

Haoyu Tang

List of Publications by Year in descending order

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76
papers

2,132
citations

279798

23
h-index

243625

44
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80
all docs

80
docs citations

80
times ranked

2083
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Helical poly(arginine) mimics with superior cell-penetrating and molecular transporting properties. <i>Chemical Science</i> , 2013, 4, 3839.	7.4	134
4	General Route toward Side-Chain-Functionalized α -Helical Polypeptides. <i>Biomacromolecules</i> , 2010, 11, 1585-1592.	5.4	129
5	Core-Shell Molecular Bottlebrushes with Helical Polypeptide Backbone: Synthesis, Characterization, and Solution Conformations. <i>Macromolecules</i> , 2011, 44, 1491-1499.	4.8	91
6	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
7	Reconfiguring the architectures of cationic helical polypeptides to control non-viral gene delivery. <i>Biomaterials</i> , 2013, 34, 2340-2349.	11.4	80
8	Multi-functionalization of helical block copoly(α -peptide)s by orthogonal chemistry. <i>Polymer Chemistry</i> , 2011, 2, 1542.	3.9	68
9	Synthesis and properties of 1,3,4-oxadiazole-containing high-performance bismaleimide resins. <i>Polymer</i> , 2007, 48, 129-138.	3.8	62
10	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
11	Water-Soluble Poly(α -serine)s with Elongated and Charged Side-Chains: Synthesis, Conformations, and Cell-Penetrating Properties. <i>Biomacromolecules</i> , 2012, 13, 2609-2615.	5.4	51
12	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
13	Interactions between Membranes and α -Metaphilic Polypeptide Architectures with Diverse Side-Chain Populations. <i>ACS Nano</i> , 2017, 11, 2858-2871.	14.6	41
14	Polypeptide vesicles with densely packed multilayer membranes. <i>Soft Matter</i> , 2015, 11, 4091-4098.	2.7	40
15	Synthesis and UCST-type phase behavior of α -helical polypeptides with Y-shaped and imidazolium pendants. <i>Polymer Chemistry</i> , 2016, 7, 5978-5987.	3.9	34
16	Synthesis, preparation and properties of novel high-performance allyl-maleimide resins. <i>Polymer</i> , 2009, 50, 1414-1422.	3.8	30
17	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
18	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

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19	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
20	Crosslinkable poly(aryl ether ketone)s containing pendant phenylethynyl moieties: Synthesis, characterization and properties. <i>Polymer</i> , 2008, 49, 4080-4086.	3.8	27
21	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
22	Synthesis and properties of silicon-containing bismaleimide resins. <i>Journal of Applied Polymer Science</i> , 2008, 109, 190-199.	2.6	24
23	Poly(β -benzyl-L-glutamate)-functionalized single-walled carbon nanotubes from surface-initiated ring-opening polymerizations of <i>N</i> -carboxylanhydride. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2340-2350.	2.3	24
24	Preparation and thermoresponsive properties of helical polypeptides bearing pyridinium salts. <i>RSC Advances</i> , 2015, 5, 40772-40778.	3.6	23
25	Steric hindrance effect on thermoresponsive behaviors of pyrrolidone-based polymers. <i>Polymer Chemistry</i> , 2013, 4, 1068-1076.	3.9	22
26	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
27	Single-Chain Nanoparticle-Based Coatings with Improved Bactericidal Activity and Antifouling Properties. <i>Biomacromolecules</i> , 2021, 22, 4306-4315.	5.4	21
28	SO ₂ -Induced Solution Phase Transition of Water-Soluble and α -Helical Polypeptides. <i>Macromolecules</i> , 2016, 49, 3542-3549.	4.8	20
29	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
30	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
31	Hierarchical nanochannels based on rod-coil block copolymer for ion transport and energy conversion. <i>Giant</i> , 2021, 5, 100049.	5.1	19
32	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
33	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
34	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
35	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
36	Synthesis, Characterization, and thermoresponsive properties of Helical Polypeptides Derivatized from Poly(β -4-(3-chloropropoxycarbonyl)benzyl-L-glutamate). <i>Journal of Polymer Science Part A</i> , 2015, 53, 2469-2480.	2.3	15

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37	Synthesis and thermoresponsive properties of poly(L-cysteine)s bearing imidazolium salts. <i>European Polymer Journal</i> , 2017, 88, 340-348.	5.4	15
38	Thermo- and oxidation-responsive homopolypeptide: synthesis, stimuli-responsive property and antimicrobial activity. <i>Polymer Chemistry</i> , 2019, 10, 2190-2202.	3.9	15
39	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
40	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
41	Synthesis and Properties of Mono- or Diamine-Initiated Imidazolium-Based Cationic Polypeptides. <i>Biomacromolecules</i> , 2020, 21, 3468-3478.	5.4	14
42	Facile Synthesis of Imidazolium-Based Block Copolypeptides with Excellent Antimicrobial Activity. <i>Biomacromolecules</i> , 2021, 22, 2373-2381.	5.4	14
43	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
44	Ionic β -helical polypeptides toward nonviral gene delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015, 7, 98-110.	6.1	13
45	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
46	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
47	Preparation and UCST-type phase behavior of glycopolypeptides in alcoholic solvents. <i>RSC Advances</i> , 2015, 5, 108023-108029.	3.6	10
48	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
49	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
50	A sulfonate-based polypeptide toward infection-resistant coatings. <i>Biomaterials Science</i> , 2021, 9, 6425-6433.	5.4	10
51	Preparation of antibacterial polypeptides with different topologies and their antibacterial properties. <i>Biomaterials Science</i> , 2022, 10, 834-845.	5.4	10
52	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
53	Thermoresponsive poly(β -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	Synthesis and UCST-type thermoresponsive properties of polypeptide based single-chain nanoparticles. <i>Polymer Chemistry</i> , 2019, 10, 5206-5214.	3.9	9

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55	Facile Preparation of Polysaccharide~Polypeptide Conjugates via a Biphasic Solution Ring-Opening Polymerization. ACS Macro Letters, 2022, 11, 663-668.	4.8	9
56	Synthesis and Properties of UCST~Type Thermo~and Light~Responsive Homopolypeptides with Azobenzene Spacers and Imidazolium Pendants. Macromolecular Chemistry and Physics, 2019, 220, 1900061.	2.2	8
57	Unusual light-tunable thermoresponsive behavior of OEGylated homopolypeptide with azobenzene and thioether spacers. European Polymer Journal, 2019, 111, 38-42.	5.4	8
58	Transition of Conformation and Solubility in β -Sheet-Structured Poly(L-cysteine)s with Methylthio or Sulfonium Pendants. Biomacromolecules, 2021, 22, 1211-1219.	5.4	8
59	Facile Synthesis and Solid~State Properties of Liquid~Crystalline Polypeptides Bearing Biphenyl Mesogens and Alkyl Tails. Macromolecular Chemistry and Physics, 2015, 216, 196-204.	2.2	7
60	Synthesis and solid-state properties of thermotropic liquid crystalline polypeptide bearing imidazolium and p-tolyl groups. European Polymer Journal, 2015, 63, 74-79.	5.4	7
61	Preparation of glycopolypeptides bearing mannose moieties and biphenyl pendants and their upper~critical~solution~temperature~type thermoresponsive properties in alcohol/water solvent mixtures. Polymer International, 2016, 65, 1493-1500.	3.1	7
62	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. Journal of Polymer Science Part A, 2018, 56, 163-173.	2.3	7
63	Preparation and properties of thermo- and pH-responsive polypeptide bearing OEG and aldehyde pendants. Colloid and Polymer Science, 2020, 298, 1293-1302.	2.1	7
64	Solid state self-assembly of the single-walled carbon nanotubes and poly(L-benzyl-L-glutamate)s with different conformations. Journal of Polymer Science Part A, 2013, 51, 4489-4497.	2.3	6
65	Synthesis and UCST-type phase behaviors of OEGylated random copolypeptides in alcoholic solvents. Journal of Polymer Science Part A, 2016, 54, 3444-3453.	2.3	5
66	Preparation and UCST-Type Phase Behaviours of Poly(L-4-methylbenzyl-L-glutamate) Pyridinium Tetrafluoroborate Conjugates in Methanol or Water. Australian Journal of Chemistry, 2017, 70, 245.	0.9	5
67	Preparation and Thermoresponsive Properties of UCST~Type Polypeptide Bearing p-Tolyl Pendants and Methyl-1,2,3-triazolium Linkages in Methanol or Ethanol/Water Solvent Mixtures. Macromolecular Chemistry and Physics, 2017, 218, 1700006.	2.2	5
68	SO ₂ , temperature, and oxidation multi-responsive homopolypeptide: Synthesis, characterization, and exploration of their potential applications. European Polymer Journal, 2018, 109, 523-531.	5.4	5
69	Guanidine-rich helical polypeptides bearing hydrophobic amino acid pendants for efficient gene delivery. Biomaterials Science, 2021, 9, 2670-2678.	5.4	4
70	Synthesis and solid-state self-assembly of poly(ethylene glycol)-b-poly(L-benzyl-L-glutamate)s and single-walled carbon nanotubes. Journal of Polymer Science Part A, 2014, 52, 1905-1915.	2.3	3
71	Synthesis of pH-sensitive, water-soluble paclitaxel prodrugs based on norbornene-functional polylactide by copper-free click chemistry. International Journal of Polymeric Materials and Polymeric Biomaterials, 2016, 65, 789-796.	3.4	3
72	Preparation and Properties of UCST~Type Thermoresponsive Polypeptide Bearing Amide Pendants. Macromolecular Chemistry and Physics, 2020, 221, 1900549.	2.2	3

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73	Preparation and solution properties of helical sulfonium-based polypeptides and their polyelectrolyte complexes. <i>European Polymer Journal</i> , 2021, 149, 110390.	5.4	3
74	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
75	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
76	Synthesis and Thermoresponsive Properties of Biocompatible and Biodegradable Triblock Copolymers Bearing Linear or γ -Shaped OEG Pendants. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900421.	2.2	1