

# Yoshinori Takashima

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3650384/yoshinori-takashima-publications-by-citations.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

158  
papers

11,671  
citations

50  
h-index

107  
g-index

176  
ext. papers

12,830  
ext. citations

7.7  
avg, IF

6.65  
L-index

#	Paper	IF	Citations
158	Redox-responsive self-healing materials formed from host-guest polymers. <i>Nature Communications</i> , <b>2011</b> , 2, 511	17.4	1029
157	Polymeric rotaxanes. <i>Chemical Reviews</i> , <b>2009</b> , 109, 5974-6023	68.1	739
156	Cyclodextrin-based supramolecular polymers. <i>Chemical Society Reviews</i> , <b>2009</b> , 38, 875-82	58.5	702
155	Supramolecular polymeric materials via cyclodextrin-guest interactions. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 2128-40	24.3	641
154	Macroscopic self-assembly through molecular recognition. <i>Nature Chemistry</i> , <b>2011</b> , 3, 34-7	17.6	614
153	Expansion-contraction of photoresponsive artificial muscle regulated by host-guest interactions. <i>Nature Communications</i> , <b>2012</b> , 3, 1270	17.4	522
152	Preorganized hydrogel: self-healing properties of supramolecular hydrogels formed by polymerization of host-guest-monomers that contain cyclodextrins and hydrophobic guest groups. <i>Advanced Materials</i> , <b>2013</b> , 25, 2849-53	24	448
151	Self-Healing, Expansion-Contraction, and Shape-Memory Properties of a Preorganized Supramolecular Hydrogel through Host-Guest Interactions. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 8984-7	16.4	379
150	Photoswitchable supramolecular hydrogels formed by cyclodextrins and azobenzene polymers. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 7461-4	16.4	369
149	Photoswitchable gel assembly based on molecular recognition. <i>Nature Communications</i> , <b>2012</b> , 3, 603	17.4	367
148	Fast response dry-type artificial molecular muscles with [c2]daisy chains. <i>Nature Chemistry</i> , <b>2016</b> , 8, 625-32.6	37.6	283
147	Chemically-responsive sol-gel transition of supramolecular single-walled carbon nanotubes (SWNTs) hydrogel made by hybrids of SWNTs and cyclodextrins. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 4878-9	16.4	237
146	Redox-generated mechanical motion of a supramolecular polymeric actuator based on host-guest interactions. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 5731-5	16.4	175
145	Chiral supramolecular polymers formed by host-guest interactions. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 2984-9	16.4	174
144	Highly Flexible, Tough, and Self-Healing Supramolecular Polymeric Materials Using Host-Guest Interaction. <i>Macromolecular Rapid Communications</i> , <b>2016</b> , 37, 86-92	4.8	171
143	A chemical-responsive supramolecular hydrogel from modified cyclodextrins. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 5144-7	16.4	161
142	External stimulus-responsive supramolecular structures formed by a stilbene cyclodextrin dimer. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12630-1	16.4	143

141	Preparation of Supramolecular Polymers from a Cyclodextrin Dimer and Ditopic Guest Molecules: Control of Structure by Linker Flexibility. <i>Macromolecules</i> , <b>2005</b> , 38, 5897-5904	5.5	141
140	Thermal and photochemical switching of conformation of poly(ethylene glycol)-substituted cyclodextrin with an azobenzene group at the chain end. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 6396-7	16.4	137
139	Polymerizations of Cyclic Esters Catalyzed by Titanium Complexes Having Chalcogen-Bridged Chelating Diaryloxo Ligands. <i>Macromolecules</i> , <b>2002</b> , 35, 7538-7544	5.5	133
138	Cyclodextrin-Based Supramolecular Polymers. <i>Advances in Polymer Science</i> , <b>2006</b> , 1-43	1.3	121
137	Complex Formation and Gelation between Copolymers Containing Pendant Azobenzene Groups and Cyclodextrin Polymers. <i>Chemistry Letters</i> , <b>2004</b> , 33, 890-891	1.7	118
136	A metal-ion-responsive adhesive material via switching of molecular recognition properties. <i>Nature Communications</i> , <b>2014</b> , 5, 4622	17.4	111
135	Supramolecular Polymers Formed from Cyclodextrins Dimer Linked by Poly(ethylene glycol) and Guest Dimers. <i>Macromolecules</i> , <b>2005</b> , 38, 3724-3730	5.5	107
134	Solvent-Free Photoresponsive Artificial Muscles Rapidly Driven by Molecular Machines. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 17308-17315	16.4	107
133	Redox-responsive macroscopic gel assembly based on discrete dual interactions. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 3617-21	16.4	97
132	Switching of macroscopic molecular recognition selectivity using a mixed solvent system. <i>Nature Communications</i> , <b>2012</b> , 3, 831	17.4	95
131	Kinetic control of threading of cyclodextrins onto axle molecules. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 12186-7	16.4	92
130	Self-Healing Materials Formed by Cross-Linked Polyrotaxanes with Reversible Bonds. <i>Chem</i> , <b>2016</b> , 1, 766-775	16.2	90
129	Photoswitchable Supramolecular Hydrogels Formed by Cyclodextrins and Azobenzene Polymers. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 7623-7626	3.6	90
128	Highly Elastic Supramolecular Hydrogels Using Host-Guest Inclusion Complexes with Cyclodextrins. <i>Macromolecules</i> , <b>2013</b> , 46, 4575-4579	5.5	89
127	Multifunctional Stimuli-Responsive Supramolecular Materials with Stretching, Coloring, and Self-Healing Properties Functionalized via Host-Guest Interactions. <i>Macromolecules</i> , <b>2017</b> , 50, 4144-4150	5.5	82
126	Switching between supramolecular dimer and nonthreaded supramolecular self-assembly of stilbene amide- $\alpha$ -cyclodextrin by photoirradiation. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5024-5	16.4	79
125	Social self-sorting: alternating supramolecular oligomer consisting of isomers. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12339-43	16.4	75
124	pH- and Sugar-Responsive Gel Assemblies Based on Boronate-Catechol Interactions. <i>ACS Macro Letters</i> , <b>2014</b> , 3, 337-340	6.6	72

123	Bis(amido)titanium complexes having chelating diaryloxo ligands bridged by sulfur or methylene and their catalytic behaviors for ring-opening polymerization of cyclic esters. <i>Journal of Organometallic Chemistry</i> , <b>2004</b> , 689, 612-619	2.3	70
122	Adhesion between Semihard Polymer Materials Containing Cyclodextrin and Adamantane Based on Host-Guest Interactions. <i>Macromolecules</i> , <b>2015</b> , 48, 732-738	5.5	68
121	Self-Assembly of Gels through Molecular Recognition of Cyclodextrins: Shape Selectivity for Linear and Cyclic Guest Molecules. <i>Macromolecules</i> , <b>2011</b> , 44, 2395-2399	5.5	68
120	Supramolecular self-healing materials from non-covalent cross-linking host-guest interactions. <i>Chemical Communications</i> , <b>2020</b> , 56, 4381-4395	5.8	67
119	Supramolecular Materials Cross-Linked by Host-Guest Inclusion Complexes: The Effect of Side Chain Molecules on Mechanical Properties. <i>Macromolecules</i> , <b>2017</b> , 50, 3254-3261	5.5	66
118	Artificial molecular clamp: a novel device for synthetic polymerases. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 7524-8	16.4	66
117	Cyclodextrin-initiated polymerization of cyclic esters in bulk: formation of polyester-tethered cyclodextrins. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 13588-9	16.4	64
116	One-Pot Synthesis of $\beta$ -Cyclodextrin Polyrotaxane: Trap of $\beta$ -Cyclodextrin by Photodimerization of Anthracene-Capped pseudo-Polyrotaxane. <i>Macromolecules</i> , <b>2004</b> , 37, 7075-7077	5.5	62
115	Ring-opening polymerization of cyclic esters by cyclodextrins. <i>Accounts of Chemical Research</i> , <b>2008</b> , 41, 1143-52	24.3	55
114	Preparation and properties of rotaxanes formed by dimethyl-beta-cyclodextrin and oligo(thiophene)s with beta-cyclodextrin stoppers. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 459-65	4.2	55
113	Self-Healing Alkyl Acrylate-Based Supramolecular Elastomers Cross-Linked via Host-Guest Interactions. <i>Macromolecules</i> , <b>2019</b> , 52, 2659-2668	5.5	52
112	Supramolecular adhesives to hard surfaces: adhesion between host hydrogels and guest glass substrates through molecular recognition. <i>Macromolecular Rapid Communications</i> , <b>2014</b> , 35, 1646-52	4.8	51
111	Temperature-Sensitive Macroscopic Assembly Based on Molecular Recognition. <i>ACS Macro Letters</i> , <b>2012</b> , 1, 1083-1085	6.6	51
110	Construction of chemical-responsive supramolecular hydrogels from guest-modified cyclodextrins. <i>Chemistry - an Asian Journal</i> , <b>2008</b> , 3, 687-95	4.5	51
109	A molecular reel: shuttling of a rotor by tumbling of a macrocycle. <i>Journal of Organic Chemistry</i> , <b>2010</b> , 75, 1040-6	4.2	50
108	An artificial molecular chaperone: poly-pseudo-rotaxane with an extensible axle. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 14452-7	16.4	49
107	A Photoresponsive Polymeric Actuator Topologically Cross-Linked by Movable Units Based on a [2]Rotaxane. <i>Macromolecules</i> , <b>2018</b> , 51, 4688-4693	5.5	48
106	Cyclodextrin-grafted poly(phenylene ethynylene) with chemically-responsive properties. <i>Chemical Communications</i> , <b>2006</b> , 3702-4	5.8	48

105	Face-selective [2]- and [3]rotaxanes: kinetic control of the threading direction of cyclodextrins. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 7091-8	4.8	47
104	Reversible self-assembly of gels through metal-ligand interactions. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	46
103	Switching from alto-alpha-cyclodextrin dimer to pseudo[1]rotaxane dimer through tumbling. <i>Organic Letters</i> , <b>2010</b> , 12, 1284-6	6.2	46
102	Self-Healing, Expansion-Contraction, and Shape-Memory Properties of a Preorganized Supramolecular Hydrogel through Host-Guest Interactions. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9112-9115	3.6	42
101	Polymerization of Lactones Initiated by Cyclodextrins: Effects of Cyclodextrins on the Initiation and Propagation Reactions. <i>Macromolecules</i> , <b>2007</b> , 40, 3154-3158	5.5	42
100	Self-threading of a poly(ethylene glycol) chain in a cyclodextrin-ring: control of the exchange dynamics by chain length. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 8994-5	16.4	42
99	Complex Formation between Polyisoprene and Cyclodextrins. <i>Macromolecular Rapid Communications</i> , <b>2004</b> , 25, 1159-1162	4.8	41
98	Macroscopic observations of molecular recognition: discrimination of the substituted position on the naphthyl group by polyacrylamide gel modified with $\beta$ -cyclodextrin. <i>Langmuir</i> , <b>2011</b> , 27, 13790-5	4	39
97	Crystal Structure of the Complex of $\beta$ -Cyclodextrin with Bithiophene and Their Oxidative Polymerization in Water. <i>Macromolecules</i> , <b>2004</b> , 37, 3962-3964	5.5	39
96	Molecular puzzle ring: pseudo[1]rotaxane from a flexible cyclodextrin derivative. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 17062-9	16.4	38
95	Contraction of supramolecular double-threaded dimer formed by alpha-cyclodextrin with a long alkyl chain. <i>Organic Letters</i> , <b>2007</b> , 9, 1053-5	6.2	37
94	Macroscopic Self-Assembly Based on Molecular Recognition: Effect of Linkage between Aromatics and the Polyacrylamide Gel Scaffold, Amide versus Ester. <i>Macromolecules</i> , <b>2013</b> , 46, 1939-1947	5.5	36
93	Formation of supramolecular isomers; poly[2]rotaxane and supramolecular assembly. <i>Chemical Communications</i> , <b>2008</b> , 456-8	5.8	36
92	Branched supramolecular polymers formed by bifunctional cyclodextrin derivatives. <i>Tetrahedron</i> , <b>2008</b> , 64, 8355-8361	2.4	36
91	Movable Cross-Linked Polymeric Materials from Bulk Polymerization of Reactive Polyrotaxane Cross-Linker with Acrylate Monomers. <i>Macromolecules</i> , <b>2017</b> , 50, 5695-5700	5.5	35
90	Dynamic Mechano-Regulation of Myoblast Cells on Supramolecular Hydrogels Cross-Linked by Reversible Host-Guest Interactions. <i>Scientific Reports</i> , <b>2017</b> , 7, 7660	4.9	34
89	Mechanical Properties of Supramolecular Polymeric Materials Formed by Cyclodextrins as Host Molecules and Cationic Alkyl Guest Molecules on the Polymer Side Chain. <i>Macromolecules</i> , <b>2018</b> , 51, 6318-6326	5.5	31
88	Macromolecular recognition and macroscopic interactions by cyclodextrins. <i>Chemical Record</i> , <b>2013</b> , 13, 420-31	6.6	31

87	Supramolecular hydrogels formed from poly(viologen) cross-linked with cyclodextrin dimers and their physical properties. <i>Beilstein Journal of Organic Chemistry</i> , <b>2012</b> , 8, 1594-600	2.5	30
86	Relative rotational motion between alpha-Cyclodextrin Derivatives and a stiff axle molecule. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 2496-502	4.2	30
85	Single-molecule imaging of rotaxanes immobilized on glass substrates: observation of rotary movement. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 6077-9	16.4	28
84	Face selective translation of a cyclodextrin ring along an axle. <i>Chemical Communications</i> , <b>2009</b> , 5515-7	5.8	27
83	Photoresponsive formation of pseudo[2]rotaxane with cyclodextrin derivatives. <i>Organic Letters</i> , <b>2011</b> , 13, 4356-9	6.2	26
82	Selection between pinching-type and supramolecular polymer-type complexes by alpha-cyclodextrin-beta-cyclodextrin hetero-dimer and hetero-cinnamamide guest dimers. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 4878-83	4.2	26
81	Biofunctional hydrogels based on host-guest interactions. <i>Polymer Journal</i> , <b>2020</b> , 52, 839-859	2.7	25
80	Photochemically Controlled Supramolecular Curdlan/Single-Walled Carbon Nanotube Composite Gel: Preparation of Molecular Distaff by Cyclodextrin Modified Curdlan and Phase Transition Control. <i>European Journal of Organic Chemistry</i> , <b>2011</b> , 2011, 2801-2806	3.2	25
79	Self-Threading and Dethreading Dynamics of Poly(ethylene glycol)-Substituted Cyclodextrins with Different Chain Lengths. <i>Macromolecules</i> , <b>2007</b> , 40, 3256-3262	5.5	25
78	Mechanical stimulation of single cells by reversible host-guest interactions in 3D microscavolds. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	24
77	Extremely Rapid Self-Healable and Recyclable Supramolecular Materials through Planetary Ball Milling and Host-Guest Interactions. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002008	24	24
76	Ring-Opening Metathesis Polymerization by a Ru Phosphine Derivative of Cyclodextrin in Water.. <i>ACS Macro Letters</i> , <b>2013</b> , 2, 384-387	6.6	23
75	Supramolecular Polymeric Materials Containing Cyclodextrins. <i>Chemical and Pharmaceutical Bulletin</i> , <b>2017</b> , 65, 330-335	1.9	22
74	Redox-Generated Mechanical Motion of a Supramolecular Polymeric Actuator Based on Host-Guest Interactions. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 5843-5847	3.6	22
73	Selective photoinduced energy transfer from a thiophene rotaxane to acceptor. <i>Organic Letters</i> , <b>2011</b> , 13, 672-5	6.2	22
72	Complex Formation of Cyclodextrins with Various Thiophenes and their Polymerization in Water: Preparation of Poly-pseudo-rotaxanes containing Poly(thiophene)s. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2006</b> , 56, 45-53		22
71	Self-healing and shape-memory properties of polymeric materials cross-linked by hydrogen bonding and metal-ligand interactions. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 4519-4523	4.9	21
70	Macroscopic self-assembly based on complementary interactions between nucleobase pairs. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 2770-4	4.8	20

69	Double-threaded dimer and supramolecular oligomer formed by stilbene modified cyclodextrin: effect of acyl migration and photostimuli. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 492-9	4.2	20
68	Redox-Responsive Macroscopic Gel Assembly Based on Discrete Dual Interactions. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 3691-3695	3.6	19
67	Emission properties of cyclodextrin dimers linked with perylene diimide—effect of cyclodextrin tumbling. <i>Polymer Journal</i> , <b>2012</b> , 44, 278-285	2.7	19
66	Stimuli-responsive polymeric materials functioning via host-guest interactions. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2017</b> , 88, 85-104	1.7	18
65	Self-Healing Thermoplastic Polyurethane Linked via Host-Guest Interactions. <i>Polymers</i> , <b>2020</b> , 12,	4.5	17
64	Visible chiral discrimination via macroscopic selective assembly. <i>Communications Chemistry</i> , <b>2018</b> , 1,	6.3	17
63	Nanospheres with polymerization ability coated by polyrotaxane. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 1858-63	4.2	17
62	Spectroscopic study on the interaction of cyclodextrins with naphthyl groups attached to poly(acrylamide) backbone. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2006</b> , 179, 13-19	4.7	17
61	Redox-responsive supramolecular polymeric networks having double-threaded inclusion complexes. <i>Chemical Science</i> , <b>2020</b> , 11, 4322-4331	9.4	16
60	Synthesis of novel oxo complexes of tungsten and molybdenum with various chalcogen-bridged chelating bis(aryloxo) ligands and their catalytic behavior for ring-opening metathesis polymerization. <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 651, 114-123	2.3	16
59	Functioning via host-guest interactions. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2017</b> , 87, 313-330	1.7	14
58	Preparation of Supramolecular Ionic Liquid Gels Based on Host-Guest Interactions and Their Swelling and Ionic Conductive Properties. <i>Macromolecules</i> , <b>2019</b> , 52, 2932-2938	5.5	14
57	Switching of polymerization activity of cinnamoyl- $\alpha$ -cyclodextrin. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 1646-51	3.9	14
56	Inclusion Complex Formation and Hydrolysis of Lactones by Cyclodextrins. <i>Chemistry Letters</i> , <b>2003</b> , 32, 1122-1123	1.7	14
55	Supramolecular Elastomers with Movable Cross-Linkers Showing High Fracture Energy Based on Stress Dispersion. <i>Macromolecules</i> , <b>2019</b> , 52, 6953-6962	5.5	12
54	Direct covalent bond formation between materials using copper(I)-catalyzed azide alkyne cycloaddition reactions. <i>RSC Advances</i> , <b>2015</b> , 5, 56130-56135	3.7	12
53	A macroscopic reaction: direct covalent bond formation between materials using a Suzuki-Miyaura cross-coupling reaction. <i>Scientific Reports</i> , <b>2014</b> , 4, 6348	4.9	12
52	Citric Acid-Modified Cellulose-Based Tough and Self-Healable Composite Formed by Two Kinds of Noncovalent Bonding. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 2274-2283	4.3	12

51	Supramolecular Polymers Formed by Bifunctional Cyclodextrin Derivatives. <i>Chemistry Letters</i> , <b>2007</b> , 36, 828-829	1.7	12
50	Photocontrolled Size Changes of Doubly-threaded Dimer Based on an $\beta$ -Cyclodextrin Derivative with Two Recognition Sites. <i>Chemistry Letters</i> , <b>2010</b> , 39, 242-243	1.7	11
49	Stereoselective Complex Formation between Polybutadiene and Cyclodextrins in Bulk. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 910-913	4.8	11
48	Synthesis of cis-dichloride complexes of Group 6 transition metals bearing alkyne and chalcogen-bridged chelating bis(aryloxo) ligands as catalyst precursors for ring-opening metathesis polymerization. <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 654, 74-82	2.3	10
47	Syntheses of group 4 transition metal complexes bearing 2-pyridinethiolate ligands and their catalytic activities for ethylene polymerization. <i>Polymer</i> , <b>2006</b> , 47, 5762-5774	3.9	9
46	Design and mechanical properties of supramolecular polymeric materials based on host-guest interactions: the relation between relaxation time and fracture energy. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 6811-6820	4.9	9
45	Control of the threading ratio of cyclic molecules in polyrotaxanes consisting of poly(ethylene glycol) and $\beta$ -cyclodextrins. <i>Chemical Communications</i> , <b>2018</b> , 54, 7066-7069	5.8	9
44	Bulk Copolymerization of Host-Guest Monomers with Liquid-Type Acrylamide Monomers for Supramolecular Materials Applications. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 1553-1560	4.3	8
43	Direct Adhesion of Dissimilar Materials Using Sonogashira Cross-coupling Reaction. <i>Chemistry Letters</i> , <b>2016</b> , 45, 1250-1252	1.7	8
42	pH Responsive [2]Rotaxanes with 6-Modified- $\beta$ -Cyclodextrins. <i>Chemistry Letters</i> , <b>2011</b> , 40, 758-759	1.7	8
41	Mechanical Properties with Respect to Water Content of Host-Guest Hydrogels. <i>Macromolecules</i> , <b>2021</b> , 54, 8067-8076	5.5	8
40	Artificial Molecular Clamp: A Novel Device for Synthetic Polymerases. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 7666-7670	3.6	7
39	Steric isomerization of alkyne-alkyltungsten complexes with a chelating diaryloxo ligand: crystal structures of Cs- and C1-W( $\eta$ -RC <sub>2</sub> CR)[2,2'-S(4-Me-6-R <sup>2</sup> C <sub>6</sub> H <sub>2</sub> O) <sub>2</sub> ](CH <sub>2</sub> SiMe <sub>3</sub> ) <sub>2</sub> . <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 664, 234-244	2.3	7
38	Preparation of Novel Thermally Stable Polyurea by the Cationic Ring-Opening Isomerization Polymerization of Polycyclic Pseudourea. <i>Macromolecules</i> , <b>1998</b> , 31, 6822-6827	5.5	7
37	Linear viscoelastic studies on a transient network formed by host-guest interaction. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2018</b> , 56, 1109-1117	2.6	7
36	Mechanical and self-recovery properties of supramolecular ionic liquid elastomers based on host-guest interactions and correlation with ionic liquid content.. <i>RSC Advances</i> , <b>2019</b> , 9, 22295-22301	3.7	6
35	Manual control of catalytic reactions: Reactions by an apoenzyme gel and a cofactor gel. <i>Scientific Reports</i> , <b>2015</b> , 5, 16254	4.9	6
34	Polymerization of Lactones and Lactides Initiated by Cyclodextrins. <i>Kobunshi Ronbunshu</i> , <b>2007</b> , 64, 607-616		6



33	Polymer formation utilizing Crisscross Addition (crisscross addition polymerization) of acetaldehyde azine and 1,4-phenylene diisocyanate. <i>Polymer</i> , <b>2006</b> , 47, 501-505	3.9	6
32	Synthesis of a Novel Oxotungsten(VI) Complex Having a Chelating Bis(aryloxo) Ligand and Its Catalytic Behavior for Ring-Opening Metathesis Polymerization. <i>Chemistry Letters</i> , <b>2001</b> , 30, 488-489	1.7	6
31	Preparation of hydrophilic polymeric materials with movable cross-linkers and their mechanical property. <i>Polymer</i> , <b>2020</b> , 196, 122465	3.9	6
30	Adhesion of Dissimilar Materials through Host-Guest Interactions and Its Re-adhesion Properties. <i>Chemistry Letters</i> , <b>2018</b> , 47, 1255-1257	1.7	6
29	Supramolecular Polymers from a Cyclodextrin Dimer and Ditopic Guest Molecules. <i>Chemistry Letters</i> , <b>2005</b> , 34, 320-321	1.7	5
28	Mechanical properties of supramolecular polymeric materials cross-linked by donor-acceptor interactions. <i>Chemical Communications</i> , <b>2019</b> , 55, 3809-3812	5.8	4
27	Cyclodextrin-Based Supramolecular Polymers <b>2012</b> , 29-50		4
26	Supramolecular assemblies of oligothiophene derivatives bearing $\beta$ -cyclodextrin. <i>Synthetic Metals</i> , <b>2009</b> , 159, 977-981	3.6	4
25	Palladium nanoparticle loaded $\beta$ -cyclodextrin monolith as a flow reactor for concentration enrichment and conversion of pollutants based on molecular recognition. <i>Chemical Communications</i> , <b>2020</b> , 56, 14408-14411	5.8	4
24	Supramolecular Biocomposite Hydrogels Formed by Cellulose and Host-Guest Polymers Assisted by Calcium Ion Complexes. <i>Biomacromolecules</i> , <b>2020</b> , 21, 3936-3944	6.9	4
23	Radical polymerization by a supramolecular catalyst: cyclodextrin with a RAFT reagent. <i>Beilstein Journal of Organic Chemistry</i> , <b>2016</b> , 12, 2495-2502	2.5	4
22	Photocontrollable Supramolecular Materials Formed by Cyclodextrins and Azobenzene Polymers. <i>Kobunshi Ronbunshu</i> , <b>2011</b> , 68, 669-678	0	3
21	Formation of Inclusion Complexes of Poly(hexafluoropropyl ether)s with Cyclodextrins. <i>Chemistry Letters</i> , <b>2018</b> , 47, 322-325	1.7	3
20	Supramolecular Spherical $\beta$ -Cyclodextrin <sub>32</sub> -dendrimer: Inclusion Properties and Supramolecular Structure. <i>Chemistry Letters</i> , <b>2011</b> , 40, 742-743	1.7	2
19	Material Adhesion through Direct Covalent Bond Formation Assisted by Noncovalent Interactions. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 2189-2196	4.3	2
18	Mechano-Responsive Hydrogels Driven by the Dissociation of a Host-Guest Complex.. <i>ACS Macro Letters</i> , <b>2021</b> , 10, 971-977	6.6	2
17	Design of self-healing and self-restoring materials utilizing reversible and movable crosslinks. <i>NPG Asia Materials</i> , <b>2022</b> , 14,	10.3	2
16	Polyrotaxanes <b>2012</b> ,		1

15	Behavior of supramolecular cross-links formed by host-guest interactions in hydrogels responding to water contents <b>2022</b> , 1, 100001		1
14	Dynamics of the Topological Network Formed by Movable Crosslinks: Effect of Sliding Motion on Dielectric and Viscoelastic Relaxation Behavior. <i>Macromolecules</i> , <b>2021</b> , 54, 3321-3333	5.5	1
13	Cellulose Nanofiber Composite Polymeric Materials with Reversible and Movable Cross-links and Evaluation of their Mechanical Properties. <i>ACS Applied Polymer Materials</i> , <b>2022</b> , 4, 403-412	4.3	1
12	X-ray crystal structures of $\beta$ -cyclodextrin- $\beta$ -hydroxypentanoic acid, $\beta$ -cyclodextrin- $\beta$ -hydroxypentanoic acid, $\beta$ -cyclodextrin- $\epsilon$ -caprolactone, and $\beta$ -cyclodextrin- $\epsilon$ -caprolactam inclusion complexes. <i>Journal of Inclusion Phenomena and Macroscopic Chemistry</i> , <b>2020</b> , 96, 93-99	1.7	0
11	Preparation and activity of ruthenium catalyst based on $\beta$ -cyclodextrin for ring-opening metathesis polymerization. <i>Tetrahedron Letters</i> , <b>2021</b> , 63, 152712	2	0
10	State- and water repellency-controllable molecular glass of pillar[5]arenes with fluoroalkyl groups by guest vapors.. <i>Chemical Science</i> , <b>2022</b> , 13, 4082-4087	9.4	0
9	One-Step Synthesis of Gelatin-Conjugated Supramolecular Hydrogels for Dynamic Regulation of Adhesion Contact and Morphology of Myoblasts. <i>ACS Applied Polymer Materials</i> , <b>2022</b> , 4, 2595-2603	4.3	0
8	Direct Adhesion between Materials Using Noncovalent Bond and Covalent Bond. <i>Hyomen Kagaku</i> , <b>2017</b> , 38, 61-66		
7	Formation of Redox-Responsive Supramolecular Polymeric Materials Based on Host-Guest Interaction at Polymer Side Chain. <i>Kobunshi Ronbunshu</i> , <b>2015</b> , 72, 573-581	0	
6	Adhesion Using the Covalent Bond Formation Reaction at the Soft Material Interface. <i>Kobunshi Ronbunshu</i> , <b>2015</b> , 72, 590-596	0	
5	Formation of Chiral Supramolecular Polymer Based on Modified Cyclodextrin by Host-Guest Interactions. <i>Kobunshi Ronbunshu</i> , <b>2006</b> , 63, 306-314	0	
4	Direct Adhesion Between Dissimilar Materials Using Covalent Bond Formation. <i>Journal of Japan Institute of Electronics Packaging</i> , <b>2016</b> , 19, 103-110	0.1	
3	Novel Ring-Opening Polymerization <sup>^</sup> —Supramolecular Catalysts Using Cyclodextrins <sup>^</sup> —; <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , <b>2013</b> , 71, 503-514	0.2	
2	Polypropylene <b>2014</b> , 1-6		
1	Stimuli-responsive Supramolecular Gel Actuators. <i>Journal of the Japan Society for Precision Engineering</i> , <b>2014</b> , 80, 722-726	0.1	