Ziyuan Song

List of Publications by Year in Descending Order

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Version: 2024-04-09

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

#	Paper	IF	Citations
68	Generalized Model of Cooperative Covalent Polymerization: Connecting the Supramolecular Binding Interactions with the Catalytic Behavior. <i>Macromolecules</i> , 2022 , 55, 2041-2050	5.5	
67	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
66	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
65	Open-air synthesis of oligo(ethylene glycol)-functionalized polypeptides from non-purified -carboxyanhydrides. <i>Biomaterials Science</i> , 2021 , 9, 4120-4126	7.4	
64	Guanidine-rich helical polypeptides bearing hydrophobic amino acid pendants for efficient gene delivery. <i>Biomaterials Science</i> , 2021 , 9, 2670-2678	7.4	O
63	A sulfonate-based polypeptide toward infection-resistant coatings. <i>Biomaterials Science</i> , 2021 , 9, 6425-0	6 4 . <u>3</u> 3	0
62	Accelerated polymerization of N-carboxyanhydrides catalyzed by crown ether. <i>Nature Communications</i> , 2021 , 12, 732	17.4	11
61	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
60	Polypeptide-based drug delivery systems for programmed release. <i>Biomaterials</i> , 2021 , 275, 120913	15.6	11
59	Efficient synthesis and excellent antimicrobial activity of star-shaped cationic polypeptides with improved biocompatibility. <i>Biomaterials Science</i> , 2021 , 9, 2721-2731	7.4	7
58	Biological applications of water-soluble polypeptides with ordered secondary structures. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 6530-6547	7.3	16
57	Unimolecular Polypeptide Micelles via Ultrafast Polymerization of -Carboxyanhydrides. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8570-8574	16.4	26
56	Manipulating the helixBoil transition profile of synthetic polypeptides by leveraging side-chain molecular interactions. <i>Polymer Chemistry</i> , 2020 , 11, 1445-1449	4.9	4
55	Topology-assisted, photo-strengthened DNA/siRNA delivery mediated by branched poly(Emino ester)s via synchronized intracellular kinetics. <i>Biomaterials Science</i> , 2020 , 8, 290-301	7.4	11
54	"Metaphilic" Cell-Penetrating Polypeptide-Vancomycin Conjugate Efficiently Eradicates Intracellular Bacteria via a Dual Mechanism. <i>ACS Central Science</i> , 2020 , 6, 2267-2276	16.8	8
53	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
52	Streamlined Synthesis of PEG-Polypeptides Directly from Amino Acids. <i>Macromolecules</i> , 2020 , 53, 6589-	·65 9 7	6

(2017-2020)

51	Potential bleach activators with improved imide hydrolytic stability. <i>International Journal of Industrial Chemistry</i> , 2020 , 11, 177-185	3.1	1
50	Recent Advances and Future Perspectives of Synthetic Polypeptides from N-Carboxyanhydrides. <i>Macromolecules</i> , 2019 , 52, 8521-8539	5.5	50
49	Synthesis of polypeptides via bioinspired polymerization of in situ purified -carboxyanhydrides. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10658-1066.	3 ^{11.5}	52
48	Proximity-Induced Cooperative Polymerization in "Hinged" Helical Polypeptides. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8680-8683	16.4	26
47	Facile synthesis of helical multiblock copolypeptides: minimal side reactions with accelerated polymerization of -carboxyanhydrides. <i>ACS Macro Letters</i> , 2019 , 8, 1517-1521	6.6	16
46	Enzyme-mimetic self-catalyzed polymerization of polypeptide helices. <i>Nature Communications</i> , 2019 , 10, 5470	17.4	23
45	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
44	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
43	Systemic siRNA delivery to tumors by cell-penetrating Helical polypeptide-based metastable nanoparticles. <i>Nanoscale</i> , 2018 , 10, 15339-15349	7.7	28
42	Photodynamic therapy-mediated remote control of chemotherapy toward synergistic anticancer treatment. <i>Nanoscale</i> , 2018 , 10, 14554-14562	7.7	21
41	Efficient Gene Delivery Mediated by a Helical Polypeptide: Controlling the Membrane Activity via Multivalency and Light-Assisted Photochemical Internalization (PCI). ACS Applied Materials & Interfaces, 2018, 10, 256-266	9.5	27
40	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
39	Gene delivery into isolated Arabidopsis thaliana protoplasts and intact leaves using cationic, Ehelical polypeptide. <i>Frontiers of Chemical Science and Engineering</i> , 2017 , 11, 521-528	4.5	14
38	Interactions between Membranes and "Metaphilic" Polypeptide Architectures with Diverse Side-Chain Populations. <i>ACS Nano</i> , 2017 , 11, 2858-2871	16.7	33
37	Cooperative polymerization of Ehelices induced by macromolecular architecture. <i>Nature Chemistry</i> , 2017 , 9, 614-622	17.6	79
36	Investigation on the controlled synthesis and post-modification of poly-[(N-2-hydroxyethyl)-aspartamide]-based polymers. <i>Polymer Chemistry</i> , 2017 , 8, 1872-1877	4.9	10
35	Manipulating the membrane penetration mechanism of helical polypeptides via aromatic modification for efficient gene delivery. <i>Acta Biomaterialia</i> , 2017 , 58, 146-157	10.8	22
34	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

33	Synthetic polypeptides: from polymer design to supramolecular assembly and biomedical application. <i>Chemical Society Reviews</i> , 2017 , 46, 6570-6599	58.5	193
32	Modulation of polypeptide conformation through donor-acceptor transformation of side-chain hydrogen bonding ligands. <i>Nature Communications</i> , 2017 , 8, 92	17.4	33
31	Bacteria-Assisted Activation of Antimicrobial Polypeptides by a Random-Coil to Helix Transition. <i>Angewandte Chemie</i> , 2017 , 129, 10966-10969	3.6	6
30	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
29	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
28	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
27	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
26	A delayed curing ROMP based thermosetting resin. <i>Polymer Chemistry</i> , 2016 , 7, 5093-5098	4.9	4
25	UV-responsive degradable polymers derived from 1-(4-aminophenyl) ethane-1,2-diol. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 1161-1168	2.5	13
24	Functional polyesters derived from alternating copolymerization of norbornene anhydride and epoxides. <i>Polymer Chemistry</i> , 2015 , 6, 3586-3590	4.9	30
23	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
22	New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Description</i> (1997) New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Descri</i>	9.5	52
21	Polypeptide vesicles with densely packed multilayer membranes. <i>Soft Matter</i> , 2015 , 11, 4091-8	3.6	31
20	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
19	Self-Assembly of Helical Polypeptides Driven by Complex Coacervation. <i>Angewandte Chemie</i> , 2015 , 127, 11280-11284	3.6	21
18	Self-assembly of Enelical polypeptides driven by complex coacervation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11128-32	16.4	68
17	Ionic Enelical polypeptides toward nonviral gene delivery. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2015 , 7, 98-110	9.2	13
16	Redox-Responsive Self-Assembled Chain-Shattering Polymeric Therapeutics. <i>Biomaterials Science</i> , 2015 , 3, 1061-5	7.4	30

LIST OF PUBLICATIONS

15	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
14	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
13	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
12	Polypeptides with quaternary phosphonium side chains: synthesis, characterization, and cell-penetrating properties. <i>Biomacromolecules</i> , 2014 , 15, 1491-7	6.9	22
11	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
10	Trigger-responsive, fast-degradable poly(Elmino ester)s for enhanced DNA unpackaging and reduced toxicity. <i>Biomaterials</i> , 2014 , 35, 5006-15	15.6	81
9	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
8	Novel delivery system for T-oligo using a nanocomplex formed with an alpha helical peptide for melanoma therapy. <i>International Journal of Nanomedicine</i> , 2014 , 9, 43-53	7.3	9
7	Non-viral gene delivery via membrane-penetrating, mannose-targeting supramolecular self-assembled nanocomplexes. <i>Advanced Materials</i> , 2013 , 25, 3063-70	24	113
6	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
5	Reconfiguring the architectures of cationic helical polypeptides to control non-viral gene delivery. <i>Biomaterials</i> , 2013 , 34, 2340-9	15.6	73
4	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
3	Supramolecular self-assembled nanoparticles mediate oral delivery of therapeutic TNF-BiRNA against systemic inflammation. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5757-61	16.4	77
2	Supramolecular Self-Assembled Nanoparticles Mediate Oral Delivery of Therapeutic TNF-BiRNA against Systemic Inflammation. <i>Angewandte Chemie</i> , 2013 , 125, 5869-5873	3.6	6
1	Light-Responsive Helical Polypeptides Capable of Reducing Toxicity and Unpacking DNA: Toward Nonviral Gene Delivery. <i>Angewandte Chemie</i> , 2013 , 125, 9352-9356	3.6	19