

Hiroyasu Yamaguchi

List of Publications by Year in descending order

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168
papers

11,721
citations

38720

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105
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187
all docs

187
docs citations

187
times ranked

9449
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox-responsive self-healing materials formed from host-guest polymers. <i>Nature Communications</i> , 2011, 2, 511.	5.8	1,207
2	Polymeric Rotaxanes. <i>Chemical Reviews</i> , 2009, 109, 5974-6023.	23.0	837
3	Cyclodextrin-based supramolecular polymers. <i>Chemical Society Reviews</i> , 2009, 38, 875.	18.7	768
4	Macroscopic self-assembly through molecular recognition. <i>Nature Chemistry</i> , 2011, 3, 34-37.	6.6	710
5	Expansion-contraction of photoresponsive artificial muscle regulated by host-guest interactions. <i>Nature Communications</i> , 2012, 3, 1270.	5.8	622
6	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> , 2013, 25, 2849-2853.	11.1	540
7	Photoswitchable gel assembly based on molecular recognition. <i>Nature Communications</i> , 2012, 3, 603.	5.8	412
8	Photoswitchable Supramolecular Hydrogels Formed by Cyclodextrins and Azobenzene Polymers. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7461-7464.	7.2	407
9	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> , 2007, 129, 4878-4879.	6.6	246
10	Chiral Supramolecular Polymers Formed by Host-Guest Interactions. <i>Journal of the American Chemical Society</i> , 2005, 127, 2984-2989.	6.6	196
11	A Chemical-Responsive Supramolecular Hydrogel from Modified Cyclodextrins. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5144-5147.	7.2	170
12	Preparation of Supramolecular Polymers from a Cyclodextrin Dimer and Ditopic Guest Molecules: Control of Structure by Linker Flexibility. <i>Macromolecules</i> , 2005, 38, 5897-5904.	2.2	162
13	Daisy Chain Necklace: A Tri[2]rotaxane Containing Cyclodextrins. <i>Journal of the American Chemical Society</i> , 2000, 122, 9876-9877.	6.6	160
14	Solvent-Free Photoresponsive Artificial Muscles Rapidly Driven by Molecular Machines. <i>Journal of the American Chemical Society</i> , 2018, 140, 17308-17315.	6.6	156
15	External Stimulus-Responsive Supramolecular Structures Formed by a Stilbene Cyclodextrin Dimer. <i>Journal of the American Chemical Society</i> , 2007, 129, 12630-12631.	6.6	148
16	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> , 2007, 129, 6396-6397.	6.6	146
17	A metal-ion-responsive adhesive material via switching of molecular recognition properties. <i>Nature Communications</i> , 2014, 5, 4622.	5.8	140
18	Complex Formation and Gelation between Copolymers Containing Pendant Azobenzene Groups and Cyclodextrin Polymers. <i>Chemistry Letters</i> , 2004, 33, 890-891.	0.7	124

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19	Supramolecular Polymers Formed from β -Cyclodextrins Dimer Linked by Poly(ethylene glycol) and Guest Dimers. <i>Macromolecules</i> , 2005, 38, 3724-3730.	2.2	122
20	Self-Healing Materials Formed by Cross-Linked Polyrotaxanes with Reversible Bonds. <i>CheM</i> , 2016, 1, 766-775.	5.8	121
21	Supramolecular Hemoprotein Linear Assembly by Successive Interprotein Heme-Heme Pocket Interactions. <i>Journal of the American Chemical Society</i> , 2007, 129, 10326-10327.	6.6	115
22	Supramolecular self-healing materials from non-covalent cross-linking host-guest interactions. <i>Chemical Communications</i> , 2020, 56, 4381-4395.	2.2	107
23	Switching of macroscopic molecular recognition selectivity using a mixed solvent system. <i>Nature Communications</i> , 2012, 3, 831.	5.8	104
24	Kinetic Control of Threading of Cyclodextrins onto Axle Molecules. <i>Journal of the American Chemical Society</i> , 2005, 127, 12186-12187.	6.6	100
25	A [2]Rotaxane Capped by a Cyclodextrin and a Guest: Formation of Supramolecular [2]Rotaxane Polymer. <i>Journal of the American Chemical Society</i> , 2005, 127, 2034-2035.	6.6	100
26	Multifunctional Stimuli-Responsive Supramolecular Materials with Stretching, Coloring, and Self-Healing Properties Functionalized via Host-Guest Interactions. <i>Macromolecules</i> , 2017, 50, 4144-4150.	2.2	96
27	Photoswitchable Supramolecular Hydrogels Formed by Cyclodextrins and Azobenzene Polymers. <i>Angewandte Chemie</i> , 2010, 122, 7623-7626.	1.6	90
28	Social Self-Sorting: Alternating Supramolecular Oligomer Consisting of Isomers. <i>Journal of the American Chemical Society</i> , 2009, 131, 12339-12343.	6.6	86
29	Self-Healing Alkyl Acrylate-Based Supramolecular Elastomers Cross-Linked via Host-Guest Interactions. <i>Macromolecules</i> , 2019, 52, 2659-2668.	2.2	83
30	pH- and Sugar-Responsive Gel Assemblies Based on Boronate-Catechol Interactions. <i>ACS Macro Letters</i> , 2014, 3, 337-340.	2.3	82
31	Adhesion between Semihard Polymer Materials Containing Cyclodextrin and Adamantane Based on Host-Guest Interactions. <i>Macromolecules</i> , 2015, 48, 732-738.	2.2	81
32	Switching between Supramolecular Dimer and Nonthreaded Supramolecular Self-Assembly of Stilbene Amide- β -Cyclodextrin by Photoirradiation. <i>Journal of the American Chemical Society</i> , 2008, 130, 5024-5025.	6.6	80
33	Self-Assembly of Gels through Molecular Recognition of Cyclodextrins: Shape Selectivity for Linear and Cyclic Guest Molecules. <i>Macromolecules</i> , 2011, 44, 2395-2399.	2.2	76
34	Artificial Molecular Clamp: A Novel Device for Synthetic Polymerases. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7524-7528.	7.2	75
35	Asymmetric hydrogenation with antibody-achiral rhodium complex. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 3571.	1.5	74
36	Supramolecular Materials Cross-Linked by Host-Guest Inclusion Complexes: The Effect of Side Chain Molecules on Mechanical Properties. <i>Macromolecules</i> , 2017, 50, 3254-3261.	2.2	72

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37	Self-Assembly of One- and Two-Dimensional Hemoprotein Systems by Polymerization through Heme-Heme Pocket Interactions. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1271-1274.	7.2	66
38	A Photoresponsive Polymeric Actuator Topologically Cross-Linked by Movable Units Based on a [2]Rotaxane. <i>Macromolecules</i> , 2018, 51, 4688-4693.	2.2	60
39	Ring-Opening Polymerization of Cyclic Esters by Cyclodextrins. <i>Accounts of Chemical Research</i> , 2008, 41, 1143-1152.	7.6	58
40	An Artificial Molecular Chaperone: Poly(pseudo)-rotaxane with an Extensible Axle. <i>Journal of the American Chemical Society</i> , 2007, 129, 14452-14457.	6.6	57
41	Temperature-Sensitive Macroscopic Assembly Based on Molecular Recognition. <i>ACS Macro Letters</i> , 2012, 1, 1083-1085.	2.3	56
42	Cyclodextrin-Based Rotaxanes: from Rotaxanes to Polyrotaxanes and Further to Functional Materials. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3344-3357.	1.2	56
43	Preparation and Properties of Rotaxanes Formed by Dimethyl- β -cyclodextrin and Oligo(thiophene)s with β -Cyclodextrin Stoppers. <i>Journal of Organic Chemistry</i> , 2007, 72, 459-465.	1.7	55
44	A Molecular Reel: Shuttling of a Rotor by Tumbling of a Macrocyclic. <i>Journal of Organic Chemistry</i> , 2010, 75, 1040-1046.	1.7	55
45	Face-Selective [2]- and [3]Rotaxanes: Kinetic Control of the Threading Direction of Cyclodextrins. <i>Chemistry - A European Journal</i> , 2007, 13, 7091-7098.	1.7	54
46	Construction of Chemical-Responsive Supramolecular Hydrogels from Guest-Modified Cyclodextrins. <i>Chemistry - an Asian Journal</i> , 2008, 3, 687-695.	1.7	54
47	Movable Cross-Linked Polymeric Materials from Bulk Polymerization of Reactive Polyrotaxane Cross-Linker with Acrylate Monomers. <i>Macromolecules</i> , 2017, 50, 5695-5700.	2.2	54
48	Extremely Rapid Self-Healable and Recyclable Supramolecular Materials through Planetary Ball Milling and Host-Guest Interactions. <i>Advanced Materials</i> , 2020, 32, e2002008.	11.1	54
49	Reversible self-assembly of gels through metal-ligand interactions. <i>Scientific Reports</i> , 2013, 3, .	1.6	53
50	Polymerization of Lactones Initiated by Cyclodextrins: Effects of Cyclodextrins on the Initiation and Propagation Reactions. <i>Macromolecules</i> , 2007, 40, 3154-3158.	2.2	52
51	Switching from β -Cyclodextrin Dimer to Pseudo-[1]Rotaxane Dimer through Tumbling. <i>Organic Letters</i> , 2010, 12, 1284-1286.	2.4	52
52	A chemically-controlled supramolecular protein polymer formed by a myoglobin-based self-assembly system. <i>Chemical Science</i> , 2011, 2, 1033.	3.7	52
53	Cyclodextrin-grafted poly(phenylene ethynylene) with chemically-responsive properties. <i>Chemical Communications</i> , 2006, , 3702.	2.2	50
54	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> , 2006, 128, 8994-8995.	6.6	46

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55	Molecular Puzzle Ring: <i>pseudo</i> [1]Rotaxane from a Flexible Cyclodextrin Derivative. <i>Journal of the American Chemical Society</i> , 2008, 130, 17062-17069.	6.6	45
56	Biofunctional hydrogels based on host-guest interactions. <i>Polymer Journal</i> , 2020, 52, 839-859.	1.3	45
57	Peroxidation of Pyrogallol by Antibody-Metalloporphyrin Complexes. <i>Inorganic Chemistry</i> , 1997, 36, 6099-6102.	1.9	44
58	Thermostable peroxidase activity with a recombinant antibody L chain-porphyrin Fe(III) complex. <i>FEBS Letters</i> , 1995, 375, 273-276.	1.3	41
59	Contraction of Supramolecular Double-Threaded Dimer Formed by β -Cyclodextrin with a Long Alkyl Chain. <i>Organic Letters</i> , 2007, 9, 1053-1055.	2.4	41
60	Macroscopic Observations of Molecular Recognition: Discrimination of the Substituted Position on the Naphthyl Group by Polyacrylamide Gel Modified with β -Cyclodextrin. <i>Langmuir</i> , 2011, 27, 13790-13795.	1.6	41
61	Peroxidase Activity of Cationic Metalloporphyrin-Antibody Complexes. <i>Chemistry - A European Journal</i> , 2004, 10, 6179-6186.	1.7	40
62	Branched supramolecular polymers formed by bifunctional cyclodextrin derivatives. <i>Tetrahedron</i> , 2008, 64, 8355-8361.	1.0	40
63	Macroscopic Self-Assembly Based on Molecular Recognition: Effect of Linkage between Aromatics and the Polyacrylamide Gel Scaffold, Amide versus Ester. <i>Macromolecules</i> , 2013, 46, 1939-1947.	2.2	40
64	Formation of supramolecular isomers; poly[2]rotaxane and supramolecular assembly. <i>Chemical Communications</i> , 2008, , 456-458.	2.2	38
65	Supramolecular Assembly of Porphyrins and Monoclonal Antibodies. <i>Inorganic Chemistry</i> , 1995, 34, 1070-1076.	1.9	35
66	Self-Healing Thermoplastic Polyurethane Linked via Host-Guest Interactions. <i>Polymers</i> , 2020, 12, 1393.	2.0	35
67	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> , 2018, 51, 6318-6326.	2.2	34
68	Supramolecular Elastomers with Movable Cross-Linkers Showing High Fracture Energy Based on Stress Dispersion. <i>Macromolecules</i> , 2019, 52, 6953-6962.	2.2	34
69	Control of Photoinduced Electron Transfer from Zinc-Porphyrin to Methyl Viologen by Supramolecular Formation between Monoclonal Antibody and Zinc-Porphyrin. <i>Photochemistry and Photobiology</i> , 1999, 70, 298-302.	1.3	33
70	Design of self-healing and self-restoring materials utilizing reversible and movable crosslinks. <i>NPG Asia Materials</i> , 2022, 14, .	3.8	33
71	Supramolecular Formation of Antibodies with Viologen Dimers: Utilization for Amplification of Methyl Viologen Detection Signals in Surface Plasmon Resonance Sensor. <i>Biomacromolecules</i> , 2002, 3, 1163-1169.	2.6	32
72	Relative Rotational Motion between β -Cyclodextrin Derivatives and a Stiff Axle Molecule. <i>Journal of Organic Chemistry</i> , 2008, 73, 2496-2502.	1.7	31

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73	Single-Molecule Imaging of Rotaxanes Immobilized on Glass Substrates: Observation of Rotary Movement. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6077-6079.	7.2	30
74	Supramolecular hydrogels formed from poly(viologen) cross-linked with cyclodextrin dimers and their physical properties. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 1594-1600.	1.3	30
75	Redox-responsive supramolecular polymeric networks having double-threaded inclusion complexes. <i>Chemical Science</i> , 2020, 11, 4322-4331.	3.7	30
76	Selection between Pinching-Type and Supramolecular Polymer-Type Complexes by β -Cyclodextrin- β -Cyclodextrin Hetero-Dimer and Hetero-Cinnamamide Guest Dimers. <i>Journal of Organic Chemistry</i> , 2006, 71, 4878-4883.	1.7	28
77	Self-healing and shape-memory properties of polymeric materials cross-linked by hydrogen bonding and metal-ligand interactions. <i>Polymer Chemistry</i> , 2019, 10, 4519-4523.	1.9	28
78	Supramolecular Polymers and Materials Formed by Host-Guest Interactions. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 2381-2389.	2.0	28
79	Face selective translation of a cyclodextrin ring along an axle. <i>Chemical Communications</i> , 2009, , 5515.	2.2	27
80	Cyclodextrin-Based Molecular Machines. <i>Topics in Current Chemistry</i> , 2014, 354, 71-110.	4.0	27
81	Citric Acid-Modified Cellulose-Based Tough and Self-Healable Composite Formed by Two Kinds of Noncovalent Bonding. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2274-2283.	2.0	27
82	Mechanical Properties with Respect to Water Content of Host-Guest Hydrogels. <i>Macromolecules</i> , 2021, 54, 8067-8076.	2.2	27
83	Self-Threading and Dethreading Dynamics of Poly(ethylene glycol)-Substituted Cyclodextrins with Different Chain Lengths. <i>Macromolecules</i> , 2007, 40, 3256-3262.	2.2	26
84	Photoresponsive Formation of Pseudo[2]rotaxane with Cyclodextrin Derivatives. <i>Organic Letters</i> , 2011, 13, 4356-4359.	2.4	26
85	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> , 2011, 2011, 2801-2806.	1.2	25
86	Rotaxanes with unidirectional cyclodextrin array. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S1809-S1816.	0.7	24
87	Selective Photoinduced Energy Transfer from a Thiophene Rotaxane to Acceptor. <i>Organic Letters</i> , 2011, 13, 672-675.	2.4	24
88	Emission properties of cyclodextrin dimers linked with perylene diimide effect of cyclodextrin tumbling. <i>Polymer Journal</i> , 2012, 44, 278-285.	1.3	24
89	Ring-Opening Metathesis Polymerization by a Ru Phosphine Derivative of Cyclodextrin in Water. <i>ACS Macro Letters</i> , 2013, 2, 384-387.	2.3	24
90	Visible chiral discrimination via macroscopic selective assembly. <i>Communications Chemistry</i> , 2018, 1, .	2.0	23

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91	Preparation of Supramolecular Ionic Liquid Gels Based on Host-Guest Interactions and Their Swelling and Ionic Conductive Properties. <i>Macromolecules</i> , 2019, 52, 2932-2938.	2.2	23
92	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> , 2006, 56, 45-53.	1.6	22
93	Preparation of cyclodextrin-based porous polymeric membrane by bulk polymerization of ethyl acrylate in the presence of cyclodextrin. <i>Polymer</i> , 2019, 177, 208-213.	1.8	22
94	Photoinduced Hydrogen-Evolution System with an Antibody-Porphyrin Complex as a Photosensitizer. <i>Bulletin of the Chemical Society of Japan</i> , 2009, 82, 1341-1346.	2.0	20
95	Preparation of hydrophilic polymeric materials with movable cross-linkers and their mechanical property. <i>Polymer</i> , 2020, 196, 122465.	1.8	20
96	Photoinduced Electron Transfer from a Porphyrin to an Electron Acceptor in an Antibody-Combining Site. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3829-3831.	7.2	19
97	Competitive photoinduced electron transfer by the complex formation of porphyrin with cyclodextrin bearing viologen. <i>Chemical Communications</i> , 2006, , 4212.	2.2	19
98	Switching of polymerization activity of cinnamoyl- β -cyclodextrin. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1646.	1.5	19
99	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> , 2020, 11, 6811-6820.	1.9	19
100	Spectroscopic study on the interaction of cyclodextrins with naphthyl groups attached to poly(acrylamide) backbone. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 179, 13-19.	2.0	18
101	Nanospheres with Polymerization Ability Coated by Polyrotaxane. <i>Journal of Organic Chemistry</i> , 2009, 74, 1858-1863.	1.7	18
102	Supramolecular Polymers from a Cyclodextrin Dimer and Ditopic Guest Molecules. <i>Chemistry Letters</i> , 2005, 34, 320-321.	0.7	15
103	Toward a translational molecular ratchet: face-selective translation coincident with deuteration in a pseudo-rotaxane. <i>Scientific Reports</i> , 2018, 8, 8950.	1.6	15
104	Antibody Dendrimers. <i>Topics in Current Chemistry</i> , 2003, 228, 237-258.	4.0	14
105	Synthesis of a Water-soluble Iridium(III) Complex with pH and Metal Cation Sensitive Photoluminescence. <i>Chemistry Letters</i> , 2006, 35, 720-721.	0.7	14
106	Supramolecular Biocomposite Hydrogels Formed by Cellulose and Host-Guest Polymers Assisted by Calcium Ion Complexes. <i>Biomacromolecules</i> , 2020, 21, 3936-3944.	2.6	14
107	Physical and Adhesion Properties of Supramolecular Hydrogels Cross-linked by Movable Cross-linking Molecule and Host-guest Interactions. <i>Chemistry Letters</i> , 2018, 47, 1387-1390.	0.7	13
108	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

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109	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
110	Dendritic Antibody Supramolecules: Combination of IgM and IgG. Chemistry Letters, 2003, 32, 18-19.	0.7	12
111	Supramolecular Polymers Formed by Bifunctional Cyclodextrin Derivatives. Chemistry Letters, 2007, 36, 828-829.	0.7	12
112	A palladium-catalyst stabilized in the chiral environment of a monoclonal antibody in water. Chemical Communications, 2020, 56, 1605-1607.	2.2	12
113	Bulk Copolymerization of Host-Guest Monomers with Liquid-Type Acrylamide Monomers for Supramolecular Materials Applications. ACS Applied Polymer Materials, 2020, 2, 1553-1560.	2.0	12
114	Direct Observation of DNA Catenanes by Atomic Force Microscopy. Chemistry Letters, 2000, 29, 384-385.	0.7	11
115	Amplification of Detection Signals for Methyl Viologen by Using Supramolecular Formation of Antibody with Viologen Dimer in Surface Plasmon Resonance Sensor. Chemistry Letters, 2002, 31, 382-383.	0.7	11
116	Stereoselective Complex Formation between Polybutadiene and Cyclodextrins in Bulk. Macromolecular Rapid Communications, 2008, 29, 910-913.	2.0	11
117	Photocontrolled Size Changes of Doubly-threaded Dimer Based on an α -Cyclodextrin Derivative with Two Recognition Sites. Chemistry Letters, 2010, 39, 242-243.	0.7	11
118	Synergetic improvement in the mechanical properties of polyurethanes with movable crosslinking and hydrogen bonds. Soft Matter, 2022, 18, 5027-5036.	1.2	11
119	Functionalized Antibodies as Biosensing Materials and Catalysts. Chemistry Letters, 2008, 37, 1184-1189.	0.7	10
120	Direct Adhesion of Dissimilar Materials Using Sonogashira Cross-coupling Reaction. Chemistry Letters, 2016, 45, 1250-1252.	0.7	10
121	Adhesion of Dissimilar Materials through Host-Guest Interactions and Its Re-adhesion Properties. Chemistry Letters, 2018, 47, 1255-1257.	0.7	10
122	Photoresponsive polymeric actuator cross-linked by an 8-armed polyhedral oligomeric silsesquioxane. European Polymer Journal, 2020, 134, 109806.	2.6	10
123	Behavior of supramolecular cross-links formed by host-guest interactions in hydrogels responding to water contents. , 2022, 1, 100001.		10
124	Preparation of dual-cross network polymers by the knitting method and evaluation of their mechanical properties. NPG Asia Materials, 2022, 14, .	3.8	10
125	Enhancement of Photoinduced Electron Transfer from Porphyrin to Methyl Viologen by Binding of an Antibody for Porphyrin. Chemistry Letters, 2006, 35, 1126-1127.	0.7	9
126	Polymerization of Lactones and Lactides Initiated by Cyclodextrins. Kobunshi Ronbunshu, 2007, 64, 607-616.	0.2	9

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127	Supramolecular complex formation of polysulfide polymers and cyclodextrins. <i>Chemical Communications</i> , 2020, 56, 13619-13622.	2.2	9
128	Structural Characterization of Mouse Monoclonal Antibody 13-1 against a Porphyrin Derivative: Identification of a Disulfide Bond in CDR-H3 of Mab13-1. <i>Biochemical and Biophysical Research Communications</i> , 1997, 240, 566-572.	1.0	8
129	pH Responsive [2]Rotaxanes with 6-Modified- β -Cyclodextrins. <i>Chemistry Letters</i> , 2011, 40, 758-759.	0.7	8
130	Manual control of catalytic reactions: Reactions by an apoenzyme gel and a cofactor gel. <i>Scientific Reports</i> , 2015, 5, 16254.	1.6	8
131	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> , 2019, 9, 22295-22301.	1.7	8
132	Control of microenvironment around enzymes by hydrogels. <i>Chemical Communications</i> , 2020, 56, 6723-6726.	2.2	8
133	Fabrication and mechanical properties of knitted dissimilar polymeric materials with movable cross-links. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 733-745.	1.7	8
134	Imaging Antibody Molecules at Room Temperature by Contact Mode Atomic Force Microscope. <i>Chemistry Letters</i> , 1997, 26, 1141-1142.	0.7	7
135	Preparation and properties of antibody polymers. <i>Reactive and Functional Polymers</i> , 1998, 37, 245-250.	2.0	7
136	Radical polymerization by a supramolecular catalyst: cyclodextrin with a RAFT reagent. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2495-2502.	1.3	7
137	Reinforced polystyrene through host-guest interactions using cyclodextrin as an additive. <i>European Polymer Journal</i> , 2020, 134, 109807.	2.6	7
138	Material Adhesion through Direct Covalent Bond Formation Assisted by Noncovalent Interactions. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2189-2196.	2.0	7
139	Supramolecular assemblies of oligothiophene derivatives bearing β -cyclodextrin. <i>Synthetic Metals</i> , 2009, 159, 977-981.	2.1	6
140	Mechanical properties of supramolecular polymeric materials cross-linked by donor-acceptor interactions. <i>Chemical Communications</i> , 2019, 55, 3809-3812.	2.2	6
141	Visualized Polymers. Patterns Formed by Polymeric Systems. I. Direct Observation of Supramolecular Structures of Porphyrin Dimer-Antibody Complexes by Atomic Force Microscopy. <i>Kobunshi Ronbunshu</i> , 1999, 56, 660-666.	0.2	5
142	Stellate Macroscopic Crystals from Cationic and Anionic Porphyrins. <i>Chemistry Letters</i> , 2001, 30, 778-779.	0.7	5
143	Direct Chiral Separation of Binaphthyl Derivatives Using Atroposelective Antibodies. <i>ChemistrySelect</i> , 2017, 2, 2622-2625.	0.7	5
144	Supramolecular nylon-based actuators with a high work efficiency based on host-guest complexation and the mechanoisomerization of azobenzene. <i>Polymer Journal</i> , 2022, 54, 1213-1223.	1.3	5

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145	Direct Observation of Supramolecular Structures of Biorelated Materials by Atomic Force Microscopy. Springer Series in Materials Science, 2004, , 258-272.	0.4	4
146	Ligand Exchange Strategy for Delivery of Ruthenium Complex Unit to Biomolecules Based on Ruthenium ^{II} -Olefin Specific Interactions. Chemistry Letters, 2020, 49, 1490-1493.	0.7	4
147	Supramolecular Polysulfide Polymers with Metal ^{II} -Ligand Interactions. ChemistrySelect, 2022, 7, .	0.7	4
148	Photocontrollable Supramolecular Materials Formed by Cyclodextrins and Azobenzene Polymers. Kobunshi Ronbunshu, 2011, 68, 669-678.	0.2	3
149	A pseudo-rotaxane of β -cyclodextrin and a two-station axis molecule consisting of pyridinium and decamethylene moieties, and its deuteration in deuterium oxide. Tetrahedron, 2017, 73, 4988-4993.	1.0	3
150	Visualization of Chiral Binaphthyl Recognition by Atroposelective Antibodies with Thermoresponsive Polymers. Chemistry Letters, 2017, 46, 1173-1175.	0.7	3
151	Formation of Inclusion Complexes of Poly(hexafluoropropyl ether)s with Cyclodextrins. Chemistry Letters, 2018, 47, 322-325.	0.7	3
152	Atroposelective antibodies as a designed protein scaffold for artificial metalloenzymes. Scientific Reports, 2019, 9, 13551.	1.6	3
153	Preparation and activity of ruthenium catalyst based on β -cyclodextrin for ring-opening metathesis polymerization. Tetrahedron Letters, 2021, 63, 152712.	0.7	3
154	Control of Photoinduced Electron Transfer Using Complex Formation of Water-Soluble Porphyrin and Polyvinylpyrrolidone. Polymers, 2022, 14, 1191.	2.0	3
155	<title>Supramolecular formation of porphyrins and antibodies</title>. , 1999, , .		2
156	Supramolecular Spherical β -Cyclodextrin ₃₂ -dendrimer: Inclusion Properties and Supramolecular Structure. Chemistry Letters, 2011, 40, 742-743.	0.7	2
157	Development of Atroposelective Antibodies by Immunization with a Racemic Mixture of Binaphthyl Derivatives. Bulletin of the Chemical Society of Japan, 2019, 92, 1462-1466.	2.0	2
158	X-ray crystal structures of β -cyclodextrin ^{II} -5-hydroxypentanoic acid, β -cyclodextrin ^{II} -5-hydroxypentanoic acid, β -cyclodextrin ^{II} - μ -caprolactone, and β -cyclodextrin ^{II} - μ -caprolactam inclusion complexes. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2020, 96, 93-99.	0.9	2
159	The macroscopic shape of assemblies formed from microparticles based on host ^{II} -guest interaction dependent on the guest content. Scientific Reports, 2021, 11, 6320.	1.6	2
160	<title>Direct observation of supramolecular structures of biorelated materials by atomic force microscopy</title>. , 2000, , .		1
161	Development and Characterization of a Monoclonal Antibody against Triacetone Triperoxide. Bulletin of the Chemical Society of Japan, 2013, 86, 198-202.	2.0	1
162	Photoinduced Electron Transfer from a Porphyrin to an Electron Acceptor in an Antibody-Combining Site. , 2000, 39, 3829.		1

#	ARTICLE	IF	CITATIONS
163	Amplification Effects on Detection Signals for Target Molecules by Antibody Supramolecules. Kobunshi Ronbunshu, 2004, 61, 533-540.	0.2	0
164	Formation of Chiral Supramolecular Polymer Based on Modified Cyclodextrin by Host-Guest Interactions. Kobunshi Ronbunshu, 2006, 63, 306-314.	0.2	0
165	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
166	Adhesion Using the Covalent Bond Formation Reaction at the Soft Material Interface. Kobunshi Ronbunshu, 2015, 72, 590-596.	0.2	0
167	Polyrotaxanes: Synthesis, Structure, and Chemical Properties. , 2014, , 1-7.		0
168	Sensing and Catalytic Systems with Monoclonal Antibodies . Journal of the Society of Materials Engineering for Resources of Japan, 2018, 29, 1-6.	0.2	0