

Haoyu Tang

List of Publications by Year in descending order

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76
papers

2,132
citations

279798

23
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243625

44
g-index

80
all docs

80
docs citations

80
times ranked

2083
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Preparation of antibacterial polypeptides with different topologies and their antibacterial properties. <i>Biomaterials Science</i> , 2022, 10, 834-845. | 5.4 | 10 |
| 2 | Imidazolium-Based Polypeptide Coating with a Synergistic Antibacterial Effect and a Biofilm-Responsive Property. <i>ACS Macro Letters</i> , 2022, 11, 387-393. | 4.8 | 10 |
| 3 | Facile Preparation of Polysaccharide~Polypeptide Conjugates via a Biphasic Solution Ring-Opening Polymerization. <i>ACS Macro Letters</i> , 2022, 11, 663-668. | 4.8 | 9 |
| 4 | Guanidine-rich helical polypeptides bearing hydrophobic amino acid pendants for efficient gene delivery. <i>Biomaterials Science</i> , 2021, 9, 2670-2678. | 5.4 | 4 |
| 5 | A sulfonate-based polypeptide toward infection-resistant coatings. <i>Biomaterials Science</i> , 2021, 9, 6425-6433. | 5.4 | 10 |
| 6 | Transition of Conformation and Solubility in β -Sheet-Structured Poly(L-cysteine)s with Methylthio or Sulfonium Pendants. <i>Biomacromolecules</i> , 2021, 22, 1211-1219. | 5.4 | 8 |
| 7 | Hierarchical nanochannels based on rod-coil block copolymer for ion transport and energy conversion. <i>Giant</i> , 2021, 5, 100049. | 5.1 | 19 |
| 8 | Preparation and solution properties of helical sulfonium-based polypeptides and their polyelectrolyte complexes. <i>European Polymer Journal</i> , 2021, 149, 110390. | 5.4 | 3 |
| 9 | Facile Synthesis of Imidazolium-Based Block Copolypeptides with Excellent Antimicrobial Activity. <i>Biomacromolecules</i> , 2021, 22, 2373-2381. | 5.4 | 14 |
| 10 | Single-Chain Nanoparticle-Based Coatings with Improved Bactericidal Activity and Antifouling Properties. <i>Biomacromolecules</i> , 2021, 22, 4306-4315. | 5.4 | 21 |
| 11 | Efficient synthesis and excellent antimicrobial activity of star-shaped cationic polypeptides with improved biocompatibility. <i>Biomaterials Science</i> , 2021, 9, 2721-2731. | 5.4 | 25 |
| 12 | Synthesis and Thermo-responsive Properties of Biocompatible and Biodegradable Triblock Copolymers Bearing Linear or β -Shaped OEG Pendants. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900421. | 2.2 | 1 |
| 13 | Preparation and Properties of UCST-type Thermo-responsive Polypeptide Bearing Amide Pendants. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900549. | 2.2 | 3 |
| 14 | Preparation and properties of thermo- and pH-responsive polypeptide bearing OEG and aldehyde pendants. <i>Colloid and Polymer Science</i> , 2020, 298, 1293-1302. | 2.1 | 7 |
| 15 | Electrostatic assembly functionalization of poly(β -glutamic acid) for biomedical antibacterial applications. <i>Journal of Materials Science and Technology</i> , 2020, 59, 14-25. | 10.7 | 14 |
| 16 | Synthesis and Properties of Mono- or Diamine-Initiated Imidazolium-Based Cationic Polypeptides. <i>Biomacromolecules</i> , 2020, 21, 3468-3478. | 5.4 | 14 |
| 17 | Synthesis and UCST-type thermo-responsive properties of polypeptide based single-chain nanoparticles. <i>Polymer Chemistry</i> , 2019, 10, 5206-5214. | 3.9 | 9 |
| 18 | Synthesis and Properties of UCST-type Thermo- and Light-Responsive Homopolypeptides with Azobenzene Spacers and Imidazolium Pendants. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900061. | 2.2 | 8 |

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|----|---|------|-----------|
| 19 | Triblock copolymers containing UCST polypeptide and poly(propylene glycol): Synthesis, thermoresponsive properties, and modification of PVA hydrogel. <i>European Polymer Journal</i> , 2019, 115, 244-250. | 5.4 | 17 |
| 20 | Thermo- and oxidation-responsive homopolypeptide: synthesis, stimuli-responsive property and antimicrobial activity. <i>Polymer Chemistry</i> , 2019, 10, 2190-2202. | 3.9 | 15 |
| 21 | Unusual light-tunable thermoresponsive behavior of OEGylated homopolypeptide with azobenzene and thioether spacers. <i>European Polymer Journal</i> , 2019, 111, 38-42. | 5.4 | 8 |
| 22 | OEGylated polypeptide bearing Y-Shaped pendants with a LCST close to body temperature: Synthesis and thermoresponsive properties. <i>European Polymer Journal</i> , 2019, 112, 547-554. | 5.4 | 11 |
| 23 | Preparation and mechanical properties of strong and tough poly (vinyl alcohol)-polypeptide double-network hydrogels. <i>European Polymer Journal</i> , 2018, 99, 504-510. | 5.4 | 10 |
| 24 | Synthesis and thermoresponsive properties of OEGylated polypeptide with a LCST at body temperature in water and with a UCST in alcohol or ethanol/water solvent mixture. <i>Journal of Polymer Science Part A</i> , 2018, 56, 163-173. | 2.3 | 7 |
| 25 | SO ₂ , temperature, and oxidation multi-responsive homopolypeptide: Synthesis, characterization, and exploration of their potential applications. <i>European Polymer Journal</i> , 2018, 109, 523-531. | 5.4 | 5 |
| 26 | Interactions between Membranes and α -Metaphilic Polypeptide Architectures with Diverse Side-Chain Populations. <i>ACS Nano</i> , 2017, 11, 2858-2871. | 14.6 | 41 |
| 27 | Thermo and pH dual responsive polypeptides derived from α -clickable poly(β -3-methylthiopropyl-L-glutamate). <i>Polymer Chemistry</i> , 2017, 8, 1895-1905. | 3.9 | 19 |
| 28 | Preparation and UCST-Type Phase Behaviours of Poly(β -4-methylbenzyl-L-glutamate) Pyridinium Tetrafluoroborate Conjugates in Methanol or Water. <i>Australian Journal of Chemistry</i> , 2017, 70, 245. | 0.9 | 5 |
| 29 | Synthesis and thermoresponsive properties of poly(L-cysteine)s bearing imidazolium salts. <i>European Polymer Journal</i> , 2017, 88, 340-348. | 5.4 | 15 |
| 30 | Preparation and thermoresponsive properties of UCST-type glycopolypeptide bearing mannose pendants and 3-methyl-1,2,3-triazolium linkages in ethanol or ethanol/water solvent mixtures. <i>Colloid and Polymer Science</i> , 2017, 295, 773-782. | 2.1 | 2 |
| 31 | Preparation and Thermoresponsive Properties of UCST-type Polypeptide Bearing α -Tolyl Pendants and 3-Methyl-1,2,3-triazolium Linkages in Methanol or Ethanol/Water Solvent Mixtures. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700006. | 2.2 | 5 |
| 32 | A pH and redox dual responsive homopolypeptide: synthesis, characterization, and application in α -smart single-walled carbon nanotube dispersion. <i>Polymer Chemistry</i> , 2017, 8, 7025-7032. | 3.9 | 10 |
| 33 | Dual thermoresponsive homopolypeptide with LCST-type linkages and UCST-type pendants: Synthesis, characterization, and thermoresponsive properties. <i>Polymer</i> , 2017, 132, 264-272. | 3.8 | 20 |
| 34 | Thermoresponsive Polymers with Lower Critical Solution Temperature or Upper Critical Solution Temperature Type Phase Behaviour Do Not Induce Toxicity to Human Endothelial Cells. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2017, 120, 79-85. | 2.5 | 30 |
| 35 | Synthesis and UCST-type phase behavior of OEGylated poly(β -benzyl-L-glutamate) in organic media. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1348-1356. | 2.3 | 14 |
| 36 | Synthesis and UCST-type phase behavior of β -helical polypeptides with Y-shaped and imidazolium pendants. <i>Polymer Chemistry</i> , 2016, 7, 5978-5987. | 3.9 | 34 |

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|----|---|-----|-----------|
| 37 | Preparation of glycopolypeptides bearing mannose moieties and biphenyl pendants and their upper critical solution temperature-type thermoresponsive properties in alcohol/water solvent mixtures. <i>Polymer International</i> , 2016, 65, 1493-1500. | 3.1 | 7 |
| 38 | Synthesis and UCST-type phase behaviors of OEGylated random copolypeptides in alcoholic solvents. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3444-3453. | 2.3 | 5 |
| 39 | Synthesis and UCST-type phase behavior of polypeptide with alkyl side-chains in alcohol or ethanol/water solvent mixtures. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3425-3435. | 2.3 | 16 |
| 40 | Synthesis of pH-sensitive, water-soluble paclitaxel prodrugs based on norbornene-functional polylactide by copper-free click chemistry. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016, 65, 789-796. | 3.4 | 3 |
| 41 | SO ₂ -Induced Solution Phase Transition of Water-Soluble and α -Helical Polypeptides. <i>Macromolecules</i> , 2016, 49, 3542-3549. | 4.8 | 20 |
| 42 | Synthesis and LCST-type phase behavior of water-soluble polypeptide with Y-shaped and charged side-chains. <i>Polymer Chemistry</i> , 2016, 7, 1922-1930. | 3.9 | 29 |
| 43 | Synthesis, Characterization, and thermoresponsive properties of Helical Polypeptides Derivatized from Poly(α -chloropropoxycarbonyl)benzyl-L-glutamate). <i>Journal of Polymer Science Part A</i> , 2015, 53, 2469-2480. | 2.3 | 15 |
| 44 | Facile Synthesis and Solid-State Properties of Liquid-Crystalline Polypeptides Bearing Biphenyl Mesogens and Alkyl Tails. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 196-204. | 2.2 | 7 |
| 45 | Ionic α -helical polypeptides toward nonviral gene delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015, 7, 98-110. | 6.1 | 13 |
| 46 | Synthesis and Properties of Side-Chain Liquid Crystalline Polypeptides Bearing Various Alkyl Spacers and Oligo-ethylene-glycol Tails. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 2270-2278. | 2.2 | 2 |
| 47 | Water-Soluble Thermoresponsive α -Helical Polypeptide with an Upper Critical Solution Temperature: Synthesis, Characterization, and Thermoresponsive Phase Transition Behaviors. <i>Macromolecular Rapid Communications</i> , 2015, 36, 453-458. | 3.9 | 43 |
| 48 | Preparation and UCST-type phase behavior of glycopolypeptides in alcoholic solvents. <i>RSC Advances</i> , 2015, 5, 108023-108029. | 3.6 | 10 |
| 49 | Synthesis and solid-state properties of thermotropic liquid crystalline polypeptide bearing imidazolium and p-tolyl groups. <i>European Polymer Journal</i> , 2015, 63, 74-79. | 5.4 | 7 |
| 50 | Preparation and thermoresponsive properties of helical polypeptides bearing pyridinium salts. <i>RSC Advances</i> , 2015, 5, 40772-40778. | 3.6 | 23 |
| 51 | Polypeptide vesicles with densely packed multilayer membranes. <i>Soft Matter</i> , 2015, 11, 4091-4098. | 2.7 | 40 |
| 52 | Polypeptide ionic liquid: Synthesis, characterization, and application in single-walled carbon nanotube dispersion. <i>Journal of Polymer Science Part A</i> , 2014, 52, 149-153. | 2.3 | 30 |
| 53 | Thermoresponsive poly(α -propyl-L-glutamate)-graft-(oligo ethylene glycol)s: Synthesis, characterization, and properties. <i>Journal of Applied Polymer Science</i> , 2014, 131, . | 2.6 | 9 |
| 54 | One-Pot Synthesis of Molecular Bottle-Brush Functionalized Single-Walled Carbon Nanotubes with Superior Dispersibility in Water. <i>Macromolecular Rapid Communications</i> , 2014, 35, 97-102. | 3.9 | 18 |

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|----|---|------|-----------|
| 55 | One-pot synthesis of hyperbranched poly(aryl ether ketone)s for the modification of bismaleimide resins. <i>Polymer Engineering and Science</i> , 2014, 54, 1675-1685. | 3.1 | 11 |
| 56 | Recent advances in amino acid N-carboxyanhydrides and synthetic polypeptides: chemistry, self-assembly and biological applications. <i>Chemical Communications</i> , 2014, 50, 139-155. | 4.1 | 256 |
| 57 | Synthesis and solid-state self-assembly of poly(ethylene glycol)-b-poly(β -benzyl-L-glutamate)s and single-walled carbon nanotubes. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1905-1915. | 2.3 | 3 |
| 58 | Maximizing gene delivery efficiencies of cationic helical polypeptides via balanced membrane penetration and cellular targeting. <i>Biomaterials</i> , 2014, 35, 1302-1314. | 11.4 | 52 |
| 59 | Helical poly(arginine) mimics with superior cell-penetrating and molecular transporting properties. <i>Chemical Science</i> , 2013, 4, 3839. | 7.4 | 134 |
| 60 | Light-Responsive Helical Polypeptides Capable of Reducing Toxicity and Unpacking DNA: Toward Nonviral Gene Delivery. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9182-9186. | 13.8 | 148 |
| 61 | Steric hindrance effect on thermoresponsive behaviors of pyrrolidone-based polymers. <i>Polymer Chemistry</i> , 2013, 4, 1068-1076. | 3.9 | 22 |
| 62 | Reconfiguring the architectures of cationic helical polypeptides to control non-viral gene delivery. <i>Biomaterials</i> , 2013, 34, 2340-2349. | 11.4 | 80 |
| 63 | Supramolecular Self-Assembled Nanoparticles Mediate Oral Delivery of Therapeutic TNF α siRNA against Systemic Inflammation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5757-5761. | 13.8 | 84 |
| 64 | Solid state self-assembly of the single-walled carbon nanotubes and poly(β -benzyl-L-glutamate)s with different conformations. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4489-4497. | 2.3 | 6 |
| 65 | Water-Soluble Poly(L-serine)s with Elongated and Charged Side-Chains: Synthesis, Conformations, and Cell-Penetrating Properties. <i>Biomacromolecules</i> , 2012, 13, 2609-2615. | 5.4 | 51 |
| 66 | Unusual effect of molecular weight and concentration on thermoresponsive behaviors of well-defined water-soluble semirigid polymers. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3664-3673. | 2.3 | 15 |
| 67 | Core-Shell Molecular Bottlebrushes with Helical Polypeptide Backbone: Synthesis, Characterization, and Solution Conformations. <i>Macromolecules</i> , 2011, 44, 1491-1499. | 4.8 | 91 |
| 68 | Multi-functionalization of helical block copoly(β -peptide)s by orthogonal chemistry. <i>Polymer Chemistry</i> , 2011, 2, 1542. | 3.9 | 68 |
| 69 | Thermoreversible gelation of helical polypeptide/single-walled carbon nanotubes and their solid-state structures. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3228-3238. | 2.3 | 13 |
| 70 | Poly(β -benzyl-L-glutamate)-functionalized single-walled carbon nanotubes from surface-initiated ring-opening polymerizations of N-carboxyanhydride. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2340-2350. | 2.3 | 24 |
| 71 | General Route toward Side-Chain-Functionalized β -Helical Polypeptides. <i>Biomacromolecules</i> , 2010, 11, 1585-1592. | 5.4 | 129 |
| 72 | Synthesis, preparation and properties of novel high-performance allyl-maleimide resins. <i>Polymer</i> , 2009, 50, 1414-1422. | 3.8 | 30 |

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|----|--|-----|-----------|
| 73 | Synthesis and properties of silicon-containing bismaleimide resins. <i>Journal of Applied Polymer Science</i> , 2008, 109, 190-199. | 2.6 | 24 |
| 74 | Crosslinkable poly(aryl ether ketone)s containing pendant phenylethynyl moieties: Synthesis, characterization and properties. <i>Polymer</i> , 2008, 49, 4080-4086. | 3.8 | 27 |
| 75 | Preparation and properties of high performance bismaleimide resins based on 1,3,4-oxadiazole-containing monomers. <i>European Polymer Journal</i> , 2007, 43, 1313-1321. | 5.4 | 21 |
| 76 | Synthesis and properties of 1,3,4-oxadiazole-containing high-performance bismaleimide resins. <i>Polymer</i> , 2007, 48, 129-138. | 3.8 | 62 |