Yoshinori Takashima

List of Publications by Year
in descending order

161 papers	13,873 citations	31902 53 h-index	20900 115 g-index
176 all docs	176 docs citations	176 times ranked	10361 citing authors

#	Article	IF	Citations
1	Redox-responsive self-healing materials formed from hostâ€“guest polymers. Nature Communications, 2011, 2, 511.	5.8	1,207
2	Polymeric Rotaxanes. Chemical Reviews, 2009, 109, 5974-6023.	23.0	837
3	Cyclodextrin-based supramolecular polymers. Chemical Society Reviews, 2009, 38, 875.	18.7	768
4	Supramolecular Polymeric Materials via Cyclodextrinâ€“Guest Interactions. Accounts of Chemical Research, 2014, 47, 2128-2140.	7.6	751
5	Macroscopic self-assembly through molecular recognition. Nature Chemistry, 2011, 3, 34-37.	6.6	710
6	Expansionâ€“contraction of photoresponsive artificial muscle regulated by hostâ€“guest interactions. Nature Communications, 2012, 3, 1270.	5.8	622
7	Preorganized Hydrogel: Selfâ€Healing Properties of Supramolecular Hydrogels Formed by Polymerization of Hostâ€“Guestâ€Monomers that Contain Cyclodextrins and Hydrophobic Guest Groups. Advanced Materials, 2013, 25, 2849-2853.	11.1	540
8	Selfâ€Healing, Expansionâ€“Contraction, and Shapeâ€Memory Properties of a Preorganized Supramolecular Hydrogel through Hostâ€“Guest Interactions. Angewandte Chemie - International Edition, 2015, 54, 8984-8987.	7.2	454
9	Photoswitchable gel assembly based on molecular recognition. Nature Communications, 2012, 3, 603.	5.8	412
10	Photoswitchable Supramolecular Hydrogels Formed by Cyclodextrins and Azobenzene Polymers. Angewandte Chemie - International Edition, 2010, 49, 7461-7464.	7.2	407
11	Fast response dry-type artificial molecular muscles with [c2]daisy chains. Nature Chemistry, 2016, 8, 625-632.	6.6	366
12	Chemically-Responsive Solâˆ’Gel Transition of Supramolecular Single-Walled Carbon Nanotubes (SWNTs) Hydrogel Made by Hybrids of SWNTs and Cyclodextrins. Journal of the American Chemical Society, 2007, 129, 4878-4879.	6.6	246
13	Highly Flexible, Tough, and Selfâ€Healing Supramolecular Polymeric Materials Using Hostâ€“Guest Interaction. Macromolecular Rapid Communications, 2016, 37, 86-92.	2.0	207
14	Redoxâ€Generated Mechanical Motion of a Supramolecular Polymeric Actuator Based on Hostâ€“Guest Interactions. Angewandte Chemie - International Edition, 2013, 52, 5731-5735.	7.2	199
15	Chiral Supramolecular Polymers Formed by Hostâˆ’Guest Interactions. Journal of the American Chemical Society, 2005, 127, 2984-2989.	6.6	196
16	A Chemical-Responsive Supramolecular Hydrogel from Modified Cyclodextrins. Angewandte Chemie - International Edition, 2007, 46, 5144-5147.	7.2	170
17	Preparation of Supramolecular Polymers from a Cyclodextrin Dimer and Ditopic Guest Molecules: Control of Structure by Linker Flexibility. Macromolecules, 2005, 38, 5897-5904.	2.2	162
18	Solvent-Free Photoresponsive Artificial Muscles Rapidly Driven by Molecular Machines. Journal of the American Chemical Society, 2018, 140, 17308-17315.	6.6	156

#	Article	IF	Citations
19	External Stimulus-Responsive Supramolecular Structures Formed by a Stilbene Cyclodextrin Dimer. Journal of the American Chemical Society, 2007, 129, 12630-12631.	6.6	148
20	Thermal and Photochemical Switching of Conformation of Poly(ethylene glycol)-Substituted Cyclodextrin with an Azobenzene Group at the Chain End. Journal of the American Chemical Society, 2007, 129, 6396-6397.	6.6	146
21	A metalâ€"ion-responsive adhesive material via switching of molecular recognition properties. Nature Communications, 2014, 5, 4622.	5.8	140
22	Polymerizations of Cyclic Esters Catalyzed by Titanium Complexes Having Chalcogen-Bridged Chelating Diaryloxo Ligands. Macromolecules, 2002, 35, 7538-7544.	2.2	135
23	Cyclodextrin-Based Supramolecular Polymers. Advances in Polymer Science, 2006, , 1-43.	0.4	125
24	Complex Formation and Gelation between Copolymers Containing Pendant Azobenzene Groups and Cyclodextrin Polymers. Chemistry Letters, 2004, 33, 890-891.	0.7	124
25	Supramolecular Polymers Formed from Î²-Cyclodextrins Dimer Linked by Poly(ethylene glycol) and Guest Dimers. Macromolecules, 2005, 38, 3724-3730.	2.2	122
26	Self-Healing Materials Formed by Cross-Linked Polyrotaxanes with Reversible Bonds. CheM, 2016, 1, 766-775.	5.8	121
27	Redoxâ€Responsive Macroscopic Gel Assembly Based on Discrete Dual Interactions. Angewandte Chemie - International Edition, 2014, 53, 3617-3621.	7.2	115
28	Supramolecular self-healing materials from non-covalent cross-linking hostâ€"guest interactions. Chemical Communications, 2020, 56, 4381-4395.	2.2	107
29	Switching of macroscopic molecular recognition selectivity using a mixed solvent system. Nature Communications, 2012, 3, 831.	5.8	104
30	Highly Elastic Supramolecular Hydrogels Using Hostâ€"Guest Inclusion Complexes with Cyclodextrins. Macromolecules, 2013, 46, 4575-4579.	2.2	102
31	Kinetic Control of Threading of Cyclodextrins onto Axle Molecules. Journal of the American Chemical Society, 2005, 127, 12186-12187.	6.6	100
32	Multifunctional Stimuli-Responsive Supramolecular Materials with Stretching, Coloring, and Self-Healing Properties Functionalized via Hostâ€"Guest Interactions. Macromolecules, 2017, 50, 4144-4150.	2.2	96
33	Photoswitchable Supramolecular Hydrogels Formed by Cyclodextrins and Azobenzene Polymers. Angewandte Chemie, 2010, 122, 7623-7626.	1.6	90
34	Social Self-Sorting: Alternating Supramolecular Oligomer Consisting of Isomers. Journal of the American Chemical Society, 2009, 131, 12339-12343.	6.6	86
35	Cyclodextrin-Initiated Polymerization of Cyclic Esters in Bulk: Formation of Polyester-Tethered Cyclodextrins. Journal of the American Chemical Society, 2004, 126, 13588-13589.	6.6	84
36	Self-Healing Alkyl Acrylate-Based Supramolecular Elastomers Cross-Linked via Hostâ€"Guest Interactions. Macromolecules, 2019, 52, 2659-2668.	2.2	83

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37	pH- and Sugar-Responsive Gel Assemblies Based on Boronateâ€"Catechol Interactions. ACS Macro Letters, 2014, 3, 337-340.	2.3	82
38	Adhesion between Semihard Polymer Materials Containing Cyclodextrin and Adamantane Based on Hostâ€"Guest Interactions. Macromolecules, 2015, 48, 732-738.	2.2	81
39	Switching between Supramolecular Dimer and Nonthreaded Supramolecular Self-Assembly of Stilbene Amide-Î±-Cyclodextrin by Photoirradiation. Journal of the American Chemical Society, 2008, 130, 5024-5025.	6.6	80
40	Self-Assembly of Gels through Molecular Recognition of Cyclodextrins: Shape Selectivity for Linear and Cyclic Guest Molecules. Macromolecules, 2011, 44, 2395-2399.	2.2	76
41	Artificial Molecular Clamp: A Novel Device for Synthetic Polymerases. Angewandte Chemie - International Edition, 2011, 50, 7524-7528.	7.2	75
42	Bis(amido)titanium complexes having chelating diaryloxo ligands bridged by sulfur or methylene and their catalytic behaviors for ring-opening polymerization of cyclic esters. Journal of Organometallic Chemistry, 2004, 689, 612-619.	0.8	72
43	Supramolecular Materials Cross-Linked by Hostâ€"Guest Inclusion Complexes: The Effect of Side Chain Molecules on Mechanical Properties. Macromolecules, 2017, 50, 3254-3261.	2.2	72
44	One-Pot Synthesis of Î³-Cyclodextrin Polyrotaxane:â€‰ Trap of Î³-Cyclodextrin by Photodimerization of Anthracene-Capped pseudo-Polyrotaxane. Macromolecules, 2004, 37, 7075-7077.	2.2	64
45	Supramolecular Adhesives to Hard Surfaces: Adhesion Between Host Hydrogels and Guest Glass Substrates Through Molecular Recognition. Macromolecular Rapid Communications, 2014, 35, 1646-1652.	2.0	64
46	Mechanical stimulation of single cells by reversible host-guest interactions in 3D microscaffolds. Science Advances, 2020, 6, .	4.7	61
47	A Photoresponsive Polymeric Actuator Topologically Cross-Linked by Movable Units Based on a [2]Rotaxane. Macromolecules, 2018, 51, 4688-4693.	2.2	60
48	Ring-Opening Polymerization of Cyclic Esters by Cyclodextrins. Accounts of Chemical Research, 2008, 41, 1143-1152.	7.6	58
49	An Artificial Molecular Chaperone:â€‰ Poly-<i>pseudo</i>-rotaxane with an Extensible Axle. Journal of the American Chemical Society, 2007, 129, 14452-14457.	6.6	57
50	Temperature-Sensitive Macroscopic Assembly Based on Molecular Recognition. ACS Macro Letters, 2012, 1, 1083-1085.	2.3	56
51	Preparation and Properties of Rotaxanes Formed by Dimethyl-Î²-cyclodextrin and Oligo(thiophene)s with Î²-Cyclodextrin Stoppers. Journal of Organic Chemistry, 2007, 72, 459-465.	1.7	55
52	A Molecular Reel: Shuttling of a Rotor by Tumbling of a Macrocycle. Journal of Organic Chemistry, 2010, 75, 1040-1046.	1.7	55
53	Face-Selective [2]- and [3]Rotaxanes: Kinetic Control of the Threading Direction of Cyclodextrins. Chemistry - A European Journal, 2007, 13, 7091-7098.	1.7	54
54	Construction of Chemicalâ€Responsive Supramolecular Hydrogels from Guestâ€Modified Cyclodextrins. Chemistry - an Asian Journal, 2008, 3, 687-695.	1.7	54

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55	Movable Cross-Linked Polymeric Materials from Bulk Polymerization of Reactive Polyrotaxane Cross-Linker with Acrylate Monomers. Macromolecules, 2017, 50, 5695-5700.	2.2	54
56	Extremely Rapid Selfâ€Healable and Recyclable Supramolecular Materials through Planetary Ball Milling and Hostâ€"Guest Interactions. Advanced Materials, 2020, 32, e2002008.	11.1	54
57	Reversible self-assembly of gels through metal-ligand interactions. Scientific Reports, 2013, 3, .	1.6	53
58	Polymerization of Lactones Initiated by Cyclodextrins:Â Effects of Cyclodextrins on the Initiation and Propagation Reactions. Macromolecules, 2007, 40, 3154-3158.	2.2	52
59	Switching from <i>altro</i>-Î±-Cyclodextrin Dimer to <i>pseudo</i>[1]Rotaxane Dimer through Tumbling. Organic Letters, 2010, 12, 1284-1286.	2.4	52
60	Cyclodextrin-grafted poly(phenylene ethynylene) with chemically-responsive properties. Chemical Communications, 2006, , 3702.	2.2	50
61	Self-Threading of a Poly(ethylene glycol) Chain in a Cyclodextrin-Ring:Â Control of the Exchange Dynamics by Chain Length. Journal of the American Chemical Society, 2006, 128, 8994-8995.	6.6	46
62	Dynamic Mechano-Regulation of Myoblast Cells on Supramolecular Hydrogels Cross-Linked by Reversible Host-Guest Interactions. Scientific Reports, 2017, 7, 7660.	1.6	46
63	Molecular Puzzle Ring: <i>pseudo</i>[1]Rotaxane from a Flexible Cyclodextrin Derivative. Journal of the American Chemical Society, 2008, 130, 17062-17069.	6.6	45
64	Biofunctional hydrogels based on hostâ€"guest interactions. Polymer Journal, 2020, 52, 839-859.	1.3	45
65	Complex Formation between Polyisoprene and Cyclodextrins. Macromolecular Rapid Communications, 2004, 25, 1159-1162.	2.0	44
66	Contraction of Supramolecular Double-Threaded Dimer Formed by Î±-Cyclodextrin with a Long Alkyl Chain. Organic Letters, 2007, 9, 1053-1055.	2.4	41
67	Macroscopic Observations of Molecular Recognition: Discrimination of the Substituted Position on the Naphthyl Group by Polyacrylamide Gel Modified with Î²-Cyclodextrin. Langmuir, 2011, 27, 13790-13795.	1.6	41
68	Crystal Structure of the Complex of Î²-Cyclodextrin with Bithiophene and Their Oxidative Polymerization in Water. Macromolecules, 2004, 37, 3962-3964.	2.2	40
69	Branched supramolecular polymers formed by bifunctional cyclodextrin derivatives. Tetrahedron, 2008, 64, 8355-8361.	1.0	40
70	Macroscopic Self-Assembly Based on Molecular Recognition: Effect of Linkage between Aromatics and the Polyacrylamide Gel Scaffold, Amide versus Ester. Macromolecules, 2013, 46, 1939-1947.	2.2	40
71	Formation of supramolecular isomers; poly[2]rotaxane and supramolecular assembly. Chemical Communications, 2008, , 456-458.	2.2	38
72	Self-Healing Thermoplastic Polyurethane Linked via Host-Guest Interactions. Polymers, 2020, 12, 1393.	2.0	35

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73	Mechanical Properties of Supramolecular Polymeric Materials Formed by Cyclodextrins as Host Molecules and Cationic Alkyl Guest Molecules on the Polymer Side Chain. Macromolecules, 2018, 51, 6318-6326.	2.2	34
74	Supramolecular Elastomers with Movable Cross-Linkers Showing High Fracture Energy Based on Stress Dispersion. Macromolecules, 2019, 52, 6953-6962.	2.2	34
75	Design of self-healing and self-restoring materials utilizing reversible and movable crosslinks. NPG Asia Materials, 2022, 14, .	3.8	33
76	Macromolecular Recognition and Macroscopic Interactions by Cyclodextrins. Chemical Record, 2013, 13, 420-431.	2.9	32
77	Relative Rotational Motion between Î±-Cyclodextrin Derivatives and a Stiff Axle Molecule. Journal of Organic Chemistry, 2008, 73, 2496-2502.	1.7	31
78	Singleâ€Molecule Imaging of Rotaxanes Immobilized on Glass Substrates: Observation of Rotary Movement. Angewandte Chemie - International Edition, 2008, 47, 6077-6079.	7.2	30
79	Supramolecular hydrogels formed from poly(viologen) cross-linked with cyclodextrin dimers and their physical properties. Beilstein Journal of Organic Chemistry, 2012, 8, 1594-1600.	1.3	30
80	Redox-responsive supramolecular polymeric networks having double-threaded inclusion complexes. Chemical Science, 2020, 11, 4322-4331.	3.7	30
81	Supramolecular Polymeric Materials Containing Cyclodextrins. Chemical and Pharmaceutical Bulletin, 2017, 65, 330-335.	0.6	29
82	Selection between Pinching-Type and Supramolecular Polymer-Type Complexes by Î±-Cyclodextrinâ^'Î²-Cyclodextrin Hetero-Dimer and Hetero-Cinnamamide Guest Dimers. Journal of Organic Chemistry, 2006, 71, 4878-4883.	1.7	28
83	Self-healing and shape-memory properties of polymeric materials cross-linked by hydrogen bonding and metalâ€“ligand interactions. Polymer Chemistry, 2019, 10, 4519-4523.	1.9	28
84	Face selective translation of a cyclodextrin ring along an axle. Chemical Communications, 2009, , 5515.	2.2	27
85	Citric Acid-Modified Cellulose-Based Tough and Self-Healable Composite Formed by Two Kinds of Noncovalent Bonding. ACS Applied Polymer Materials, 2020, 2, 2274-2283.	2.0	27
86	Mechanical Properties with Respect to Water Content of Hostâ€“Guest Hydrogels. Macromolecules, 2021, 54, 8067-8076.	2.2	27
87	Self-Threading and Dethreading Dynamics of Poly(ethylene glycol)-Substituted Cyclodextrins with Different Chain Lengths. Macromolecules, 2007, 40, 3256-3262.	2.2	26
88	Photoresponsive Formation of Pseudo[2]rotaxane with Cyclodextrin Derivatives. Organic Letters, 2011, 13, 4356-4359.	2.4	26
89	Macroscopic Selfâ€Assembly Based on Complementary Interactions between Nucleobase Pairs. Chemistry - A European Journal, 2015, 21, 2770-2774.	1.7	26
90	Photochemically Controlled Supramolecular Curdlan/Singleâ€Walled Carbon Nanotube Composite Gel: Preparation of Molecular Distaff by Cyclodextrin Modified Curdlan and Phase Transition Control. European Journal of Organic Chemistry, 2011, 2011, 2801-2806.	1.2	25

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91	Selective Photoinduced Energy Transfer from a Thiophene Rotaxane to Acceptor. Organic Letters, 2011, 13, 672-675.	2.4	24
92	Emission properties of cyclodextrin dimers linked with perylene diimideâ€"effect of cyclodextrin tumbling. Polymer Journal, 2012, 44, 278-285.	1.3	24
93	Ring-Opening Metathesis Polymerization by a Ru Phosphine Derivative of Cyclodextrin in Water. ACS Macro Letters, 2013, 2, 384-387.	2.3	24
94	Visible chiral discrimination via macroscopic selective assembly. Communications Chemistry, 2018, 1, .	2.0	23
95	Preparation of Supramolecular Ionic Liquid Gels Based on Hostâ€"Guest Interactions and Their Swelling and Ionic Conductive Properties. Macromolecules, 2019, 52, 2932-2938.	2.2	23
96	Complex Formation of Cyclodextrins with Various Thiophenes and their Polymerization in Water: Preparation of Poly-pseudo-rotaxanes containing Poly(thiophene)s. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2006, 56, 45-53.	1.6	22
97	Double-Threaded Dimer and Supramolecular Oligomer Formed by Stilbene Modified Cyclodextrin: Effect of Acyl Migration and Photostimuli. Journal of Organic Chemistry, 2011, 76, 492-499.	1.7	22
98	Functioning via hostâ€"guest interactions. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2017, 87, 313-330.	0.9	22
99	Stimuli-responsive polymeric materials functioning via hostâ€"guest interactions. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2017, 88, 85-104.	0.9	22
100	Inclusion Complex Formation and Hydrolysis of Lactones by Cyclodextrins. Chemistry Letters, 2003, 32, 1122-1123.	0.7	20
101	Preparation of hydrophilic polymeric materials with movable cross-linkers and their mechanical property. Polymer, 2020, 196, 122465.	1.8	20
102	Switching of polymerization activity of cinnamoyl-Î±-cyclodextrin. Organic and Biomolecular Chemistry, 2009, 7, 1646.	1.5	19
103	Design and mechanical properties of supramolecular polymeric materials based on hostâ€"guest interactions: the relation between relaxation time and fracture energy. Polymer Chemistry, 2020, 11, 6811-6820.	1.9	19
104	Spectroscopic study on the interaction of cyclodextrins with naphthyl groups attached to poly(acrylamide) backbone. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 179, 13-19.	2.0	18
105	Nanospheres with Polymerization Ability Coated by Polyrotaxane. Journal of Organic Chemistry, 2009, 74, 1858-1863.	1.7	18
106	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. Journal of Organometallic Chemistry, 2002, 651, 114-123.	0.8	17
107	Dynamics of the Topological Network Formed by Movable Crosslinks: Effect of Sliding Motion on Dielectric and Viscoelastic Relaxation Behavior. Macromolecules, 2021, 54, 3321-3333.	2.2	16
108	Supramolecular Polymers from a Cyclodextrin Dimer and Ditopic Guest Molecules. Chemistry Letters, 2005, 34, 320-321.	0.7	15

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109	A Macroscopic Reaction: Direct Covalent Bond Formation between Materials Using a Suzuki-Miyaura Cross-Coupling Reaction. Scientific Reports, 2014, 4, 6348.	1.6	15
110	Direct covalent bond formation between materials using copper(<scp>i</scp>)-catalyzed azide alkyne cycloaddition reactions. RSC Advances, 2015, 5, 56130-56135.	1.7	14
111	Supramolecular Biocomposite Hydrogels Formed by Cellulose and Hostâ€“Guest Polymers Assisted by Calcium Ion Complexes. Biomacromolecules, 2020, 21, 3936-3944.	2.6	14
112	Control of the threading ratio of cyclic molecules in polyrotaxanes consisting of poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	2.2	13
113	Linear viscoelastic studies on a transient network formed by hostâ€“guest interaction. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1109-1117.	2.4	13
114	Cellulose Nanofiber Composite Polymeric Materials with Reversible and Movable Cross-links and Evaluation of their Mechanical Properties. ACS Applied Polymer Materials, 2022, 4, 403-412.	2.0	13
115	Supramolecular Polymers Formed by Bifunctional Cyclodextrin Derivatives. Chemistry Letters, 2007, 36, 828-829.	0.7	12
116	Bulk Copolymerization of Hostâ€“Guest Monomers with Liquid-Type Acrylamide Monomers for Supramolecular Materials Applications. ACS Applied Polymer Materials, 2020, 2, 1553-1560.	2.0	12
117	Palladium nanoparticle loaded Î²-cyclodextrin monolith as a flow reactor for concentration enrichment and conversion of pollutants based on molecular recognition. Chemical Communications, 2020, 56, 14408-14411.	2.2	12
118	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. Journal of Organometallic Chemistry, 2002, 654, 74-82.	0.8	11
119	Stereoselective Complex Formation between Polybutadiene and Cyclodextrins in Bulk. Macromolecular Rapid Communications, 2008, 29, 910-913.	2.0	11
120	Photocontrolled Size Changes of Doubly-threaded Dimer Based on an Î±-Cyclodextrin Derivative with Two Recognition Sites. Chemistry Letters, 2010, 39, 242-243.	0.7	11
121	Mechano-Responsive Hydrogels Driven by the Dissociation of a Hostâ€“Guest Complex. ACS Macro Letters, 2021, 10, 971-977.	2.3	11
122	Direct Adhesion of Dissimilar Materials Using Sonogashira Cross-coupling Reaction. Chemistry Letters, 2016, 45, 1250-1252.	0.7	10
123	Adhesion of Dissimilar Materials through Host-Guest Interactions and Its Re-adhesion Properties. Chemistry Letters, 2018, 47, 1255-1257.	0.7	10
124	Behavior of supramolecular cross-links formed by host-guest interactions in hydrogels responding to water contents. , 2022, 1, 100001.		10
125	Preparation of dual-cross network polymers by the knitting method and evaluation of their mechanical properties. NPG Asia Materials, 2022, 14, .	3.8	10
126	Syntheses of group 4 transition metal complexes bearing 2-pyridinethiolate ligands and their catalytic activities for ethylene polymerization. Polymer, 2006, 47, 5762-5774.	1.8	9

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127	Polymerization of Lactones and Lactides Initiated by Cyclodextrins. Kobunshi Ronbunshu, 2007, 64, 607-616.	0.2	9
128	Preparation of Novel Thermally Stable Polyurea by the Cationic Ring-Opening Isomerization Polymerization of Polycyclic Pseudourea. Macromolecules, 1998, 31, 6822-6827.	2.2	8
129	Polymer formation utilizing â€˜crisscrossâ€™ addition (crisscross addition polymerization) of acetaldehyde azine and 1,4-phenylene diisocyanate. Polymer, 2006, 47, 501-505.	1.8	8
130	pH Responsive [2]Rotaxanes with 6-Modified-Î±-Cyclodextrins. Chemistry Letters, 2011, 40, 758-759.	0.7	8
131	Manual control of catalytic reactions: Reactions by an apoenzyme gel and a cofactor gel. Scientific Reports, 2015, 5, 16254.	1.6	8
132	Mechanical and self-recovery properties of supramolecular ionic liquid elastomers based on hostâ€"guest interactions and correlation with ionic liquid content. RSC Advances, 2019, 9, 22295-22301.	1.7	8
133	Fabrication and mechanical properties of knitted dissimilar polymeric materials with movable cross-links. Molecular Systems Design and Engineering, 2022, 7, 733-745.	1.7	8
134	Steric isomerization of alkyneâ€"dialkyltungsten complexes with a chelating diaryloxo ligand: crystal structures of Cs- and C1-W(Î·2-RCï˜†CR)[2,2â€²-S(4-Me-6-Râ€²C6H2O)2](CH2SiMe3)2. Journal of Organometallic Chemistry, 2002, 664, 234-244.	0.8	7
135	Radical polymerization by a supramolecular catalyst: cyclodextrin with a RAFT reagent. Beilstein Journal of Organic Chemistry, 2016, 12, 2495-2502.	1.3	7
136	Material Adhesion through Direct Covalent Bond Formation Assisted by Noncovalent Interactions. ACS Applied Polymer Materials, 2021, 3, 2189-2196.	2.0	7
137	Synthesis of a Novel Oxotungsten(VI) Complex Having a Chelating Bis(aryloxo) Ligand and Its Catalytic Behavior for Ring-Opening Metathesis Polymerization. Chemistry Letters, 2001, 30, 488-489.	0.7	6
138	Supramolecular assemblies of oligothiophene derivatives bearing Î²-cyclodextrin. Synthetic Metals, 2009, 159, 977-981.	2.1	6
139	Mechanical properties of supramolecular polymeric materials cross-linked by donorâ€"acceptor interactions. Chemical Communications, 2019, 55, 3809-3812.	2.2	6
140	Design of molecularly imprinted hydrogels with thermoresponsive drug binding sites. Journal of Materials Chemistry B, 2022, 10, 6644-6654.	2.9	6
141	State- and water repellency-controllable molecular glass of pillar[5]arenes with fluoroalkyl groups by guest vapors. Chemical Science, 2022, 13, 4082-4087.	3.7	5
142	One-Step Synthesis of Gelatin-Conjugated Supramolecular Hydrogels for Dynamic Regulation of Adhesion Contact and Morphology of Myoblasts. ACS Applied Polymer Materials, 2022, 4, 2595-2603.	2.0	5
143	Supramolecular nylon-based actuators with a high work efficiency based on hostâ€"guest complexation and the mechanoisomerization of azobenzene. Polymer Journal, 2022, 54, 1213-1223.	1.3	5
144	Photocontrollable Supramolecular Materials Formed by Cyclodextrins and Azobenzene Polymers. Kobunshi Ronbunshu, 2011, 68, 669-678.	0.2	3

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145	Formation of Inclusion Complexes of Poly(hexafluoropropyl ether)s with Cyclodextrins. Chemistry Letters, 2018, 47, 322-325.	0.7	3
146	Preparation and activity of ruthenium catalyst based on Î²-cyclodextrin for ring-opening metathesis polymerization. Tetrahedron Letters, 2021, 63, 152712.	0.7	3
147	Supramolecular Spherical Î²-Cyclodextrin32-dendrimer: Inclusion Properties and Supramolecular Structure. Chemistry Letters, 2011, 40, 742-743.	0.7	2
148	X-ray crystal structures of Î±-cyclodextrinâ€"5-hydroxypentanoic acid, Î²-cyclodextrinâ€"5-hydroxypentanoic acid, Î²-cyclodextrinâ€"Îµ-caprolactone, and Î²-cyclodextrinâ€"Îµ-caprolactam inclusion complexes. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2020, 96, 93-99.	0.9	2
149	Timeâ€"strain inseparability in multiaxial stress relaxation of supramolecular gels formed <i>via</i> hostâ€"guest interactions. Soft Matter, 0, , .	1.2	2
150	Formation of Chiral Supramolecular Polymer Based on Modified Cyclodextrin by Host-Guest Interactions. Kobunshi Ronbunshu, 2006, 63, 306-314.	0.2	0
151	Self-Healing Polymers. , 2013, , 1-6.		0
152	Formation of Redox-Responsive Supramolecular Polymeric Materials Based on Host-Guest Interaction at Polymer Side Chain. Kobunshi Ronbunshu, 2015, 72, 573-581.	0.2	0
153	Adhesion Using the Covalent Bond Formation Reaction at the Soft Material Interface. Kobunshi Ronbunshu, 2015, 72, 590-596.	0.2	0
154	Direct Adhesion between Materials Using Noncovalent Bond and Covalent Bond. Hyomen Kagaku, 2017, 38, 61-66.	0.0	0
155	Novel Ring-Opening Polymerization^|^mdash;Supramolecular Catalysts Using Cyclodextrins^|^mdash;. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2013, 71, 503-514.	0.0	0
156	Stimuli-responsive Supramolecular Gel Actuators. Journal of the Japan Society for Precision Engineering, 2014, 80, 722-726.	0.0	0
157	Supramolecular Catalysis. , 2015, , 2366-2372.		0
158	Polypropylene. , 2015, , 2043-2047.		0
159	Self-Healing Polymers. , 2015, , 2209-2214.		0
160	Direct Adhesion Between Dissimilar Materials Using Covalent Bond Formation. Journal of Japan Institute of Electronics Packaging, 2016, 19, 103-110.	0.0	0
161	Photo-stimuli responsive supramolecular materials using supramolecular machine. , 2018, , .		0