# Tooru Ooya

List of Publications by Year
in descending order



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|---|---|---|---|
| 168 papers | 5,991 citations | 46918 47 h-index | 85405 71 g-index |
| 172 all docs | 172 docs citations | 172 times ranked | 3668 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Biocleavable Polyrotaxaneâ^'Plasmid DNA Polyplex for Enhanced Gene Delivery. Journal of the American Chemical Society, 2006, 128, 3852-3853. | 6.6 | 260 |
| 2 | Supramolecular Design for Multivalent Interaction:Â Maltose Mobility along Polyrotaxane Enhanced Binding with Concanavalin A. Journal of the American Chemical Society, 2003, 125, 13016-13017. | 6.6 | 214 |
| 3 | Supramolecular-Structured Hydrogels Showing a Reversible Phase Transition by Inclusion Complexation between Poly(ethylene glycol) Grafted Dextran and Î±-Cyclodextrin. Macromolecules, 2001, 34, 8657-8662. | 2.2 | 204 |
| 4 | Thermally Induced Localization of Cyclodextrins in a Polyrotaxane Consisting of Î²-Cyclodextrins and Poly(ethylene glycol)â^'Poly(propylene glycol) Triblock Copolymer. Macromolecules, 1999, 32, 2534-2541. | 2.2 | 200 |
| 5 | Effects of ethylene glycol-based graft, star-shaped, and dendritic polymers on solubilization and controlled release of paclitaxel. Journal of Controlled Release, 2003, 93, 121-127. | 4.8 | 165 |
| 6 | Molecular Mobility of Interlocked Structures Exploiting New Functions of Advanced Biomaterials. Chemistry - A European Journal, 2006, 12, 6730-6737. | 1.7 | 138 |
| 7 | Polymer Inclusion Complex Consisting of Poly(Îµ-lysine) and Î±-Cyclodextrin. Macromolecules, 2001, 34, 2402-2404. | 2.2 | 126 |
| 8 | Hydrotropic Dendrimers of Generations 4 and 5:â€‰ Synthesis, Characterization, and Hydrotropic Solubilization of Paclitaxel. Bioconjugate Chemistry, 2004, 15, 1221-1229. | 1.8 | 122 |
| 9 | Supramolecular Hydrogel Formation Based on Inclusion Complexation Between Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1 | 2.1 | 116 |
| 10 | Synthesis of theophyllineâ€“polyrotaxane conjugates and their drug release via supramolecular dissociation. Journal of Controlled Release, 1999, 58, 251-269. | 4.8 | 113 |
| 11 | pH-Responsive Movement of Cucurbit[7]uril in a Diblock Polypseudorotaxane Containing Dimethyl Î²-Cyclodextrin and Cucurbit[7]uril. Organic Letters, 2006, 8, 3159-3162. | 2.4 | 110 |
| 12 | pH- and Thermosensitive Supramolecular Assembling System:Â Rapidly Responsive Properties of Î²-Cyclodextrin-Conjugated Poly(Îµ-lysine). Journal of the American Chemical Society, 2003, 125, 6350-6351. | 6.6 | 102 |
| 13 | Controllable Erosion Time and Profile in Poly(ethylene glycol) Hydrogels by Supramolecular Structure of Hydrolyzable Polyrotaxane. Biomacromolecules, 2001, 2, 204-210. | 2.6 | 101 |
| 14 | Rapid Binding of Concanavalin A and Maltoseâ^'Polyrotaxane Conjugates Due to Mobile Motion of Î±-Cyclodextrins Threaded onto a Poly(ethylene glycol). Bioconjugate Chemistry, 2005, 16, 62-69. | 1.8 | 84 |
| 15 | Synthesis of a biodegradable polymeric supramolecular assembly for drug delivery. Macromolecular Rapid Communications, 1995, 16, 259-263. | 2.0 | 81 |
| 16 | Synthesis and characterization of a polyrotaxane consisting of Î²-cyclodextrins and a poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5<br>706-713. | 1.1 | 80 |
| 17 | pH Dependence of Polypseudorotaxane Formation between Cationic Linear Polyethylenimine and Cyclodextrins. Macromolecules, 2004, 37, 6705-6710. | 2.2 | 76 |
| 18 | Preparation and Characterization of Polypseudorotaxanes Based on Biodegradable Poly(l-lactide)/Poly(ethylene glycol) Triblock Copolymers. Macromolecules, 2003, 36, 9313-9318. | 2.2 | 75 |

| # | Article | IF | Citations |
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| 19 | Effect of Biodegradable Polyrotaxanes on Platelet Activation. Bioconjugate Chemistry, 1998, 9, 118-125. | 1.8 | 74 |
| 20 | Thermally switchable polyrotaxane as a model of stimuli-responsive supramolecules for nano-scale devices. Macromolecular Rapid Communications, 1996, 17, 509-515. | 2.0 | 71 |
| 21 | Synthesis and characterization of biodegradable polyrotaxane as a novel supramolecular-structured drug carrier. Journal of Biomaterials Science, Polymer Edition, 1997, 8, 437-455. | 1.9 | 71 |
| 22 | Novel poly(ethylene glycol) scaffolds crosslinked by hydrolyzable polyrotaxane for cartilage tissue engineering. Journal of Biomedical Materials Research - Part A, 2003, 67A, 1087-1092. | 2.1 | 70 |
| 23 | Multivalent interactions between biotinâ€“polyrotaxane conjugates and streptavidin as a model of new targeting for transporters. Journal of Controlled Release, 2002, 80, 219-228. | 4.8 | 68 |
| 24 | Synthesis, Characterization, and pH-Triggered Dethreading of Î±-Cyclodextrin-Poly(ethylene glycol) Polyrotaxanes Bearing Cleavable Endcaps. Biomacromolecules, 2006, 7, 2501-2506. | 2.6 | 68 |
| 25 | Fluorescent protein recognition polymer thin films capable of selective signal transduction of target binding events prepared by molecular imprinting with a post-imprinting treatment. Biosensors and Bioelectronics, 2010, 26, 458-462. | 5.3 | 67 |
| 26 | Fluorescent protein-imprinted polymers capable of signal transduction of specific binding events prepared by a site-directed two-step post-imprinting modification. Chemical Communications, 2014, 50, 1347-1349. | 2.2 | 66 |
| 27 | Supramolecular dissociation of biodegradable polyrotaxanes by enzymatic terminal hydrolysis. Macromolecular Chemistry and Physics, 1998, 199, 2311-2320. | 1.1 | 65 |
| 28 | Rapid induction of thermoreversible hydrogel formation based on poly(propylene glycol)-grafted dextran inclusion complexes. Macromolecular Bioscience, 2002, 2, 298-303. | 2.1 | 65 |
| 29 | Supramolecular control of polyplex dissociation and cell transfection: Efficacy of amino groups and threading cyclodextrins in biocleavable polyrotaxanes. Journal of Controlled Release, 2008, 131, 137-144. | 4.8 | 64 |
| 30 | Block-Selective Polypseudorotaxane Formation in PEI-b-PEG-b-PEI Copolymers via pH Variation. Macromolecules, 2004, 37, 7464-7468. | 2.2 | 63 |
| 31 | Conjugatedâ€Protein Mimics with Molecularly Imprinted Reconstructible and Transformable Regions that are Assembled Using Spaceâ€Filling Prosthetic Groups. Angewandte Chemie - International Edition, 2014, 53, 12765-12770. | 7.2 | 62 |
| 32 | Hyaluronic acid grafted with poly(ethylene glycol) as a novel peptide formulation. Journal of Controlled Release, 1999, 59, 77-86. | 4.8 | 61 |
| 33 | pH Dependence of Inclusion Complexation between Cationic Poly(Îµ-lysine) and Î±-Cyclodextrin. Macromolecules, 2002, 35, 3775-3777. | 2.2 | 60 |
| 34 | Synthesis of a biocleavable polyrotaxane-plasmid DNA (pDNA) polyplex and its use for the rapid nonviral delivery of pDNA to cell nuclei. Nature Protocols, 2006, 1, 2861-2869. | 5.5 | 59 |
| 35 | Fluorescent molecularly imprinted polymer thin films for specific protein detection prepared with dansyl ethylenediamine-conjugated O-acryloyl l-hydroxyproline. Biosensors and Bioelectronics, 2013, 48, 113-119. | 5.3 | 59 |
| 36 | Molecularly imprinted polymers prepared using protein-conjugated cleavable monomers followed by site-specific post-imprinting introduction of fluorescent reporter molecules. Chemical Communications, 2013, 49, 8450. | 2.2 | 58 |

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|---|---|---|---|
| 37 | Control of Rapid Phase Transition Induced by Supramolecular Complexation of Î²-Cyclodextrin-Conjugated Poly(Îµ-lysine) with a Specific Guest. Macromolecules, 2003, 36, 5342-5347. | 2.2 | 57 |
| 38 | Synthesis and characterization of dextran grafted with poly(N-isopropylacrylamide-co-N,N-dimethyl-acrylamide). Macromolecular Chemistry and Physics, 2000, 201, 613-619. | 1.1 | 55 |
| 39 | Synthesis and characterization of an oligopeptide - terminated polyrotaxane as a drug carrier. Polymers for Advanced Technologies, 2000, 11, 642-651. | 1.6 | 55 |
| 40 | Anticoagulant activity of sulfonated polyrotaxanes as blood-compatible materials. Journal of Biomedical Materials Research Part B, 2002, 60, 186-190. | 3.0 | 54 |
| 41 | Carboxyethylester-polyrotaxanes as a new calcium chelating polymer: synthesis, calcium binding and mechanism of trypsin inhibition. International Journal of Pharmaceutics, 2002, 242, 47-54. | 2.6 | 54 |
| 42 | Synthesis of Poly(É›-lysine)-Grafted Dextrans and Their pH- and Thermosensitive Hydrogelation with Cyclodextrins. ChemPhysChem, 2005, 6, 1081-1086. | 1.0 | 52 |
| 43 | Polyrotaxanes: Synthesis, Structure, and Potential in Drug Delivery. Critical Reviews in Therapeutic Drug Carrier Systems, 1999, 16, 289-330. | 1.2 | 52 |
| 44 | Precisely controlled molecular imprinting of glutathione-s-transferase by orientated template immobilization using specific interaction with an anchored ligand on a gold substrate. Polymer Chemistry, 2014, 5, 4764-4771. | 1.9 | 50 |
| 45 | Preparation ofÎ±-Cyclodextrin-Terminated Polyrotaxane Consisting ofÎ²-Cyclodextrins and Pluronic as a Building Block of a Biodegradable Network. Macromolecular Bioscience, 2005, 5, 379-383. | 2.1 | 49 |
| 46 | Inhibitory Effect of Supramolecular Polyrotaxaneâ^'Dipeptide Conjugates on Digested Peptide Uptake via Intestinal Human Peptide Transporter. Bioconjugate Chemistry, 2002, 13, 582-587. | 1.8 | 48 |
| 47 | Supramolecular network formation through inclusion complexation of an Î±-cyclodextrin-based molecular tube. Macromolecular Rapid Communications, 2000, 21, 1257-1262. | 2.0 | 47 |
| 48 | Enhanced Accessibility of Peptide Substrate toward Membrane-Bound Metalloexopeptidase by Supramolecular Structure of Polyrotaxane. Biomacromolecules, 2001, 2, 200-203. | 2.6 | 47 |
| 49 | Highly selective bisphenol Aâ€"imprinted polymers prepared by atom transfer radical polymerization. Polymer Chemistry, 2010, 1, 1684. | 1.9 | 47 |
| 50 | Thermodynamic Analysis of Inclusion Complexation between Î±-Cyclodextrin-Based Molecular Tube and Sodium Alkyl Sulfonate. Langmuir, 2001, 17, 234-238. | 1.6 | 43 |
| 51 | Modulatory Factors on Temperature-Synchronized Degradation of Dextran Grafted with Thermoresponsive Polymers and Their Hydrogels. Biomacromolecules, 2001, 2, 874-879. | 2.6 | 43 |
| 52 | Fibroblast adhesion and proliferation on poly(ethylene glycol) hydrogels crosslinked by hydrolyzable polyrotaxane. Biomaterials, 2002, 23, 4041-4048. | 5.7 | 43 |
| 53 | Improved Cell Viability of Linear Polyethylenimine through Î³-Cyclodextrin Inclusion for Effective Gene Delivery. ChemBioChem, 2006, 7, 297-302. | 1.3 | 42 |
| 54 | Controlling the mechanism of trypsin inhibition by the numbers of Î±-cyclodextrins and carboxyl groups in carboxyethylester-polyrotaxanes. Journal of Controlled Release, 2004, 96, 301-307. | 4.8 | 41 |

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| 55 | Label-free detection of C-reactive protein using reflectometric interference spectroscopy-based sensing system. Analytica Chimica Acta, 2012, 728, 64-68. | 2.6 | 40 |
| 56 | Effect of acetylation of biodegradable polyrotaxanes on its supramolecular dissociation via terminal ester hydrolysis. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 1275-1288. | 1.9 | 38 |
| 57 | Modulating Rheological Properties of Supramolecular Networks by pH-Responsive Double-Axle Intrusion into Î³-Cyclodextrin. Advanced Materials, 2007, 19, 396-400. | 11.1 | 38 |
| 58 | Preparation and Characterization of a Polyrotaxane with Non-enzymatically Hydrolyzable Stoppers. Chemistry Letters, 1998, 27, 1031-1032. | 0.7 | 37 |
| 59 | Preparation and characterization of poly(ethylene glycol) hydrogels cross-linked by hydrolyzable polyrotaxane. Journal of Biomaterials Science, Polymer Edition, 2000, 11, 1333-1345. | 1.9 | 37 |
| 60 | One-Pot Synthesis of a Polyrotaxane via Selective Threading of a PEI-b-PEG-b-PEI Copolymer. Macromolecular Bioscience, 2006, 6, 420-424. | 2.1 | 37 |
| 61 | Molecular â€œScrew and Nutâ€•â€‰ Î±-Cyclodextrin Recognizes Polylactide Chirality. Macromolecules, 2007, 40, 6441-6444. | 2.2 | 37 |
| 62 | Regulation of pseudo-Polyrotaxane Formation between Î±-Cyclodextrins and Azobenzene-Terminated Poly(ethylene glycol). Polymer Journal, 1999, 31, 658-663. | 1.3 | 36 |
| 63 | Synthesis of Î±-Cyclodextrin-Conjugated Poly(É›-lysine)s and Their Inclusion Complexation Behavior. Macromolecular Rapid Communications, 2002, 23, 179-182. | 2.0 | 36 |
| 64 | Molecularly imprinted protein recognition thin films constructed by controlled/living radical polymerization. Journal of Bioscience and Bioengineering, 2015, 119, 200-205. | 1.1 | 36 |
| 65 | Thermodynamic Analysis of Inclusion Complexation between Î±-Cyclodextrin-Based Molecular Tube and Poly(ethylene oxide)-block-poly(tetrahydrofuran)-block-poly(ethylene oxide) Triblock Copolymer. Journal of Physical Chemistry B, 2003, 107, 14-19. | 1.2 | 35 |
| 66 | Study on the Solution Properties of Thermo-Responsive Polyrotaxanes with Different Numbers of Cyclic Molecules. Macromolecular Chemistry and Physics, 2001, 202, 1338-1344. | 1.1 | 30 |
| 67 | Self-assembly of cholesterol-hydrotropic dendrimer conjugates into micelle-like structure: Preparation and hydrotropic solubilization of paclitaxel. Science and Technology of Advanced Materials, 2005, 6, 452-456. | 2.8 | 29 |
| 68 | Cationic hydrogels of PEG crosslinked by a hydrolyzable polyrotaxane for cartilage regeneration. Reactive and Functional Polymers, 2007, 67, 1408-1417. | 2.0 | 29 |
| 69 | Temperature- and pH-Controlled Hydrogelation of Poly(ethylene glycol)-Grafted Hyaluronic Acid by Inclusion Complexation with Î±-Cyclodextrin. Polymer Journal, 2004, 36, 338-344. | 1.3 | 27 |
| 70 | Fabrication of Carboxylated Silicon Nitride Sensor Chips for Detection of Antigenâ€“Antibody Reaction Using Microfluidic Reflectometric Interference Spectroscopy. Langmuir, 2012, 28, 13609-13615. | 1.6 | 27 |
| 71 | Thermally-Responsive Properties of a Polyrotaxane Consisting of Î²-Cyclodextrins and a Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Ove | 1.3 | 26 |
| 72 | Supraparticles comprised of molecularly imprinted nanoparticles and modified gold nanoparticles as a nanosensor platform. RSC Advances, 2013, 3, 25306. | 1.7 | 26 |

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| 73 | Feasibility study of hydrolyzable polyrotaxanes aiming at implantable materials. Journal of Artificial Organs, 2000, 3, 136-142. | 0.4 | 25 |
| 74 | Enzymatic Degradation of Semi-IPN Hydrogels Based on N-Isopropylacrylamide and Dextran at a Specific Temperature Range. Macromolecular Rapid Communications, 2002, 23, 407. | 2.0 | 25 |
| 75 | Spontaneous Change of Physical State from Hydrogels to Crystalline Precipitates during Poly-pseudorotaxane Formation. ChemPhysChem, 2004, 5, 1431-1434. | 1.0 | 25 |
| 76 | Dextran Hydrogels Containing Poly(N-isopropylacrylamide) as Grafts and Cross-Linkers Exhibiting Enzymatic Regulation in a Specific Temperature Range. Macromolecular Rapid Communications, 2004, 25, 867-872. | 2.0 | 25 |
| 77 | Protein imprinted TiO2-coated quantum dots for fluorescent protein sensing prepared by liquid phase deposition. Soft Matter, 2011, 7, 9681. | 1.2 | 25 |
| 78 | Effects of polyrotaxane structure on polyion complexation with DNA. Science and Technology of Advanced Materials, 2004, 5, 363-369. | 2.8 | 24 |
| 79 | Effect of the Mobility of Ligands in Polyrotaxanes on Order Structure of Water Clusters. Langmuir, 2004, 20, 2852-2854. | 1.6 | 24 |
| 80 | New Synthetic Route for Dextran Graft Copolymers Containing Thermo-Responsive Polymers. Polymer Journal, 2001, 33, 108-111. | 1.3 | 23 |
| 81 | Sunflower-Shaped Cyclodextrin-Conjugated Poly(Îµ-Lysine) Polyplex as a Controlled Intracellular Trafficking Device. ChemBioChem, 2005, 6, 1986-1990. | 1.3 | 23 |
| 82 | Surface modification of polyurethane using sulfonated PEG crafted polyrotaxane for improved biocompatibility. Macromolecular Research, 2006, 14, 73-80. | 1.0 | 23 |
| 83 | Hydrophilic molecularly imprinted polymers for bisphenol A prepared in aqueous solution. Mikrochimica Acta, 2013, 180, 1387-1392. | 2.5 | 23 |
| 84 | In vitro biocompatibility assessment of sulfonated polyrotaxane-immobilized polyurethane surfaces. Journal of Biomedical Materials Research Part B, 2003, 66A, 596-604. | 3.0 | 22 |
| 85 | Novel biodegradable cholesterol-modified polyrotaxane hydrogels for cartilage regeneration. Journal of Biomaterials Science, Polymer Edition, 2004, 15, 1389-1404. | 1.9 | 20 |
| 86 | Anticoagulant supramolecular-structured polymers: Synthesis and anti coagulant activity of taurine-conjugated carboxyethylester-polyrotaxanes. Science and Technology of Advanced Materials, 2005, 6, 484-490. | 2.8 | 20 |
| 87 | Dummy Template-Imprinted Polymers for Bisphenol A Prepared Using a Schiff Base-Type Template Molecule with Post-Imprinting Oxidation. Analytical Letters, 2012, 45, 1204-1213. | 1.0 | 20 |
| 88 | Inclusion complexation of fractionated ?-cyclodextrin molecular tube with sodium dodecyl sulfate. Polymers for Advanced Technologies, 2000, 11, 830-836. | 1.6 | 19 |
| 89 | Synthesis of polyrotaxane-biotin conjugates and surface plasmon resonance analysis of streptavidin recognition. Biotechnology and Bioprocess Engineering, 2001, 6, 293-300. | 1.4 | 19 |
| 90 | pH-Sensitive Locomotion of Cyclodextrins in a Blockâ€“Selective Mobile Polyrotaxane. ChemPhysChem, 2006, 7, 1671-1673. | 1.0 | 19 |

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| 91 | <sup>19</sup>F-NMR, <sup>1</sup>H-NMR, and Fluorescence Studies of Interaction between 5-Fluorouracil and Polyglycerol Dendrimers. Journal of Physical Chemistry B, 2012, 116, 12263-12267. | 1.2 | 18 |
| 92 | Interaction of supramolecular assembly with hairless rat stratum corneum. Journal of Controlled Release, 1997, 44, 295-299. | 4.8 | 17 |
| 93 | pH-Triggered Assembling System Using Cooperative Binding between Cyclodextrin-Conjugated Poly(Îµ-lysine)s and Anionic Guest in Aqueous Media. Journal of Physical Chemistry B, 2004, 108, 7646-7650. | 1.2 | 17 |
| 94 | Label-free detection of glycoproteins using reflectometric interference spectroscopy-based sensing system with upright episcopic illumination. Analytical Methods, 2011, 3, 1366. | 1.3 | 17 |
| 95 | An injectable and self-healing hydrogel for spatiotemporal protein release via fragmentation after passing through needles. Journal of Biomaterials Science, Polymer Edition, 2018, 29, 145-159. | 1.9 | 17 |
| 96 | Hydrophobic Nature of Methacrylate-POSS in Combination with 2-(Methacryloyloxy)ethyl Phosphorylcholine for Enhanced Solubility and Controlled Release of Paclitaxel. Langmuir, 2019, 35, 1404-1412. | 1.6 | 17 |
| 97 | Pulsatile peptide release from multi-layered hydrogel formulations consisting of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1 1251-1264. | 1.9 | 16 |
| 98 | Preparation of porous hydrolyzable polyrotaxane hydrogels and their erosion behavior. Journal of Biomaterials Science, Polymer Edition, 2003, 14, 567-579. | 1.9 | 16 |
| 99 | Cellâ€Encapsulating Hydrogel Puzzle: Polyrotaxaneâ€Based Selfâ€Healing Hydrogels. Chemistry - A European Journal, 2020, 26, 913-920. | 1.7 | 16 |
| 100 | Supramolecular Control of Ester Hydrolysis in Poly(ethylene glycol)-Interlocked Hydrogels. Macromolecular Bioscience, 2003, 3, 373-380. | 2.1 | 15 |
| 101 | Sulfonated poly(ethylene glycol) containing methacrylate copolymer surfaces; preparation, characterization andin vitro biocompatibility. Macromolecular Research, 2004, 12, 342-351. | 1.0 | 15 |
| 102 | Poly(ethylene glycol) hydrogels cross-linked by hydrolyzable polyrotaxane containing hydroxyapatite particles as scaffolds for bone regeneration. Journal of Biomaterials Science, Polymer Edition, 2005, 16, 1611-1621. | 1.9 | 15 |
| 103 | Temperature-controlled erosion of poly(N-isopropylacrylamide)-based hydrogels crosslinked by methacrylate-introduced hydrolyzable polyrotaxane. Science and Technology of Advanced Materials, 2005, 6, 447-451. | 2.8 | 14 |
| 104 | Microfluidic reflectometric interference spectroscopy-based sensing for exploration of proteinâ€“protein interaction conditions. Biosensors and Bioelectronics, 2013, 40, 247-251. | 5.3 | 14 |
| 105 | Reflectometric interference spectroscopy-based immunosensing using immobilized antibody via His-tagged recombinant protein A. Journal of Bioscience and Bioengineering, 2015, 119, 195-199. | 1.1 | 13 |
| 106 | Structural Role of Guest Molecules in Rapid and Sensitive Supramolecular Assembling System Based on Î²-Cyclodextrin-Conjugated Poly(Îµ-lysine). Macromolecules, 2004, 37, 10036-10041. | 2.2 | 12 |
| 107 | Simple immobilization of antibody in organic/inorganic hybrid thin films for immunosensing. Biosensors and Bioelectronics, 2013, 43, 45-49. | 5.3 | 12 |
| 108 | Conjugatedâ€Protein Mimics with Molecularly Imprinted Reconstructible and Transformable Regions that are Assembled Using Spaceâ€Filling Prosthetic Groups. Angewandte Chemie, 2014, 126, 12979-12984. | 1.6 | 12 |

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| 109 | Gelation Rate Modulation of anÎ±-Cyclodextrin and Poly(ethylene glycol)-Grafted Hyaluronic Acid Solution System by Inclusion Complexation of a Microphase-Separated Structure. Macromolecular Rapid Communications, 2004, 25, 739-742. | 2.0 | 11 |
| 110 | Molecularly Imprinted Microspheres for Bisphenol A Prepared Using a Microfluidic Device. Analytical Sciences, 2012, 28, 457-461. | 0.8 | 11 |
| 111 | Enhanced solubilization of Î±-tocopherol by hyperbranched polyglycerol-modified Î²-cyclodextin. Journal of Drug Delivery Science and Technology, 2016, 35, 30-33. | 1.4 | 11 |
| 112 | Controlled Micelle Formation and Stable Capture of Hydrophobic Drug by Alkylated POSS Methacrylate Block Copolymers. ACS Applied Polymer Materials, 2019, 1, 2108-2119. | 2.0 | 11 |
| 113 | Tuned cell attachments by double-network hydrogels consisting of glycol chitosan, carboxylmethyl cellulose and agar bearing robust and self-healing properties. International Journal of Biological Macromolecules, 2019, 134, 262-268. | 3.6 | 11 |
| 114 | Design of polyrotaxanes as supramolecular conjugates for cells and tissues. Journal of Artificial Organs, 2004, 7, 62-8. | 0.4 | 9 |
| 115 | Providing Natural Water Structure Surrounding Highly Mobile Maltose Groups Conjugated with Polyrotaxanes. Polymer Journal, 2006, 38, 1093-1097. | 1.3 | 9 |
| 116 | Regulation of intracellular metabolism by biodegradable polyrotaxanes. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 313-326. | 1.9 | 8 |
| 117 | Dendritic nanospace constructed by only glycerol units enhanced uptake of a fluorescent molecule in aqueous solution. Chemical Communications, 2012, 48, 546-548. | 2.2 | 8 |
| 118 | Generationâ€Ðependent Hostâ€“Guest Interactions: Solution States of Polyglycerol Dendrimers of Generationsâ€…3 and 4 Modulate the Localization of a Guest Molecule. Chemistry - A European Journal, 2012, 18, 10624-10629. | 1.7 | 8 |
| 119 | Two-layer reflectometric interference spectroscopy-based immunosensing for C-reactive protein. Mikrochimica Acta, 2015, 182, 307-313. | 2.5 | 8 |
| 120 | Hydrophilic crosslinked-polymeric surface capable of effective suppression of protein adsorption. Applied Surface Science, 2016, 378, 467-472. | 3.1 | 8 |
| 121 | Tuned Surface and Mechanical Properties of Polymeric Film Prepared by Random Copolymers Consisting of Methacrylateâ€POSS and 2â€(Methacryloyloxy)ethyl Phosphorylcholine. Macromolecular Chemistry and Physics, 2018, 219, 1700572. | 1.1 | 8 |
| 122 | Hydrotropic Nanocarriers for Poorly Soluble Drugs. , 2006, , 51-73. | | 8 |
| 123 | Raman scattering study of water clusters around polyrotaxane and pseudopolyrotaxane supramolecular assemblies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 285-289. | 2.0 | 7 |
| 124 | Preparation of polypseudorotaxane consisting of fluorescent molecule-modified Î²-cyclodextrins and biotin-terminated poly(propylene glycol) with high yield. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 57, 233-236. | 1.6 | 7 |
| 125 | Reflectometric interference spectroscopy-based sensing for evaluating biodegradability of polymeric thin films. Acta Biomaterialia, 2016, 38, 163-167. | 4.1 | 7 |
| 126 | Copolymers Composed of 2-(Methacryloyloxy)ethyl Phosphorylcholine and Methacrylated Polyhedral Oligomeric Silsesquioxane as a Simple Modifier for Liposomes. ACS Applied Polymer Materials, 2020, 2, 1909-1916. | 2.0 | 7 |

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| 127 | Development of endodontic sealers containing antimicrobial-loaded polymer particles with long-term antibacterial effects. Dental Materials, 2021, 37, 1248-1259. | 1.6 | 7 |
| 128 | Size Dependency of Selective Cellular Uptake of Epigallocatechin Gallate-modified Gold Nanoparticles for Effective Radiosensitization. ACS Applied Bio Materials, 2022, 5, 355-365. | 2.3 | 7 |
| 129 | Self-assembled plasmid DNA network prepared through both triple-helix formation and streptavidinâ€“biotin interaction. Macromolecular Bioscience, 2002, 2, 195. | 2.1 | 6 |
| 130 | Hydrogels having tubular Î±-cyclodextrin structure: effect of nano-tube structure on long alkyl chain partitions. Science and Technology of Advanced Materials, 2003, 4, 39-42. | 2.8 | 6 |
| 131 | 1H NMR titration study of stimuli-responsive supramolecular assemblies: inclusion complexes between PEGâ€“b-PEI copolymer-grafted dextran and naphthalene-appended Î³-cyclodextrin via double-strand inclusion. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 57, 323-328. | 1.6 | 6 |
| 132 | Crosslinked Network with Rotatable Binding Sites Based on Monocarboxylated Î±â€€Cyclodextrin [2]Rotaxane Capable of Angiotensinâ€…III Recognition. Chemistry - A European Journal, 2017, 23, 4708-4712. | 1.7 | 6 |
| 133 | Temperature-induced recovery of a bioactive enzyme using polyglycerol dendrimers: correlation between bound water and protein interaction. Journal of Biomaterials Science, Polymer Edition, 2018, 29, 701-715. | 1.9 | 6 |
| 134 | Novel Design of Supramolecular-Structured Biodegradable Polymer for Drug Delivery. , 1996, , 333-334. | | 6 |
| 135 | Synthesis and characterization of nitric oxide generative polyrotaxane. Journal of Biomaterials Science, Polymer Edition, 2002, 13, 1153-1161. | 1.9 | 5 |
| 136 | Molecular-Recognition and Binding Properties of Cyclodextrin-Conjugated Polyrotaxanes. ChemPhysChem, 2006, 7, 1668-1670. | 1.0 | 5 |
| 137 | Effect of tethered sheet-like motif and asymmetric topology on hydrogelation of star-shaped block copolypeptides. Polymer, 2022, 250, 124864. | 1.8 | 5 |
| 138 | Transience in polyion complexation between nicotinamide-modified dextran and carboxymethyl dextran during enzymatic degradation of dextran. Journal of Biomaterials Science, Polymer Edition, 2001, 12, 1109-1122. | 1.9 | 4 |
| 139 | Design of Biodegradable Polyrotaxanes for Multivalent Interaction with Biological Systems.. Kobunshi Ronbunshu, 2002, 59, 734-741. | 0.2 | 4 |
| 140 | Effect of polymer adsorption on the water structure at the quartz/water interface studied by optical sum frequency generation. Surface Science, 2007, 601, 5173-5179. | 0.8 | 4 |
| 141 | Amino Acidâ€Dependent Hostâ€“Guest Interaction: Polyglycerol Dendrimer of Generationâ€…3 Encapsulates Amino Acids Bearing Two Amino Groups. ChemNanoMat, 2015, 1, 264-269. | 1.5 | 4 |
| 142 | A Supramolecular Hydrogel Based on Polyglycerol Dendrimerâ€Specific Amino Group Recognition. Chemistry - an Asian Journal, 2018, 13, 1688-1691. | 1.7 | 4 |
| 143 | Combined Treatment with Ultrasound and Immune Checkpoint Inhibitors for Prostate Cancer. Journal of Clinical Medicine, 2022, 11, 2448. | 1.0 | 4 |
| 144 | Polyrotaxanes: Challenge to Multivalent Binding with Biological Receptors on Cell Surfaces. Materials Science Forum, 2003, 426-432, 3243-3248. | 0.3 | 3 |

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