

Xinge Zhang

List of Publications by Year in descending order

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92
papers

3,456
citations

117571

34
h-index

149623

56
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92
all docs

92
docs citations

92
times ranked

4785
citing authors

#	ARTICLE	IF	CITATIONS
1	Nasal absorption enhancement of insulin using PEG-grafted chitosan nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 68, 526-534.	2.0	169
2	Functional Silver Nanoparticle as a Benign Antimicrobial Agent That Eradicates Antibiotic-Resistant Bacteria and Promotes Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25798-25807.	4.0	167
3	A Biomimetic Non-antibiotic Approach to Eradicate Drug-Resistant Infections. <i>Advanced Materials</i> , 2019, 31, e1806024.	11.1	131
4	Single Continuous Near-Infrared Laser-Triggered Photodynamic and Photothermal Ablation of Antibiotic-Resistant Bacteria Using Effective Targeted Copper Sulfide Nanoclusters. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30470-30479.	4.0	128
5	Polymer-Ag Nanocomposites with Enhanced Antimicrobial Activity against Bacterial Infection. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15813-15821.	4.0	124
6	Chitosan- β -NAC nanoparticles as a vehicle for nasal absorption enhancement of insulin. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 88B, 150-161.	1.6	121
7	Near-Infrared Light-Activated Thermosensitive Liposomes as Efficient Agents for Photothermal and Antibiotic Synergistic Therapy of Bacterial Biofilm. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14426-14437.	4.0	121
8	Bioconjugated nanoparticles for attachment and penetration into pathogenic bacteria. <i>Biomaterials</i> , 2013, 34, 10328-10337.	5.7	105
9	Amphiphilic Random Glycopolymer Based on Phenylboronic Acid: Synthesis, Characterization, and Potential as Glucose-Sensitive Matrix. <i>Biomacromolecules</i> , 2009, 10, 1337-1345.	2.6	103
10	Hollow and degradable polyelectrolyte nanocapsules for protein drug delivery. <i>Acta Biomaterialia</i> , 2010, 6, 210-217.	4.1	79
11	An injectable and glucose-sensitive nanogel for controlled insulin release. <i>Journal of Materials Chemistry</i> , 2012, 22, 22788.	6.7	76
12	An Antifouling Hydrogel Containing Silver Nanoparticles for Modulating the Therapeutic Immune Response in Chronic Wound Healing. <i>Langmuir</i> , 2019, 35, 1837-1845.	1.6	75
13	A hydrotropic β -cyclodextrin grafted hyperbranched polyglycerol co-polymer for hydrophobic drug delivery. <i>Acta Biomaterialia</i> , 2011, 7, 585-592.	4.1	71
14	Phenylboronate-diol crosslinked glycopolymeric nanocarriers for insulin delivery at physiological pH. <i>Soft Matter</i> , 2014, 10, 911.	1.2	71
15	All-in-one NIR-activated nanoplatfoms for enhanced bacterial biofilm eradication. <i>Nanoscale</i> , 2018, 10, 18520-18530.	2.8	69
16	Amphiphilic glycopolymer nanoparticles as vehicles for nasal delivery of peptides and proteins. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 49, 474-482.	1.9	66
17	Block versus Random Amphiphilic Glycopolymer Nanoparticles as Glucose-Responsive Vehicles. <i>Biomacromolecules</i> , 2015, 16, 3345-3356.	2.6	65
18	pH- and glucose-sensitive glycopolymer nanoparticles based on phenylboronic acid for triggered release of insulin. <i>Carbohydrate Polymers</i> , 2012, 89, 124-131.	5.1	62

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19	Functional Silver Nanocomposites as Broad-Spectrum Antimicrobial and Biofilm-Disrupting Agents. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16834-16847.	4.0	62
20	A pH Gated, Glucose-Sensitive Nanoparticle Based on Worm-Like Mesoporous Silica for Controlled Insulin Release. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3852-3860.	1.2	58
21	In situ cross-linked polysaccharide hydrogel as extracellular matrix mimics for antibiotics delivery. <i>Carbohydrate Polymers</i> , 2014, 105, 63-69.	5.1	58
22	Ag-Conjugated graphene quantum dots with blue light-enhanced singlet oxygen generation for ternary-mode highly-efficient antimicrobial therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1371-1382.	2.9	56
23	Phenylboronic acid-containing block copolymers: synthesis, self-assembly, and application for intracellular delivery of proteins. <i>New Journal of Chemistry</i> , 2012, 36, 1413.	1.4	48
24	BODIPY-based macromolecular photosensitizer with cation-enhanced antibacterial activity. <i>Polymer Chemistry</i> , 2015, 6, 302-310.	1.9	47
25	Synthesis and physicochemical characterization of a novel amphiphilic polylactic acid-hyperbranched polyglycerol conjugate for protein delivery. <i>Journal of Controlled Release</i> , 2009, 140, 141-147.	4.8	44
26	Water-soluble BODIPY-conjugated glycopolymers as fluorescent probes for live cell imaging. <i>Polymer Chemistry</i> , 2013, 4, 5743.	1.9	44
27	Structure-Activity Relationship of Membrane-Targeting Cationic Ligands on a Silver Nanoparticle Surface in an Antibiotic-Resistant Antibacterial and Antibiofilm Activity Assay. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13837-13848.	4.0	43
28	Cross-linked antifouling polysaccharide hydrogel coating as extracellular matrix mimics for wound healing. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2989-2999.	2.9	43
29	Chitosan bearing pendant cyclodextrin as a carrier for controlled protein release. <i>Carbohydrate Polymers</i> , 2009, 77, 394-401.	5.1	42
30	Oral glucose- and pH-sensitive nanocarriers for simulating insulin release in vivo. <i>Polymer Chemistry</i> , 2014, 5, 1999-2009.	1.9	42
31	Glucose- and temperature-responsive core-shell microgels for controlled insulin release. <i>RSC Advances</i> , 2012, 2, 9904.	1.7	41
32	Oxygen Self-Supplying Nanotherapeutic for Mitigation of Tissue Hypoxia and Enhanced Photodynamic Therapy of Bacterial Keratitis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33790-33801.	4.0	40
33	Glycopolymer micelles with reducible ionic cores for hepatocytes-targeting delivery of DOX. <i>International Journal of Pharmaceutics</i> , 2013, 441, 170-180.	2.6	39
34	A Water-Soluble Galactose-Decorated Cationic Photodynamic Therapy Agent Based on BODIPY to Selectively Eliminate Biofilm. <i>Biomacromolecules</i> , 2018, 19, 141-149.	2.6	39
35	Glycopolymer modified magnetic mesoporous silica nanoparticles for MR imaging and targeted drug delivery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 482, 98-108.	2.3	36
36	A glucose-sensitive block glycopolymer hydrogel based on dynamic boronic ester bonds for insulin delivery. <i>Carbohydrate Research</i> , 2017, 445, 32-39.	1.1	35

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37	Bioinspired Heteromultivalent Ligand-Decorated Nanotherapeutic for Enhanced Photothermal and Photodynamic Therapy of Antibiotic-Resistant Bacterial Pneumonia. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39648-39661.	4.0	35
38	β -Cyclodextrin grafting hyperbranched polyglycerols as carriers for nasal insulin delivery. <i>Carbohydrate Polymers</i> , 2011, 84, 1419-1425.	5.1	34
39	An Acid-Triggered Degradable and Fluorescent Nanoscale Drug Delivery System with Enhanced Cytotoxicity to Cancer Cells. <i>Biomacromolecules</i> , 2015, 16, 2444-2454.	2.6	34
40	Synthesis and pH/sugar/salt-sensitivity study of boronate crosslinked glycopolymer nanoparticles. <i>New Journal of Chemistry</i> , 2013, 37, 796.	1.4	33
41	Development of novel self-assembled poly(3-acrylamidophenylboronic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (acid)/poly of insulin. <i>Soft Matter</i> , 2012, 8, 765-773.	1.2	30
42	Phenylboronic acid-functionalized glycopolymeric nanoparticles for biomacromolecules delivery across nasal respiratory. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 82, 76-84.	2.0	30
43	Glycomimetic-Conjugated Photosensitizer for Specific <i>Pseudomonas aeruginosa</i> Recognition and Targeted Photodynamic Therapy. <i>Bioconjugate Chemistry</i> , 2018, 29, 3222-3230.	1.8	29
44	Glucosamine-carrying temperature- and pH-sensitive microgels: Preparation, characterization, and in vitro drug release studies. <i>Journal of Colloid and Interface Science</i> , 2008, 322, 333-341.	5.0	28
45	Glucose-sensitive polyelectrolyte nanocapsules based on layer-by-layer technique for protein drug delivery. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 121-129.	1.7	28
46	Multivalent polymer-Au nanocomposites with cationic surfaces displaying enhanced antimicrobial activity. <i>Polymer Chemistry</i> , 2014, 5, 3038-3044.	1.9	28
47	Polymeric PD-L1 blockade nanoparticles for cancer photothermal-immunotherapy. <i>Biomaterials</i> , 2022, 280, 121312.	5.7	28
48	Composite copolymer hybrid silver nanoparticles: preparation and characterization of antibacterial activity and cytotoxicity. <i>Polymer Chemistry</i> , 2015, 6, 772-779.	1.9	25
49	Polysaccharides-based polyelectrolyte nanoparticles as protein drugs delivery system. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3657-3670.	0.8	24
50	Hydrotropic Polymeric Mixed Micelles Based on Functional Hyperbranched Polyglycerol Copolymers as Hepatoma-Targeting Drug Delivery System. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 145-153.	1.6	23
51	Synthetic Fluorescent Nanoplatfrom Based on Benzoxaborole for Broad-Spectrum Inhibition of Bacterial Adhesion to Host Cells. <i>Chemistry of Materials</i> , 2018, 30, 8795-8803.	3.2	20
52	Boronate ester bond-based core-shell nanocarriers with pH response for anticancer drug delivery. <i>RSC Advances</i> , 2014, 4, 20208-20215.	1.7	19
53	Antibacterial amphiphiles based on β -polylysine: synthesis, mechanism of action, and cytotoxicity. <i>RSC Advances</i> , 2015, 5, 69325-69333.	1.7	19
54	A fluorescent nanobiocide based on ROS generation for eliminating pathogenic and multidrug-resistant bacteria. <i>Journal of Materials Chemistry B</i> , 2021, 9, 3689-3695.	2.9	18

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55	A bioinspired hierarchical nanoplatfom targeting and responding to intracellular pathogens to eradicate parasitic infections. <i>Biomaterials</i> , 2022, 280, 121309.	5.7	18
56	BODIPY-based macromolecular photosensitizer with selective recognition and enhanced anticancer efficiency. <i>RSC Advances</i> , 2014, 4, 19495.	1.7	17
57	In situ real-time tracing of hierarchical targeting nanostructures in drug resistant tumors using diffuse fluorescence tomography. <i>Chemical Science</i> , 2019, 10, 7878-7886.	3.7	17
58	Disulfide cross-linked biodegradable polyelectrolyte nanoparticles for the oral delivery of protein drugs. <i>New Journal of Chemistry</i> , 2009, 33, 1882.	1.4	16
59	Internalization Mechanism of Phenylboronic-Acid-Decorated Nanoplatfom for Enhanced Nasal Insulin Delivery. <i>ACS Applied Bio Materials</i> , 2020, 3, 2132-2139.	2.3	16
60	NIR-activated nanosystems with self-modulated bacteria targeting for enhanced biofilm eradication and caries prevention. <i>Bioactive Materials</i> , 2022, 13, 269-285.	8.6	16
61	Synergy between Clinical Microenvironment Targeted Nanoplatfom and Near-Infrared Light Irradiation for Managing <i>Pseudomonas aeruginosa</i> Infections. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38979-38989.	4.0	15
62	ROS-scavenging glyco-nanoplatfom for synergistic antibacterial and wound-healing therapy of bacterial keratitis. <i>Journal of Materials Chemistry B</i> , 2022, 10, 4575-4587.	2.9	15
63	Delivery of protein drugs using nanoparticles self-assembled from dextran sulfate and quaternized chitosan. <i>Journal of Controlled Release</i> , 2011, 152, e170-e172.	4.8	14
64	Therapeutic nanoplatfoms with bacteria-specific activation for directional transport of antibiotics. <i>Chemical Communications</i> , 2018, 54, 12754-12757.	2.2	14
65	A Targeted Photosensitizer Mediated by Visible Light for Efficient Therapy of Bacterial Keratitis. <i>Biomacromolecules</i> , 2021, 22, 3704-3717.	2.6	14
66	Hierarchical design of a polymeric nanovehicle for efficient tumor regression and imaging. <i>Nanoscale</i> , 2016, 8, 9318-9327.	2.8	13
67	Encapsulation of BSA in poly(lactic acid)-hyperbranched polyglycerol conjugate nanoparticles: preparation, characterization, and release kinetics. <i>Polymer Bulletin</i> , 2010, 65, 787-805.	1.7	12
68	Epithelium-Penetrable Nanoplatfom with Enhanced Antibiotic Internalization for Management of Bacterial Keratitis. <i>Biomacromolecules</i> , 2021, 22, 2020-2032.	2.6	12
69	A Nanoscale Polymeric Penetration Enhancer Based on Polylysine for Topical Delivery of Proteins and Peptides. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 3585-3593.	1.6	11
70	Bioadhesive glycosylated nanoformulations for extended trans-corneal drug delivery to suppress corneal neovascularization. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4190-4200.	2.9	11
71	A biodegradable and fluorescent nanovehicle with enhanced selective uptake by tumor cells. <i>Polymer Chemistry</i> , 2015, 6, 6529-6542.	1.9	10
72	The supramolecular hydrogel based on hyperbranched polyglycerol and dextran as a scaffold for living cells and drug delivery. <i>RSC Advances</i> , 2015, 5, 86730-86739.	1.7	10

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73	Synthesized of glucose-responsive nanogels labeled with fluorescence molecule based on phenylboronic acid by RAFT polymerization. Journal of Biomaterials Science, Polymer Edition, 2019, 30, 815-831.	1.9	10
74	Photosensitizer- AgNP composite with an ability to selectively recognize pathogen and enhanced photodynamic efficiency. New Journal of Chemistry, 2017, 41, 12371-12374.	1.4	8
75	Thiazolium-derivative functionalized silver nanocomposites for suppressing bacterial resistance and eradicating biofilms. New Journal of Chemistry, 2018, 42, 1316-1325.	1.4	8
76	Protonation-Activity Relationship of Bioinspired Ionizable Glycomimetics for the Growth Inhibition of Bacteria. ACS Applied Bio Materials, 2020, 3, 3868-3879.	2.3	8
77	Photoactive Silver Nanoagents for Backgroundless Monitoring and Precision Killing of Multidrug-Resistant Bacteria. Nanotheranostics, 2021, 5, 472-487.	2.7	8
78	A multi-targeted nanoconjugate for light-driven therapy of chronic wounds. Chemical Engineering Journal, 2021, 414, 128835.	6.6	8
79	Sulfhydryl functionalized graphene oxide for efficient preconcentration and photoablation of pathogenic bacteria. New Journal of Chemistry, 2019, 43, 917-925.	1.4	7
80	Synthesis of amphiphilic $A_{4}B_{4}$ star-shaped copolymers by mechanisms transformation combining with thiol-ene reaction. Journal of Polymer Science Part A, 2013, 51, 4572-4583.	2.5	6
81	A bio-inspired injectable hydrogel as a cell platform for real-time glycaemic regulation. Journal of Materials Chemistry B, 2020, 8, 4627-4641.	2.9	6
82	Nonabsorbable polysaccharide-functionalized polyethylenimine for inhibiting lipid absorption. Carbohydrate Polymers, 2018, 197, 57-65.	5.1	5
83	Peptide-Conjugated CuS Nanocomposites for NIR-Triggered Ablation of <i>Pseudomonas aeruginosa</i> Biofilm. ACS Applied Bio Materials, 2019, 2, 1614-1622.	2.3	4
84	New glycoconjugate polyacrylamide with water-solubility and additional activated groups: synthesis and characterization. Journal of Polymer Research, 2009, 16, 311-316.	1.2	3
85	An on-demand nanoplatform for enhanced elimination of drug-resistant bacteria. Biomaterials Science, 2020, 8, 6912-6919.	2.6	3
86	A Bioadhesive Nanoplatform Enhances the Permeation of Drugs Used to Treat Diabetic Macular Edema. ACS Applied Bio Materials, 2020, 3, 2314-2324.	2.3	3
87	Glycosylated Nanotherapeutics with β -Lactamase Reversible Competitive Inhibitory Activity Reinvigorates Antibiotics against Gram-Negative Bacteria. Biomacromolecules, 2021, 22, 2834-2849.	2.6	3
88	A Spectrum Correction Method Based on Optimizing Turbulence Intensity. Applied Sciences (Switzerland), 2022, 12, 66.	1.3	3
89	Virus-like-inspired nanoparticles facilitate bacterial internalization for enhanced eradication of drug-resistant pathogens. New Journal of Chemistry, 2022, 46, 14410-14420.	1.4	3
90	Toxicity of polymer-modified CuS nanoclusters on zebrafish embryo development. Journal of Applied Toxicology, 2022, 42, 295-304.	1.4	2

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91	A light-activated nanotherapeutic with broad-spectrum bacterial recognition to eliminate drug-resistant pathogens. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1364-1369.	2.9	1
92	A cell membrane repair protein-based nanoformulation with multiple actuators for scarless wound healing. <i>Journal of Materials Chemistry B</i> , 0, , .	2.9	1