

Ziyuan Song

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68 papers	2,926 citations	30 h-index	53 g-index
69 ext. papers	3,483 ext. citations	11.6 avg, IF	5.3 L-index

#	Paper	IF	Citations
68	Dimeric drug polymeric nanoparticles with exceptionally high drug loading and quantitative loading efficiency. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3458-61	16.4	240
67	Recent advances in amino acid N-carboxyanhydrides and synthetic polypeptides: chemistry, self-assembly and biological applications. <i>Chemical Communications</i> , 2014 , 50, 139-55	5.8	224
66	Synthetic polypeptides: from polymer design to supramolecular assembly and biomedical application. <i>Chemical Society Reviews</i> , 2017 , 46, 6570-6599	58.5	193
65	Nonviral gene editing via CRISPR/Cas9 delivery by membrane-disruptive and endosomolytic helical polypeptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4903-4908	11.5	153
64	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	16.4	135
63	Helical antimicrobial polypeptides with radial amphiphilicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13155-60	11.5	120
62	Non-viral gene delivery via membrane-penetrating, mannose-targeting supramolecular self-assembled nanocomplexes. <i>Advanced Materials</i> , 2013 , 25, 3063-70	24	113
61	Suppression of Hepatic Inflammation via Systemic siRNA Delivery by Membrane-Disruptive and Endosomolytic Helical Polypeptide Hybrid Nanoparticles. <i>ACS Nano</i> , 2016 , 10, 1859-70	16.7	82
60	Trigger-responsive, fast-degradable poly(β-amino ester)s for enhanced DNA unpackaging and reduced toxicity. <i>Biomaterials</i> , 2014 , 35, 5006-15	15.6	81
59	Cooperative polymerization of helices induced by macromolecular architecture. <i>Nature Chemistry</i> , 2017 , 9, 614-622	17.6	79
58	Bacteria-Assisted Activation of Antimicrobial Polypeptides by a Random-Coil to Helix Transition. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10826-10829	16.4	77
57	Supramolecular self-assembled nanoparticles mediate oral delivery of therapeutic TNF-β siRNA against systemic inflammation. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5757-61	16.4	77
56	Effective and Selective Anti-Cancer Protein Delivery via All-Functions-in-One Nanocarriers Coupled with Visible Light-Responsive, Reversible Protein Engineering. <i>Advanced Functional Materials</i> , 2018 , 28, 1706710	15.6	74
55	Reconfiguring the architectures of cationic helical polypeptides to control non-viral gene delivery. <i>Biomaterials</i> , 2013 , 34, 2340-9	15.6	73
54	Selective killing of with pH-responsive helix-coil conformation transitionable antimicrobial polypeptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 12675-12680	11.5	73
53	The effect of side-chain functionality and hydrophobicity on the gene delivery capabilities of cationic helical polypeptides. <i>Biomaterials</i> , 2014 , 35, 3443-54	15.6	71
52	Self-assembly of helical polypeptides driven by complex coacervation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11128-32	16.4	68

51	Secondary structures in synthetic polypeptides from N-carboxyanhydrides: design, modulation, association, and material applications. <i>Chemical Society Reviews</i> , 2018 , 47, 7401-7425	58.5	65
50	Pamidronate functionalized nanoconjugates for targeted therapy of focal skeletal malignant osteolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4601-9	11.5	53
49	Synthesis of polypeptides via bioinspired polymerization of in situ purified -carboxyanhydrides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10658-10663	11.5	52
48	New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6359-68	9.5	52
47	Recent Advances and Future Perspectives of Synthetic Polypeptides from N-Carboxyanhydrides. <i>Macromolecules</i> , 2019 , 52, 8521-8539	5.5	50
46	Maximizing gene delivery efficiencies of cationic helical polypeptides via balanced membrane penetration and cellular targeting. <i>Biomaterials</i> , 2014 , 35, 1302-14	15.6	43
45	Redox-responsive, reversibly-crosslinked thiolated cationic helical polypeptides for efficient siRNA encapsulation and delivery. <i>Journal of Controlled Release</i> , 2015 , 205, 231-9	11.7	43
44	Recent advances in design of antimicrobial peptides and polypeptides toward clinical translation. <i>Advanced Drug Delivery Reviews</i> , 2021 , 170, 261-280	18.5	37
43	Interactions between Membranes and "Metaphilic" Polypeptide Architectures with Diverse Side-Chain Populations. <i>ACS Nano</i> , 2017 , 11, 2858-2871	16.7	33
42	Modulation of polypeptide conformation through donor-acceptor transformation of side-chain hydrogen bonding ligands. <i>Nature Communications</i> , 2017 , 8, 92	17.4	33
41	Super-swelled lyotropic single crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10834-10839	11.5	31
40	Polypeptide vesicles with densely packed multilayer membranes. <i>Soft Matter</i> , 2015 , 11, 4091-8	3.6	31
39	Functional polyesters derived from alternating copolymerization of norbornene anhydride and epoxides. <i>Polymer Chemistry</i> , 2015 , 6, 3586-3590	4.9	30
38	Redox-Responsive Self-Assembled Chain-Shattering Polymeric Therapeutics. <i>Biomaterials Science</i> , 2015 , 3, 1061-5	7.4	30
37	Systemic siRNA delivery to tumors by cell-penetrating helical polypeptide-based metastable nanoparticles. <i>Nanoscale</i> , 2018 , 10, 15339-15349	7.7	28
36	Efficient Gene Delivery Mediated by a Helical Polypeptide: Controlling the Membrane Activity via Multivalency and Light-Assisted Photochemical Internalization (PCI). <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 256-266	9.5	27
35	Proximity-Induced Cooperative Polymerization in "Hinged" Helical Polypeptides. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8680-8683	16.4	26
34	Unimolecular Polypeptide Micelles via Ultrafast Polymerization of -Carboxyanhydrides. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8570-8574	16.4	26

- 33 Enzyme-mimetic self-catalyzed polymerization of polypeptide helices. *Nature Communications*, **2019**, 10, 5470 17.4 23
- 32 Manipulating the membrane penetration mechanism of helical polypeptides via aromatic modification for efficient gene delivery. *Acta Biomaterialia*, **2017**, 58, 146-157 10.8 22
- 31 Polypeptides with quaternary phosphonium side chains: synthesis, characterization, and cell-penetrating properties. *Biomacromolecules*, **2014**, 15, 1491-7 6.9 22
- 30 Photodynamic therapy-mediated remote control of chemotherapy toward synergistic anticancer treatment. *Nanoscale*, **2018**, 10, 14554-14562 7.7 21
- 29 Self-Assembly of α -Helical Polypeptides Driven by Complex Coacervation. *Angewandte Chemie*, **2015**, 127, 11280-11284 3.6 21
- 28 Light-Responsive Helical Polypeptides Capable of Reducing Toxicity and Unpacking DNA: Toward Nonviral Gene Delivery. *Angewandte Chemie*, **2013**, 125, 9352-9356 3.6 19
- 27 Biological applications of water-soluble polypeptides with ordered secondary structures. *Journal of Materials Chemistry B*, **2020**, 8, 6530-6547 7.3 16
- 26 Facile synthesis of helical multiblock copolypeptides: minimal side reactions with accelerated polymerization of α -carboxyanhydrides. *ACS Macro Letters*, **2019**, 8, 1517-1521 6.6 16
- 25 Gene delivery into isolated *Arabidopsis thaliana* protoplasts and intact leaves using cationic, α -helical polypeptide. *Frontiers of Chemical Science and Engineering*, **2017**, 11, 521-528 4.5 14
- 24 UV-responsive degradable polymers derived from 1-(4-aminophenyl) ethane-1,2-diol. *Journal of Polymer Science Part A*, **2015**, 53, 1161-1168 2.5 13
- 23 Ionic α -helical polypeptides toward nonviral gene delivery. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2015**, 7, 98-110 9.2 13
- 22 Topology-assisted, photo-strengthened DNA/siRNA delivery mediated by branched poly(amino ester)s via synchronized intracellular kinetics. *Biomaterials Science*, **2020**, 8, 290-301 7.4 11
- 21 Accelerated polymerization of N-carboxyanhydrides catalyzed by crown ether. *Nature Communications*, **2021**, 12, 732 17.4 11
- 20 Polypeptide-based drug delivery systems for programmed release. *Biomaterials*, **2021**, 275, 120913 15.6 11
- 19 Investigation on the controlled synthesis and post-modification of poly-[(N-2-hydroxyethyl)-aspartamide]-based polymers. *Polymer Chemistry*, **2017**, 8, 1872-1877 4.9 10
- 18 Novel delivery system for T-oligo using a nanocomplex formed with an α -helical peptide for melanoma therapy. *International Journal of Nanomedicine*, **2014**, 9, 43-53 7.3 9
- 17 "Metaphilic" Cell-Penetrating Polypeptide-Vancomycin Conjugate Efficiently Eradicates Intracellular Bacteria via a Dual Mechanism. *ACS Central Science*, **2020**, 6, 2267-2276 16.8 8
- 16 Efficient synthesis and excellent antimicrobial activity of star-shaped cationic polypeptides with improved biocompatibility. *Biomaterials Science*, **2021**, 9, 2721-2731 7.4 7

15	Bacteria-Assisted Activation of Antimicrobial Polypeptides by a Random-Coil to Helix Transition. <i>Angewandte Chemie</i> , 2017 , 129, 10966-10969	3.6	6
14	Development of Polypeptide-based Nanoparticles for Non-viral Delivery of CD22 RNA Trans-splicing Molecule as a New Precision Medicine Candidate Against B-lineage ALL. <i>EBioMedicine</i> , 2015 , 2, 649-59	8.8	6
13	Supramolecular Self-Assembled Nanoparticles Mediate Oral Delivery of Therapeutic TNF- α siRNA against Systemic Inflammation. <i>Angewandte Chemie</i> , 2013 , 125, 5869-5873	3.6	6
12	Streamlined Synthesis of PEG-Polypeptides Directly from Amino Acids. <i>Macromolecules</i> , 2020 , 53, 6589-6597	5.9	6
11	Manipulating the helix-coil transition profile of synthetic polypeptides by leveraging side-chain molecular interactions. <i>Polymer Chemistry</i> , 2020 , 11, 1445-1449	4.9	4
10	A delayed curing ROMP based thermosetting resin. <i>Polymer Chemistry</i> , 2016 , 7, 5093-5098	4.9	4
9	Non-Viral Gene Delivery via Membrane-Penetrating, Mannose-Targeting Supramolecular Self-Assembled Nanocomplexes (Adv. Mater. 22/2013). <i>Advanced Materials</i> , 2013 , 25, 3062-3062	24	1
8	Induction of a higher-ordered architecture in glatiramer acetate improves its biological efficiency in an animal model of multiple sclerosis. <i>Biomaterials Science</i> , 2020 , 8, 5271-5281	7.4	1
7	Potential bleach activators with improved imide hydrolytic stability. <i>International Journal of Industrial Chemistry</i> , 2020 , 11, 177-185	3.1	1
6	Facile Preparation of Polysaccharide-Polypeptide Conjugates via a Biphasic Solution Ring-Opening Polymerization.. <i>ACS Macro Letters</i> , 2022 , 11, 663-668	6.6	1
5	Guanidine-rich helical polypeptides bearing hydrophobic amino acid pendants for efficient gene delivery. <i>Biomaterials Science</i> , 2021 , 9, 2670-2678	7.4	0
4	A sulfonate-based polypeptide toward infection-resistant coatings. <i>Biomaterials Science</i> , 2021 , 9, 6425-6433	7.1	0
3	Nanoengineered polypeptides from tetraphenylethylene-functionalized N-carboxyanhydride: Synthesis, self-assembly and intrinsic aggregation-induced emission. <i>Progress in Natural Science: Materials International</i> , 2021 , 31, 541-545	3.6	0
2	Open-air synthesis of oligo(ethylene glycol)-functionalized polypeptides from non-purified -carboxyanhydrides. <i>Biomaterials Science</i> , 2021 , 9, 4120-4126	7.4	
1	Generalized Model of Cooperative Covalent Polymerization: Connecting the Supramolecular Binding Interactions with the Catalytic Behavior. <i>Macromolecules</i> , 2022 , 55, 2041-2050	5.5	