

Yilong Cheng

List of Publications by Year in descending order

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72
papers

3,645
citations

101543

36
h-index

133252

59
g-index

74
all docs

74
docs citations

74
times ranked

4636
citing authors

#	ARTICLE	IF	CITATIONS
1	Green Tea Derivative Driven Smart Hydrogels with Desired Functions for Chronic Diabetic Wound Treatment. <i>Advanced Functional Materials</i> , 2021, 31, 2009442.	14.9	202
2	Cationic polymers for non-viral gene delivery to human T cells. <i>Journal of Controlled Release</i> , 2018, 282, 140-147.	9.9	151
3	Preparation of photo-cross-linked pH-responsive polypeptide nanogels as potential carriers for controlled drug delivery. <i>Journal of Materials Chemistry</i> , 2011, 21, 11383.	6.7	138
4	PLK1shRNA and doxorubicin co-loaded thermosensitive PLGA-PEG-PLGA hydrogels for osteosarcoma treatment. <i>Biomaterials</i> , 2014, 35, 8723-8734.	11.4	136
5	Localized Co-delivery of Doxorubicin, Cisplatin, and Methotrexate by Thermosensitive Hydrogels for Enhanced Osteosarcoma Treatment. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27040-27048.	8.0	134
6	Component effect of stem cell-loaded thermosensitive polypeptide hydrogels on cartilage repair. <i>Acta Biomaterialia</i> , 2018, 73, 103-111.	8.3	117
7	Virus-Inspired Polymer for Efficient In-Vitro and In-Vivo Gene Delivery. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12013-12017.	13.8	111
8	Thermosensitive hydrogels based on polypeptides for localized and sustained delivery of anticancer drugs. <i>Biomaterials</i> , 2013, 34, 10338-10347.	11.4	109
9	Plasma-activated water: An alternative disinfectant for S protein inactivation to prevent SARS-CoV-2 infection. <i>Chemical Engineering Journal</i> , 2021, 421, 127742.	12.7	109
10	pH and reduction dual responsive polyurethane triblock copolymers for efficient intracellular drug delivery. <i>Soft Matter</i> , 2013, 9, 2637.	2.7	103
11	Decisive Role of Hydrophobic Side Groups of Polypeptides in Thermosensitive Gelation. <i>Biomacromolecules</i> , 2012, 13, 2053-2059.	5.4	97
12	In Vitro Study of Electroactive Tetraaniline-Containing Thermosensitive Hydrogels for Cardiac Tissue Engineering. <i>Biomacromolecules</i> , 2014, 15, 1115-1123.	5.4	97
13	Extremely Tough, Puncture-Resistant, Transparent, and Photoluminescent Polyurethane Elastomers for Crack Self-Diagnose and Healing Tracking. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30847-30855.	8.0	92
14	Photoactivatable Prodrug-Backboned Polymeric Nanoparticles for Efficient Light-Controlled Gene Delivery and Synergistic Treatment of Platinum-Resistant Ovarian Cancer. <i>Nano Letters</i> , 2020, 20, 3039-3049.	9.1	92
15	Injectable Hydrogel-Microsphere Construct with Sequential Degradation for Locally Synergistic Chemotherapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3487-3496.	8.0	90
16	In vitro and in vivo evaluation of 3D bioprinted small-diameter vasculature with smooth muscle and endothelium. <i>Biofabrication</i> , 2020, 12, 015004.	7.1	90
17	Efficacious hepatoma-targeted nanomedicine self-assembled from galactopeptide and doxorubicin driven by two-stage physical interactions. <i>Journal of Controlled Release</i> , 2013, 169, 193-203.	9.9	89
18	Versatile synthesis of temperature-sensitive polypeptides by click grafting of oligo(ethylene glycol). <i>Polymer Chemistry</i> , 2011, 2, 2627.	3.9	85

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19	Polythiourethane Covalent Adaptable Networks for Strong and Reworkable Adhesives and Fully Recyclable Carbon Fiber-Reinforced Composites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47975-47983.	8.0	85
20	Bioactive skin-mimicking hydrogel band-aids for diabetic wound healing and infectious skin incision treatment. <i>Bioactive Materials</i> , 2021, 6, 3962-3975.	15.6	85
21	Injectable Cholesterol-Enhanced Stereocomplex Polylactide Thermogel Loading Chondrocytes for Optimized Cartilage Regeneration. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900312.	7.6	81
22	Poly(<i>l</i> -glutamic acid) grafted with oligo(2-(2-(2-methoxyethoxy)ethoxy)ethyl methacrylate): Thermal phase transition, secondary structure, and self-assembly. <i>Journal of Polymer Science Part A</i> , 2011, 49, 2665-2676.	2.3	72
23	Injectable enzymatically crosslinked hydrogels based on a poly(<i>l</i> -glutamic acid) graft copolymer. <i>Polymer Chemistry</i> , 2014, 5, 5069-5076.	3.9	62
24	Injectable hydrogels with high drug loading through Bâ€“N coordination and ROS-triggered drug release for efficient treatment of chronic periodontitis in diabetic rats. <i>Biomaterials</i> , 2022, 282, 121387.	11.4	62
25	Versatile Biofunctionalization of Polypeptide-Based Thermosensitive Hydrogels via Click Chemistry. <i>Biomacromolecules</i> , 2013, 14, 468-475.	5.4	61
26	Smart Unimolecular Micelle-Based Polyprodrug with Dual-Redox Stimuli Response for Tumor Microenvironment: Enhanced in Vivo Delivery Efficiency and Tumor Penetration. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36130-36140.	8.0	56
27	pH-sensitive polymer micelles provide selective and potentiated lytic capacity to venom peptides for effective intracellular delivery. <i>Biomaterials</i> , 2019, 192, 235-244.	11.4	55
28	Highly Stretchable Nanocomposite Hydrogels with Outstanding Antifatigue Fracture Based on Robust Noncovalent Interactions for Wound Healing. <i>Chemistry of Materials</i> , 2021, 33, 6453-6463.	6.7	53
29	In vitro and in vivo delivery of siRNA via VIPER polymer system to lung cells. <i>Journal of Controlled Release</i> , 2018, 276, 50-58.	9.9	52
30	Reduction-responsive cross-linked micelles based on PEGylated polypeptides prepared via click chemistry. <i>Polymer Chemistry</i> , 2013, 4, 3851.	3.9	51
31	Development of switchable polymers to address the dilemma of stability and cargo release in polycationic nucleic acid carriers. <i>Biomaterials</i> , 2017, 127, 89-96.	11.4	49
32	Reconfigurable 4D Printing of Reprocessable and Mechanically Strong Polythiourethane Covalent Adaptable Networks. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	47
33	Ultradurable Noncovalent Cross-Linked Hydrogels with Low Hysteresis and Robust Elasticity for Flexible Electronics. <i>Chemistry of Materials</i> , 2022, 34, 3311-3322.	6.7	46
34	Tunable and Processable Shape-Memory Materials Based on Solvent-Free, Catalyst-Free Polycondensation between Formaldehyde and Diamine at Room Temperature. <i>ACS Macro Letters</i> , 2019, 8, 582-587.	4.8	45
35	Hindered urea bonds for dynamic polymers: An overview. <i>Reactive and Functional Polymers</i> , 2021, 159, 104807.	4.1	43
36	Identifying key barriers in cationic polymer gene delivery to human T cells. <i>Biomaterials Science</i> , 2019, 7, 789-797.	5.4	40

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37	Nano-Sized Sunflower Polycations As Effective Gene Transfer Vehicles. <i>Small</i> , 2016, 12, 2750-2758.	10.0	39
38	Serum Nuclease Susceptibility of mRNA Cargo in Condensed Polyplexes. <i>Molecular Pharmaceutics</i> , 2018, 15, 2268-2276.	4.6	39
39	Plasma-activated thermosensitive biogel as an exogenous ROS carrier for post-surgical treatment of cancer. <i>Biomaterials</i> , 2021, 276, 121057.	11.4	37
40	H-Bonding Supramolecular Hydrogels with Promising Mechanical Strength and Shape Memory Properties for Postoperative Antiadhesion Application. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34161-34169.	8.0	36
41	Introduction of a Stable Radical in Polymer Capacitor Enables High Energy Storage and Pulse Discharge Efficiency. <i>Chemistry of Materials</i> , 2020, 32, 9355-9362.	6.7	29
42	Tunable, Injectable Hydrogels Based on Peptide-Cross-Linked, Cyclized Polymer Nanoparticles for Neural Progenitor Cell Delivery. <i>Biomacromolecules</i> , 2017, 18, 2723-2731.	5.4	26
43	Highly Stretchable, Tough, Resilient, and Antifatigue Hydrogels Based on Multiple Hydrogen Bonding Interactions Formed by Phenylalanine Derivatives. <i>Biomacromolecules</i> , 2021, 22, 1297-1304.	5.4	26
44	NIR-triggered dynamic exchange and intrinsic photothermal-responsive covalent adaptable networks. <i>Chemical Engineering Journal</i> , 2022, 428, 131212.	12.7	26
45	Side chain impacts on pH- and thermo-responsiveness of tertiary amine functionalized polypeptides. <i>Journal of Polymer Science Part A</i> , 2014, 52, 671-679.	2.3	24
46	Hydrogen bond reinforced, transparent polycaprolactone-based degradable polyurethane. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5371-5381.	5.9	24
47	Construction of supramolecular hydrogels using imidazolidinyl urea as hydrogen bonding reinforced factor. <i>Journal of Materials Chemistry B</i> , 2020, 8, 3058-3063.	5.8	23
48	Virus-Inspired Polymer for Efficient In-Vitro and In-Vivo Gene Delivery. <i>Angewandte Chemie</i> , 2016, 128, 12192-12196.	2.0	22
49	Injectable Enzymatically Cross-Linked Hydrogels with Light-Controlled Degradation Profile. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800272.	3.9	21
50	Junction opener protein increases nanoparticle accumulation in solid tumors. <i>Journal of Controlled Release</i> , 2018, 272, 9-16.	9.9	18
51	Enhanced Osseointegration by the Hierarchical Micro-Nano Topography on Selective Laser Melting Ti-6Al-4V Dental Implants. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 621601.	4.1	18
52	Resveratrol modulates the apoptosis and autophagic death of human lung adenocarcinoma A549 cells via a p53-dependent pathway: Integrated bioinformatics analysis and experimental validation. <i>International Journal of Oncology</i> , 2020, 57, 925-938.	3.3	18
53	Glomerular disease augments kidney accumulation of synthetic anionic polymers. <i>Biomaterials</i> , 2018, 178, 317-325.	11.4	17
54	Combination of Polydopamine Coating and Plasma Pretreatment to Improve Bond Ability Between PEEK and Primary Teeth. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 630094.	4.1	13

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55	Imidazolidinyl urea reinforced polyacrylamide hydrogels through the formation of multiple hydrogen bonds. <i>Reactive and Functional Polymers</i> , 2022, 172, 105183.	4.1	12
56	Injectable and self-healing hydrogels with tissue adhesiveness and antibacterial activity as wound dressings for infected wound healing. <i>Journal of Polymer Science</i> , 2022, 60, 1511-1520.	3.8	10
57	Luminescence and structure of Eu(DBM)3Phen-doped vesicles composed of amphiphilic PNIPAM-b-PAzoM. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 200, 101-105.	3.9	8
58	PLK1shRNA and doxorubicin co-loaded thermosensitive PLGA-PEG-PLGA hydrogels for localized and combined treatment of human osteosarcoma. <i>Journal of Controlled Release</i> , 2015, 213, e18.	9.9	8
59	Versatile preparation of vesicle from amphiphilic bottlebrush block copolymers. <i>Reactive and Functional Polymers</i> , 2019, 134, 166-173.	4.1	8
60	Visualizing Newly Synthesized RNA by Bioorthogonal Labeling-Primed DNA Amplification. <i>Analytical Chemistry</i> , 2020, 92, 8444-8449.	6.5	8
61	Catalyst-Free One-Step Preparation of Self-Crosslinked pH-Responsive Vesicles. <i>Macromolecular Rapid Communications</i> , 2019, 40, 1900149.	3.9	6
62	Chronic Diabetic Wound Treatment: Green Tea Derivative Driven Smart Hydrogels with Desired Functions for Chronic Diabetic Wound Treatment (<i>Adv. Funct. Mater.</i> 18/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170127.	14.9	6
63	Poly(ethylene glycol)-polypeptide Copolymer Micelles for Therapeutic Agent Delivery. <i>Current Pharmaceutical Biotechnology</i> , 2016, 17, 212-226.	1.6	6
64	The effect of alkyl side groups on the secondary structure and crystallization of poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	3.8	5
65	An Enzyme-Responsive α -Turn-on-Fluorescence Polymeric Superamphiphile as a Potential Visualizable Phosphate Prodrug Delivery Vehicle. <i>Macromolecular Bioscience</i> , 2018, 18, e1800045.	4.1	5
66	Polymer Nanoparticle-Based Chemotherapy for Spinal Malignancies. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-14.	2.7	4
67	Smart Polymeric Nanocarriers. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-2.	2.7	4
68	Peptide modified polycations with pH triggered lytic activity for efficient gene delivery. <i>Biomaterials Science</i> , 2020, 8, 6301-6308.	5.4	4
69	Boronic Acid Copolymers for Direct Loading and Acid-Triggered Release of Bis-T-23 in Cultured Podocytes. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3968-3973.	5.2	3
70	A polymeric prodrug for non-invasive, real-time reporting drug release based on α -turn-on fluorescent probes. <i>Reactive and Functional Polymers</i> , 2020, 154, 104649.	4.1	2
71	Peptide-Modified Polycations with Acid-Triggered Lytic Activity for Efficient Gene Delivery. <i>Biomaterial Engineering</i> , 2021, , 1-17.	0.2	0
72	Peptide-Modified Polycations with Acid-Triggered Lytic Activity for Efficient Gene Delivery. <i>Biomaterial Engineering</i> , 2022, , 235-251.	0.2	0