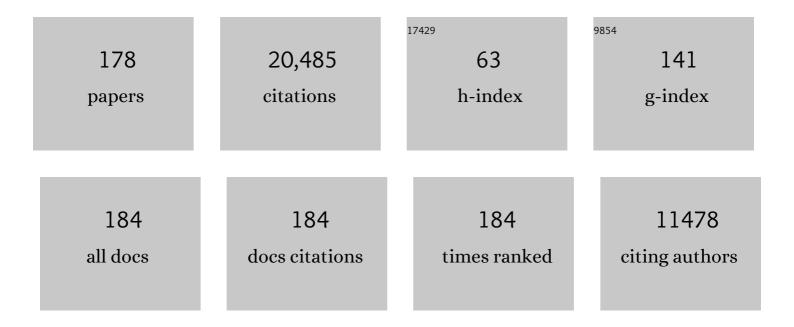
List of Publications by Year in descending order

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Δείολ Ηλόλολ

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The molecular necklace: a rotaxane containing many threaded α-cyclodextrins. Nature, 1992, 356, 325-327. | 13.7 | 1,305 |
| 2 | Redox-responsive self-healing materials formed from host–guest polymers. Nature Communications, 2011, 2, 511. | 5.8 | 1,207 |
| 3 | Complex formation between poly(ethylene glycol) and α-cyclodextrin. Macromolecules, 1990, 23, 2821-2823. | 2.2 | 875 |
| 4 | Polymeric Rotaxanes. Chemical Reviews, 2009, 109, 5974-6023. | 23.0 | 837 |
| 5 | Cyclodextrin-based supramolecular polymers. Chemical Society Reviews, 2009, 38, 875. | 18.7 | 768 |
| 6 | Supramolecular Polymeric Materials via Cyclodextrin–Guest Interactions. Accounts of Chemical Research, 2014, 47, 2128-2140. | 7.6 | 751 |
| 7 | Macroscopic self-assembly through molecular recognition. Nature Chemistry, 2011, 3, 34-37. | 6.6 | 710 |
| 8 | Expansion–contraction of photoresponsive artificial muscle regulated by host–guest interactions. Nature Communications, 2012, 3, 1270. | 5.8 | 622 |
| 9 | Synthesis of a tubular polymer from threaded cyclodextrins. Nature, 1993, 364, 516-518. | 13.7 | 612 |
| 10 | Preorganized Hydrogel: Selfâ€Healing Properties of Supramolecular Hydrogels Formed by Polymerization of Host–Guestâ€Monomers that Contain Cyclodextrins and Hydrophobic Guest Groups. Advanced Materials, 2013, 25, 2849-2853. | 11.1 | 540 |
| 11 | Preparation and properties of inclusion complexes of polyethylene glycol with .alphacyclodextrin. Macromolecules, 1993, 26, 5698-5703. | 2.2 | 466 |
| 12 | Selfâ€Healing, Expansion–Contraction, and Shapeâ€Memory Properties of a Preorganized Supramolecular Hydrogel through Host–Guest Interactions. Angewandte Chemie - International Edition, 2015, 54, 8984-8987. | 7.2 | 454 |
| 13 | Photoswitchable gel assembly based on molecular recognition. Nature Communications, 2012, 3, 603. | 5.8 | 412 |
| 14 | Photoswitchable Supramolecular Hydrogels Formed by Cyclodextrins and Azobenzene Polymers. Angewandte Chemie - International Edition, 2010, 49, 7461-7464. | 7.2 | 407 |
| 15 | Double-stranded inclusion complexes of cyclodextrin threaded on poly(ethylene glycol). Nature, 1994, 370, 126-128. | 13.7 | 383 |
| 16 | Fast response dry-type artificial molecular muscles with [c2]daisy chains. Nature Chemistry, 2016, 8, 625-632. | 6.6 | 366 |
| 17 | Preparation and Characterization of Inclusion Complexes of Poly(propylene glycol) with Cyclodextrins. Macromolecules, 1995, 28, 8406-8411. | 2.2 | 359 |
| 18 | Sol–Gel Transition during Inclusion Complex Formation between α-Cyclodextrin and High Molecular Weight Poly(ethylene glycol)s in Aqueous Solution. Polymer Journal, 1994, 26, 1019-1026. | 1.3 | 304 |

| # | Article | IF | CITATIONS |
|----|--|-------------------|-------------|
| 19 | Preparation and Characterization of a Polyrotaxane Consisting of Monodisperse Poly(ethylene) Tj ETQq1 1 0.7843 | 14 rgBT /C 6.6 | Dyerlock 10 |
| 20 | Chemical Sensors Based on Cyclodextrin Derivatives. Sensors, 2008, 8, 4961-4982. | 2.1 | 255 |
| 21 | Switchable Hydrogels Obtained by Supramolecular Cross-Linking of Adamantyl-Containing LCST Copolymers with Cyclodextrin Dimers. Angewandte Chemie - International Edition, 2006, 45, 4361-4365. | 7.2 | 247 |
| 22 | Chemically-Responsive Solâ^'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 |
| 23 | Contrast Viscosity Changes upon Photoirradiation for Mixtures of Poly(acrylic acid)-Based α-Cyclodextrin and Azobenzene Polymers. Journal of the American Chemical Society, 2006, 128, 2226-2227. | 6.6 | 237 |
| 24 | Photoresponsive Hydrogel System Using Molecular Recognition of α-Cyclodextrin. Macromolecules, 2005, 38, 5223-5227. | 2.2 | 216 |
| 25 | Highly Flexible, Tough, and Selfâ€Healing Supramolecular Polymeric Materials Using Host–Guest Interaction. Macromolecular Rapid Communications, 2016, 37, 86-92. | 2.0 | 207 |
| 26 | Complex formation between cyclodextrin and poly(propylene glycol). Journal of the Chemical Society Chemical Communications, 1990, , 1322. | 2.0 | 200 |
| 27 | Redoxâ€Generated Mechanical Motion of a Supramolecular Polymeric Actuator Based on Host–Guest Interactions. Angewandte Chemie - International Edition, 2013, 52, 5731-5735. | 7.2 | 199 |
| 28 | Daisy Chain Necklace:Â Tri[2]rotaxane Containing Cyclodextrins. Journal of the American Chemical Society, 2000, 122, 9876-9877. | 6.6 | 160 |
| 29 | Complex Formation of Poly(ε-caprolactone) with Cyclodextrins. Macromolecules, 2000, 33, 4472-4477. | 2.2 | 159 |
| 30 | Solvent-Free Photoresponsive Artificial Muscles Rapidly Driven by Molecular Machines. Journal of the American Chemical Society, 2018, 140, 17308-17315. | 6.6 | 156 |
| 31 | Preparation and characterization of polyrotaxanes containing many threaded .alphacyclodextrins. Journal of Organic Chemistry, 1993, 58, 7524-7528. | 1.7 | 154 |
| 32 | Formation of Inclusion Complexes of Monodisperse Oligo(ethylene glycol)s with .alphaCyclodextrin. Macromolecules, 1994, 27, 4538-4543. | 2.2 | 147 |
| 33 | Preparation and Characterization of Inclusion Complexes of Aliphatic Polyesters with Cyclodextrins. Macromolecules, 1997, 30, 7115-7118. | 2.2 | 147 |
| 34 | 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 |
| 35 | A metal–ion-responsive adhesive material via switching of molecular recognition properties. Nature Communications, 2014, 5, 4622. | 5.8 | 140 |
| 36 | Preparation and Characterization of Inclusion Complexes of Polyisobutylene with Cyclodextrins. Macromolecules, 1996, 29, 5611-5614. | 2.2 | 139 |

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| 37 | Cyclodextrin-Containing Polymers. 1. Preparation of Polymers. Macromolecules, 1976, 9, 701-704. | 2.2 | 129 |
| 38 | An Electric Trap:Â A New Method for Entrapping Cyclodextrin in a Rotaxane Structure. Journal of the American Chemical Society, 2000, 122, 3797-3798. | 6.6 | 124 |
| 39 | Complex formation between polyisobutylene and cyclodextrins: inversion of chain-length selectivity between .betacyclodextrin and .gammacyclodextrin. Macromolecules, 1993, 26, 5267-5268. | 2.2 | 122 |
| 40 | Redox-Responsive Hydrogel System Using the Molecular Recognition ofβ-Cyclodextrin. Macromolecular Rapid Communications, 2006, 27, 238-241. | 2.0 | 121 |
| 41 | Self-Healing Materials Formed by Cross-Linked Polyrotaxanes with Reversible Bonds. CheM, 2016, 1, 766-775. | 5.8 | 121 |
| 42 | Redoxâ€Responsive Macroscopic Gel Assembly Based on Discrete Dual Interactions. Angewandte Chemie - International Edition, 2014, 53, 3617-3621. | 7.2 | 115 |
| 43 | pH-Responsive Movement of Cucurbit[7]uril in a Diblock Polypseudorotaxane Containing Dimethyl I²-Cyclodextrin and Cucurbit[7]uril. Organic Letters, 2006, 8, 3159-3162. | 2.4 | 110 |
| 44 | Complex formation of poly(É>-caprolactone) with cyclodextrin. Macromolecular Rapid Communications, 1997, 18, 535-539. | 2.0 | 109 |
| 45 | A Cyclodextrin-Based Molecular Shuttle Containing Energetically Favored and Disfavored Portions in Its Dumbbell Component. Organic Letters, 2000, 2, 1353-1356. | 2.4 | 108 |
| 46 | Supramolecular self-healing materials from non-covalent cross-linking host–guest interactions. Chemical Communications, 2020, 56, 4381-4395. | 2.2 | 107 |
| 47 | Recognition of Alkyl Groups on a Polymer Chain by Cyclodextrins. Macromolecules, 1997, 30, 5181-5182. | 2.2 | 104 |
| 48 | Switching of macroscopic molecular recognition selectivity using a mixed solvent system. Nature Communications, 2012, 3, 831. | 5.8 | 104 |
| 49 | Highly Elastic Supramolecular Hydrogels Using Host–Guest Inclusion Complexes with Cyclodextrins. Macromolecules, 2013, 46, 4575-4579. | 2.2 | 102 |
| 50 | Kinetic Control of Threading of Cyclodextrins onto Axle Molecules. Journal of the American Chemical Society, 2005, 127, 12186-12187. | 6.6 | 100 |
| 51 | Multifunctional Stimuli-Responsive Supramolecular Materials with Stretching, Coloring, and Self-Healing Properties Functionalized via Host–Guest Interactions. Macromolecules, 2017, 50, 4144-4150. | 2.2 | 96 |
| 52 | Photoswitchable Supramolecular Hydrogels Formed by Cyclodextrins and Azobenzene Polymers. Angewandte Chemie, 2010, 122, 7623-7626. | 1.6 | 90 |
| 53 | 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 |
| 54 | Interaction of Cyclodextrin-Containing Polymers with Fluorescent Compounds. Macromolecules, 1977, 10, 676-681. | 2.2 | 83 |

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| 55 | Self-Healing Alkyl Acrylate-Based Supramolecular Elastomers Cross-Linked via Host–Guest Interactions. Macromolecules, 2019, 52, 2659-2668. | 2.2 | 83 |
| 56 | Formation of Inclusion Complexes of Oligoethylene and Its Derivatives withα-Cyclodextrin. Bulletin of the Chemical Society of Japan, 1994, 67, 2808-2818. | 2.0 | 82 |
| 57 | Adhesion between Semihard Polymer Materials Containing Cyclodextrin and Adamantane Based on Host–Guest Interactions. Macromolecules, 2015, 48, 732-738. | 2.2 | 81 |
| 58 | Switching between Supramolecular Dimer and Nonthreaded Supramolecular Self-Assembly of Stilbene Amide-α-Cyclodextrin by Photoirradiation. Journal of the American Chemical Society, 2008, 130, 5024-5025. | 6.6 | 80 |
| 59 | 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 |
| 60 | Asymmetric hydrogenation with antibody-achiral rhodium complex. Organic and Biomolecular Chemistry, 2006, 4, 3571. | 1.5 | 74 |
| 61 | Supramolecular Materials Cross-Linked by Host–Guest Inclusion Complexes: The Effect of Side Chain Molecules on Mechanical Properties. Macromolecules, 2017, 50, 3254-3261. | 2.2 | 72 |
| 62 | Complex Formation between Poly(methyl vinyl ether) and γ-Cyclodextrin. Chemistry Letters, 1993, 22, 237-240. | 0.7 | 71 |
| 63 | Construction of supramolecular structures from cyclodextrins, polymers. Carbohydrate Polymers, 1997, 34, 183-188. | 5.1 | 67 |
| 64 | pHâ€Responsive Selfâ€Assembly by Molecular Recognition on a Macroscopic Scale. Macromolecular Rapid Communications, 2013, 34, 1062-1066. | 2.0 | 65 |
| 65 | 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 |
| 66 | Recognition of polymer side chains by cyclodextrins. Polymer Chemistry, 2011, 2, 2146. | 1.9 | 62 |
| 67 | Mechanical stimulation of single cells by reversible host-guest interactions in 3D microscaffolds. Science Advances, 2020, 6, . | 4.7 | 61 |
| 68 | A Photoresponsive Polymeric Actuator Topologically Cross-Linked by Movable Units Based on a [2]Rotaxane. Macromolecules, 2018, 51, 4688-4693. | 2.2 | 60 |
| 69 | Cyclodextrin-Based Side-Chain Polyrotaxane with Unidirectional Inclusion in Aqueous Media. Angewandte Chemie - International Edition, 2006, 45, 4605-4608. | 7.2 | 57 |
| 70 | Temperature-Sensitive Macroscopic Assembly Based on Molecular Recognition. ACS Macro Letters, 2012, 1, 1083-1085. | 2.3 | 56 |
| 71 | Cyclodextrinâ€Based Rotaxanes: from Rotaxanes to Polyrotaxanes and Further to Functional Materials. European Journal of Organic Chemistry, 2019, 2019, 3344-3357. | 1.2 | 56 |
| 72 | A Molecular Reel: Shuttling of a Rotor by Tumbling of a Macrocycle. Journal of Organic Chemistry, 2010, 75, 1040-1046. | 1.7 | 55 |

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| 73 | Interaction of cyclodextrins with side chains of water soluble polymers: A simple model for biological molecular recognition and its utilization for stimuli-responsive systems. Polymer, 2006, 47, 6011-6027. | 1.8 | 54 |
| 74 | 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 |
| 75 | Movable Cross-Linked Polymeric Materials from Bulk Polymerization of Reactive Polyrotaxane Cross-Linker with Acrylate Monomers. Macromolecules, 2017, 50, 5695-5700. | 2.2 | 54 |
| 76 | Extremely Rapid Selfâ€Healable and Recyclable Supramolecular Materials through Planetary Ball Milling and Host–Guest Interactions. Advanced Materials, 2020, 32, e2002008. | 11.1 | 54 |
| 77 | Reversible self-assembly of gels through metal-ligand interactions. Scientific Reports, 2013, 3, . | 1.6 | 53 |
| 78 | Switching from <i>altro</i> -α-Cyclodextrin Dimer to <i>pseudo</i> [1]Rotaxane Dimer through Tumbling. Organic Letters, 2010, 12, 1284-1286. | 2.4 | 52 |
| 79 | Complex Formation of Cyclodextrins with Cationic Polymers. Polymer Journal, 1996, 28, 159-163. | 1.3 | 49 |
| 80 | Non-ionic [2]rotaxanes containing methylated α-cyclodextrins. Chemical Communications, 1997, , 1413-1414. | 2.2 | 48 |
| 81 | 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 |
| 82 | Dynamic Mechano-Regulation of Myoblast Cells on Supramolecular Hydrogels Cross-Linked by Reversible Host-Guest Interactions. Scientific Reports, 2017, 7, 7660. | 1.6 | 46 |
| 83 | 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 |
| 84 | Biofunctional hydrogels based on host–guest interactions. Polymer Journal, 2020, 52, 839-859. | 1.3 | 45 |
| 85 | Peroxidation of Pyrogallol by Antibodyâ^'Metalloporphyrin Complexes. Inorganic Chemistry, 1997, 36, 6099-6102. | 1.9 | 44 |
| 86 | Complex Formation between Polyisoprene and Cyclodextrins. Macromolecular Rapid Communications, 2004, 25, 1159-1162. | 2.0 | 44 |
| 87 | Complex Formation of Polybutadiene with Cyclodextrins. Macromolecular Rapid Communications, 2001, 22, 763-767. | 2.0 | 43 |
| 88 | Lightâ€Switchable Janus [2]Rotaxanes Based on αâ€Cyclodextrin Derivatives Bearing Two Recognition Sites Linked with Oligo(ethylene glycol). Chemistry - an Asian Journal, 2010, 5, 2281-2289. | 1.7 | 42 |
| 89 | Contraction of Supramolecular Double-Threaded Dimer Formed by α-Cyclodextrin with a Long Alkyl Chain. Organic Letters, 2007, 9, 1053-1055. | 2.4 | 41 |
| 90 | Macroscopic Observations of Molecular Recognition: Discrimination of the Substituted Position on the Naphthyl Group by Polyacrylamide Gel Modified with β-Cyclodextrin. Langmuir, 2011, 27, 13790-13795. | 1.6 | 41 |

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| 91 | Preparation and Characterization of Inclusion Complexes of Poly(propylene glycol) with Methylated Cyclodextrins. Journal of Physical Chemistry B, 1999, 103, 2607-2613. | 1.2 | 40 |
| 92 | Peroxidase Activity of Cationic Metalloporphyrin-Antibody Complexes. Chemistry - A European Journal, 2004, 10, 6179-6186. | 1.7 | 40 |
| 93 | Crystal Structure of the Complex of β-Cyclodextrin with Bithiophene and Their Oxidative Polymerization in Water. Macromolecules, 2004, 37, 3962-3964. | 2.2 | 40 |
| 94 | 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 |
| 95 | Preparation and Characterization of Inclusion Complexes of Poly(alkyl vinyl ether) with Cyclodextrins. Bulletin of the Chemical Society of Japan, 1998, 71, 535-542. | 2.0 | 37 |
| 96 | Formation of Side-Chain Hetero-Polypseudorotaxane Composed of α- and β-Cyclodextrins with a Water-Soluble Polymer Bearing Two Recognition Sites. Macromolecules, 2010, 43, 1706-1713. | 2.2 | 35 |
| 97 | Self-Healing Thermoplastic Polyurethane Linked via Host-Guest Interactions. Polymers, 2020, 12, 1393. | 2.0 | 35 |
| 98 | 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 |
| 99 | Supramolecular Elastomers with Movable Cross-Linkers Showing High Fracture Energy Based on Stress Dispersion. Macromolecules, 2019, 52, 6953-6962. | 2.2 | 34 |
| 100 | Design of self-healing and self-restoring materials utilizing reversible and movable crosslinks. NPG Asia Materials, 2022, 14, . | 3.8 | 33 |
| 101 | The controlled synthesis of polyglucose in one-dimensional coordination nanochannels. Chemical Communications, 2016, 52, 5156-5159. | 2.2 | 32 |
| 102 | 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 |
| 103 | Redox-responsive supramolecular polymeric networks having double-threaded inclusion complexes. Chemical Science, 2020, 11, 4322-4331. | 3.7 | 30 |
| 104 | Supramolecular Polymers Based on Cyclodextrins and Their Derivatives. Australian Journal of Chemistry, 2010, 63, 599. | 0.5 | 29 |
| 105 | Supramolecular Polymeric Materials Containing Cyclodextrins. Chemical and Pharmaceutical Bulletin, 2017, 65, 330-335. | 0.6 | 29 |
| 106 | Self-healing and shape-memory properties of polymeric materials cross-linked by hydrogen bonding and metal–ligand interactions. Polymer Chemistry, 2019, 10, 4519-4523. | 1.9 | 28 |
| 107 | Supramolecular Polymers and Materials Formed by Host-Guest Interactions. Bulletin of the Chemical Society of Japan, 2021, 94, 2381-2389. | 2.0 | 28 |
| 108 | Face selective translation of a cyclodextrin ring along an axle. Chemical Communications, 2009, , 5515. | 2.2 | 27 |

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| 109 | 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 |
| 110 | Mechanical Properties with Respect to Water Content of Host–Guest Hydrogels. Macromolecules, 2021, 54, 8067-8076. | 2.2 | 27 |
| 111 | Self-Threading and Dethreading Dynamics of Poly(ethylene glycol)-Substituted Cyclodextrins with Different Chain Lengths. Macromolecules, 2007, 40, 3256-3262. | 2.2 | 26 |
| 112 | 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 |
| 113 | Preparation of Porous Polysaccharides Templated by Coordination Polymer with Three-Dimensional Nanochannels. ACS Applied Materials & amp; Interfaces, 2017, 9, 11373-11379. | 4.0 | 25 |
| 114 | Rotaxanes with unidirectional cyclodextrin array. Journal of Physics Condensed Matter, 2006, 18, S1809-S1816. | 0.7 | 24 |
| 115 | Visible chiral discrimination via macroscopic selective assembly. Communications Chemistry, 2018, 1, . | 2.0 | 23 |
| 116 | Preparation of Supramolecular Ionic Liquid Gels Based on Host–Guest Interactions and Their Swelling and Ionic Conductive Properties. Macromolecules, 2019, 52, 2932-2938. | 2.2 | 23 |
| 117 | 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 |
| 118 | Functioning via host–guest interactions. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2017, 87, 313-330. | 0.9 | 22 |
| 119 | Preparation of cyclodextrin-based porous polymeric membrane by bulk polymerization of ethyl acrylate in the presence of cyclodextrin. Polymer, 2019, 177, 208-213. | 1.8 | 22 |
| 120 | Composite hydrogels reinforced by cellulose-based supramolecular filler. Polymer Degradation and Stability, 2020, 177, 109157. | 2.7 | 22 |
| 121 | Inclusion Complex Formation and Hydrolysis of Lactones by Cyclodextrins. Chemistry Letters, 2003, 32, 1122-1123. | 0.7 | 20 |
| 122 | Photoinduced Hydrogen-Evolution System with an Antibody–Porphyrin Complex as a Photosensitizer. Bulletin of the Chemical Society of Japan, 2009, 82, 1341-1346. | 2.0 | 20 |
| 123 | Preparation of hydrophilic polymeric materials with movable cross-linkers and their mechanical property. Polymer, 2020, 196, 122465. | 1.8 | 20 |
| 124 | Design and mechanical properties of supramolecular polymeric materials based on host–guest interactions: the relation between relaxation time and fracture energy. Polymer Chemistry, 2020, 11, 6811-6820. | 1.9 | 19 |
| 125 | Monoclonal Antibodies as Tailor-Made Hosts for Porphyrins. Chemistry Letters, 1990, 19, 917-918. | 0.7 | 18 |
| 126 | Photoregulated Switching of the Recognition Site of α yclodextrin in a Side Chain Polyrotaxane Bearing Two Recognition Sites Linked with Oligo(ethylene glycol). Macromolecular Chemistry and Physics, 2011, 212, 1032-1038. | 1.1 | 18 |

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| 127 | 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 |
| 128 | Molecular Recognition: Preparation of Polyrotaxan and Tubular Polymer from Cyclodextrin. Polymers for Advanced Technologies, 1997, 8, 241-249. | 1.6 | 15 |
| 129 | A Macroscopic Reaction: Direct Covalent Bond Formation between Materials Using a Suzuki-Miyaura Cross-Coupling Reaction. Scientific Reports, 2014, 4, 6348. | 1.6 | 15 |
| 130 | Toward a translational molecular ratchet: face-selective translation coincident with deuteration in a pseudo-rotaxane. Scientific Reports, 2018, 8, 8950. | 1.6 | 15 |
| 131 | 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 |
| 132 | Supramolecular Biocomposite Hydrogels Formed by Cellulose and Host–Guest Polymers Assisted by Calcium Ion Complexes. Biomacromolecules, 2020, 21, 3936-3944. | 2.6 | 14 |
| 133 | Physical and Adhesion Properties of Supramolecular Hydrogels Cross-linked by Movable Cross-linking Molecule and Host-guest Interactions. Chemistry Letters, 2018, 47, 1387-1390. | 0.7 | 13 |
| 134 | Control of the threading ratio of cyclic molecules in polyrotaxanes consisting of poly(ethylene) Tj ETQq0 0 0 rgB | T /Qverlock | 2 10 Tf 50 46: |
| 135 | Linear viscoelastic studies on a transient network formed by host–guest interaction. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1109-1117. | 2.4 | 13 |
| 136 | Precise synthesis of polyrotaxane and preparation of supramolecular materials based on its mobility. Polymer Journal, 2021, 53, 505-513. | 1.3 | 13 |
| 137 | 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 |
| 138 | A palladium-catalyst stabilized in the chiral environment of a monoclonal antibody in water. Chemical Communications, 2020, 56, 1605-1607. | 2.2 | 12 |
| 139 | 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 |

| 140 | Thermal ring-opening polymerization of an unsymmetrical silicon-bridged [1]ferrocenophane in coordination nanochannels. Chemical Communications, 2017, 53, 6945-6948. | 2.2 | 12 |
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| 141 | Palladium nanoparticle loaded β-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 |
| 142 | Stereoselective Complex Formation between Polybutadiene and Cyclodextrins in Bulk. Macromolecular Rapid Communications, 2008, 29, 910-913. | 2.0 | 11 |
| 143 | Mechano-Responsive Hydrogels Driven by the Dissociation of a Host–Guest Complex. ACS Macro Letters, 2021, 10, 971-977. | 2.3 | 11 |
| 144 | Synergetic improvement in the mechanical properties of polyurethanes with movable crosslinking and hydrogen bonds. Soft Matter, 2022, 18, 5027-5036. | 1.2 | 11 |

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| 145 | Functionalized Antibodies as Biosensing Materials and Catalysts. Chemistry Letters, 2008, 37, 1184-1189. | 0.7 | 10 |
| 146 | Direct Adhesion of Dissimilar Materials Using Sonogashira Cross-coupling Reaction. Chemistry Letters, 2016, 45, 1250-1252. | 0.7 | 10 |
| 147 | Adhesion of Dissimilar Materials through Host-Guest Interactions and Its Re-adhesion Properties. Chemistry Letters, 2018, 47, 1255-1257. | 0.7 | 10 |
| 148 | Photoresponsive polymeric actuator cross-linked by an 8-armed polyhedral oligomeric silsesquioxane. European Polymer Journal, 2020, 134, 109806. | 2.6 | 10 |
| 149 | Behavior of supramolecular cross-links formed by host-guest interactions in hydrogels responding to water contents. , 2022, 1, 100001. | | 10 |
| 150 | Preparation of dual-cross network polymers by the knitting method and evaluation of their mechanical properties. NPG Asia Materials, 2022, 14, . | 3.8 | 10 |
| 151 | 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 |
| 152 | Supramolecular complex formation of polysulfide polymers and cyclodextrins. Chemical Communications, 2020, 56, 13619-13622. | 2.2 | 9 |
| 153 | Heatâ€induced Supramolecular Crosslinking of Dumbbellâ€shaped PEG with βâ€CD Dimer Based on Reversible Looseâ€fit Rotaxanation. Macromolecular Chemistry and Physics, 2011, 212, 211-215. | 1.1 | 8 |
| 154 | Manual control of catalytic reactions: Reactions by an apoenzyme gel and a cofactor gel. Scientific Reports, 2015, 5, 16254. | 1.6 | 8 |
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| 156 | Control of microenvironment around enzymes by hydrogels. Chemical Communications, 2020, 56, 6723-6726. | 2.2 | 8 |
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