. <i>Journal of Applied Polymer Science</i> , 2008, 109, 3554-3561.	1.3	2
68	Architecture of colloidal crystals constructed by silica hybrid nanoparticles. <i>Journal of Applied Polymer Science</i> , 2011, 120, 43-49.	1.3	2
69	Simple Chemical Modification Using Perfluoroalkyl-Substituted Stable Nitrile N-Oxide on Bulk Surface via Catalyst-Free Click Reaction. <i>ChemistrySelect</i> , 2020, 5, 5312-5315.	0.7	2