

# Bin He

## List of Publications by Year in Descending Order

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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.

106  
papers

2,615  
citations

29  
h-index

46  
g-index

116  
ext. papers

3,283  
ext. citations

7.2  
avg, IF

5.27  
L-index

#	Paper	IF	Citations
106	Carrier-free nanodrugs with efficient drug delivery and release for cancer therapy: From intrinsic physicochemical properties to external modification. <i>Bioactive Materials</i> , <b>2022</b> , 8, 220-240	16.7	25
105	A Mg/polydopamine composite hydrogel for the acceleration of infected wound healing.. <i>Bioactive Materials</i> , <b>2022</b> , 15, 203-213	16.7	8
104	Copper-based metal-organic frameworks for biomedical applications.. <i>Advances in Colloid and Interface Science</i> , <b>2022</b> , 305, 102686	14.3	3
103	Two birds with one stone: copper metal-organic framework as a carrier of disulfiram prodrug for cancer therapy. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 612, 121351	6.5	4
102	Tetrahedral DNA nanostructures for effective treatment of cancer: advances and prospects. <i>Journal of Nanobiotechnology</i> , <b>2021</b> , 19, 412	9.4	9
101	Leveraging disulfiram to treat cancer: Mechanisms of action, delivery strategies, and treatment regimens.. <i>Biomaterials</i> , <b>2021</b> , 281, 121335	15.6	10
100	Polymer-directed supramolecular assembly of photosensitizers: Evocation of photothermal effect and highly efficient loading of disulfiram for chemo-phototherapy of cancer. <i>Applied Materials Today</i> , <b>2021</b> , 22, 100931	6.6	5
99	In-situ drug generation and controllable loading: rational design of copper-based nanosystems for chemo-photothermal cancer therapy. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 128222	14.7	21
98	Mitochondria-acting carrier-free nanoplatfrom self-assembled by $\beta$ -tocopheryl succinate carrying cisplatin for combinational tumor therapy. <i>International Journal of Energy Production and Management</i> , <b>2021</b> , 8, rbab029	5.3	3
97	Reversing Chemotherapy Resistance by a Synergy between Lysosomal pH-Activated Mitochondrial Drug Delivery and Erlotinib-Mediated Drug Efflux Inhibition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	10
96	inducing collagen regeneration of biodegradable polymer microspheres. <i>International Journal of Energy Production and Management</i> , <b>2021</b> , 8, rbab042	5.3	9
95	The aryl hydrocarbon receptor ligand ITE inhibits cell proliferation and migration and enhances sensitivity to drug-resistance in hepatocellular carcinoma. <i>Journal of Cellular Physiology</i> , <b>2021</b> , 236, 178-192	7.7	2
94	Redox-responsive polyethyleneimine/tetrahedron DNA/doxorubicin nanocomplexes for deep cell/tissue penetration to overcome multidrug resistance. <i>Journal of Controlled Release</i> , <b>2021</b> , 329, 36-49	11.7	20
93	injection of dual-delivery PEG based MMP-2 sensitive hydrogels for enhanced tumor penetration and chemo-immune combination therapy. <i>Nanoscale</i> , <b>2021</b> , 13, 9577-9589	7.7	13
92	Thermosensitive polymer hydrogel as a physical shield on colonic mucosa for colitis treatment. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 3874-3884	7.3	5
91	Redox-sensitive polymeric micelles with aggregation-induced emission for bioimaging and delivery of anticancer drugs. <i>Journal of Nanobiotechnology</i> , <b>2021</b> , 19, 14	9.4	20
90	A tumor extracellular pH-sensitive PD-L1 binding peptide nanoparticle for chemo-immunotherapy of cancer. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 4201-4210	7.3	6

89	PDT-Enhanced Ferroptosis by a Polymer Nanoparticle with pH-Activated Singlet Oxygen Generation and Superb Biocompatibility for Cancer Therapy. <i>Biomacromolecules</i> , <b>2021</b> , 22, 1167-1176	6.9	7
88	A combinational chemo-immune therapy using an enzyme-sensitive nanoplatform for dual-drug delivery to specific sites by cascade targeting. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	23
87	Reduction-sensitive polymeric micelles as amplifying oxidative stress vehicles for enhanced antitumor therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 203, 111733	6	8
86	A double-layer dura mater based on poly(caprolactone--lactide) film and polyurethane sponge: preparation, characterization, and biodegradation study. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 3863-3873	7.3	3
85	Effect of polymer architecture and hard/soft segment ratio on the surface morphology and mechanical properties of polyurethane films for potential orthodontic treatment. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 49363	2.9	3
84	Exogenous vitamin C triggered structural changes of redox-activated dual core-crosslinked biodegradable nanogels for boosting the antitumor efficiency. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 5109-5116	7.3	10
83	Human serum albumin-based doxorubicin prodrug nanoparticles with tumor pH-responsive aggregation-enhanced retention and reduced cardiotoxicity. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 3939-3948	7.3	34
82	ROS triggered cleavage of thioketal moiety to dissociate prodrug nanoparticles for chemotherapy. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 194, 111223	6	10
81	In vivo formation of Cu(DDC) <sub>2</sub> complex induced by nanomedicine for mesothelioma chemotherapy. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 3168-3172	8.1	5
80	Poly(ester-thioether) microspheres co-loaded with erlotinib and Docopheryl succinate for combinational therapy of non-small cell lung cancer. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 1728-1738	7.3	11
79	Novel polymeric micelles as enzyme-sensitive nuclear-targeted dual-functional drug delivery vehicles for enhanced 9-nitro-20(S)-camptothecin delivery and antitumor efficacy. <i>Nanoscale</i> , <b>2020</b> , 12, 5380-5396	7.7	29
78	Leveraging a polycationic polymer to direct tunable loading of an anticancer agent and photosensitizer with opposite charges for chemo-photodynamic therapy. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 1235-1244	7.3	12
77	Mitochondria-targeted tetrahedral DNA nanostructures for doxorubicin delivery and enhancement of apoptosis. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 492-503	7.3	33
76	High-drug-loading capacity of redox-activated biodegradable nanoplatform for active targeted delivery of chemotherapeutic drugs. <i>International Journal of Energy Production and Management</i> , <b>2020</b> , 7, 359-369	5.3	4
75	Small molecules-PEG amphiphilic conjugates as carriers for drug delivery: 1. the effect of molecular structures on drug encapsulation. <i>Journal of Drug Delivery Science and Technology</i> , <b>2020</b> , 60, 101997	4.5	1
74	The polymerization kinetics, oxidation-responsiveness, and in vitro anticancer efficacy of poly(ester-thioether)s. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 1005-1016	7.3	16
73	Polymeric nanoparticles responsive to intracellular ROS for anticancer drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 181, 252-260	6	25
72	Highly Stable, Coordinated Polymeric Nanoparticles Loading Copper(II) Diethyldithiocarbamate for Combinational Chemo/Chemodynamic Therapy of Cancer. <i>Biomacromolecules</i> , <b>2019</b> , 20, 2372-2383	6.9	58

71	Polymer Structure-Guided Self-Assisted Preparation of Poly(ester-thioether)-Based Hollow Porous Microspheres and Hierarchically Interconnected Microcages for Drug Release. <i>Macromolecular Bioscience</i> , <b>2019</b> , 19, e1900171	5.5	4
70	Confined crystallization morphology of poly( $\epsilon$ -caprolactone) block within poly( $\epsilon$ -caprolactone)/poly(L-lactide) copolymers. <i>Polymer International</i> , <b>2019</b> , 68, 1992-2003	3.3	1
69	A dithiocarbamate-based HO-responsive prodrug for combinational chemotherapy and oxidative stress amplification therapy. <i>Chemical Communications</i> , <b>2019</b> , 55, 13896-13899	5.8	29
68	Disclosing the crystallization behavior and morphology of poly( $\epsilon$ -caprolactone) within poly( $\epsilon$ -caprolactone)/poly(L-lactide) blends. <i>Polymer International</i> , <b>2018</b> , 67, 566-576	3.3	4
67	A reactive oxygen species-responsive prodrug micelle with efficient cellular uptake and excellent bioavailability. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 1076-1084	7.3	50
66	Synthesis, characterization, and property of biodegradable PEG-PCL-PLA terpolymers with miktoarm star and triblock architectures as drug carriers. <i>Journal of Biomaterials Applications</i> , <b>2018</b> , 32, 1139-1152	2.9	10
65	Redox/ATP switchable theranostic nanoparticles for real-time fluorescence monitoring of doxorubicin delivery. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 2089-2103	7.3	12
64	Control of MSC Differentiation by Tuning the Alkyl Chain Length of Phenylboronic Acid Based Low-molecular-weight Gelators. <i>Journal of Bionic Engineering</i> , <b>2018</b> , 15, 682-692	2.7	2
63	Effective combination therapy of percutaneous ethanol injection and chemotherapy based on injectable low molecular weight gels. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , <b>2018</b> , 46, 683-693	6.1	5
62	Hierarchical nanocomposites of graphene oxide and PEGylated protoporphyrin as carriers to load doxorubicin hydrochloride for trimodal synergistic therapy. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 4687-4696	7.3	33
61	Tumor-pH-Sensitive PLLA-Based Microsphere with Acid Cleavable Acetal Bonds on the Backbone for Efficient Localized Chemotherapy. <i>Biomacromolecules</i> , <b>2018</b> , 19, 3140-3148	6.9	37
60	Cinnamaldehyde-Based Poly(ester-thioacetal) To Generate Reactive Oxygen Species for Fabricating Reactive Oxygen Species-Responsive Nanoparticles. <i>Biomacromolecules</i> , <b>2018</b> , 19, 4658-4667	6.9	28
59	Highly stable RGD/disulfide bridge-bearing star-shaped biodegradable nanocarriers for enhancing drug-loading efficiency, rapid cellular uptake, and on-demand cargo release. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 8247-8268	7.3	12
58	Multifunctional nanoparticles self-assembled from polyethylenimine-based graft polymers as efficient anticancer drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 155, 118-127	6	14
57	Crystallization and morphological transition of poly(L-lactide)/poly( $\epsilon$ -caprolactone) diblock copolymers with different block length ratios. <i>RSC Advances</i> , <b>2017</b> , 7, 22515-22523	3.7	27
56	Fabrication of Polymeric Micelles with Aggregation-Induced Emission and Forster Resonance Energy Transfer for Anticancer Drug Delivery. <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 1944-1954	6.3	30
55	A ROS-responsive polymeric micelle with a $\beta$ -conjugated thioketal moiety for enhanced drug loading and efficient drug delivery. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 9176-9185	3.9	40
54	Substitution of Percutaneous Ethanol Injection with a Low Molecular Weight Peptide Gel Mimicking Chemoembolization for Cancer Therapy. <i>Nanotheranostics</i> , <b>2017</b> , 1, 313-325	5.6	5

53	A reactive oxygen species (ROS)-responsive low molecular weight gel co-loaded with doxorubicin and Zn(ii) phthalocyanine tetrasulfonic acid for combined chemo-photodynamic therapy. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 9157-9164	7.3	38
52	The effect of $\beta$ -cyclodextrin on poly(pseudo)rotaxane nanoparticles self-assembled by protoporphyrin modified poly(ethylene glycol) for anticancer drug delivery. <i>Carbohydrate Polymers</i> , <b>2017</b> , 174, 789-797	10.3	7
51	Multi-Activated Polymeric Micelles with Charge-Conversion and ROS-Controlled Drug Release for Efficient Cancer Therapy. <i>Journal of Biomedical Nanotechnology</i> , <b>2017</b> , 13, 946-959	4	7
50	Dual pH and temperature responsive hydrogels based on $\beta$ -cyclodextrin derivatives for atorvastatin delivery. <i>Carbohydrate Polymers</i> , <b>2016</b> , 136, 300-6	10.3	27
49	In situ injection of phenylboronic acid based low molecular weight gels for efficient chemotherapy. <i>Biomaterials</i> , <b>2016</b> , 105, 1-11	15.6	42
48	Arginine modified polymeric micelles as a novel drug delivery system with enhanced endocytosis efficiency. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 148, 181-192	6	17
47	Near infrared light responsive hybrid nanoparticles for synergistic therapy. <i>Biomaterials</i> , <b>2016</b> , 100, 76-90	15.6	38
46	Oral delivery of camptothecin using cyclodextrin/poly(anhydride) nanoparticles. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 506, 116-28	6.5	34
45	Polymeric Micelle-Based Nanomedicine <b>2016</b> , 99-116		1
44	Synthesis and Cytocompatibility of Biodegradable Poly (L-Lactide-r-5-Hydroxyl Trimethylene Carbonate) Copolymer. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2015</b> , 52, 218-225 <sup>2,2</sup>		4
43	Overcoming drug-resistant lung cancer by paclitaxel loaded dual-functional liposomes with mitochondria targeting and pH-response. <i>Biomaterials</i> , <b>2015</b> , 52, 126-39	15.6	209
42	Chain length effect on drug delivery of chrysin modified mPEG-BCL micelles. <i>RSC Advances</i> , <b>2015</b> , 5, 59014-59021 <sup>9</sup>	14.7	19
41	Characteristic of core materials in polymeric micelles effect on their micellar properties studied by experimental and dpd simulation methods. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 492, 152-60	6.5	25
40	Bone marrow mesenchymal stem cells promote osteosarcoma cell proliferation and invasion. <i>World Journal of Surgical Oncology</i> , <b>2015</b> , 13, 52	3.4	24
39	Terminal modification of polymeric micelles with $\beta$ -conjugated moieties for efficient anticancer drug delivery. <i>Biomaterials</i> , <b>2015</b> , 71, 1-10	15.6	100
38	The cytotoxic mechanisms of disulfiram and copper(ii) in cancer cells. <i>Toxicology Research</i> , <b>2015</b> , 4, 1439-1442	14.42	46
37	Framework effect of amphiphilic polyesters on their molecular movement and protein adsorption-resistance properties. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 125, 213-21	6	5
36	MicroRNA-155 promotes the proliferation and invasion abilities of colon cancer cells by targeting quaking. <i>Molecular Medicine Reports</i> , <b>2015</b> , 11, 2355-9	2.9	24

35	Functionalization of biodegradable hyperbranched poly( $\beta$ -malic acid) as a nanocarrier platform for anticancer drug delivery. <i>RSC Advances</i> , <b>2015</b> , 5, 13157-13165	3.7	11
34	Synthesis, characterization, and crystallization of biodegradable poly( $\epsilon$ -caprolactone)-poly(L-lactide) diblock copolymers. <i>E-Polymers</i> , <b>2015</b> , 15, 15-23	2.7	6
33	A facile strategy to generate polymeric nanoparticles for synergistic chemo-photodynamic therapy. <i>Chemical Communications</i> , <b>2015</b> , 51, 4271-4	5.8	60
32	Nanoparticles generated by PEG-Chrysin conjugates for efficient anticancer drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2014</b> , 87, 454-60	5.7	50
31	Cellular internalization of doxorubicin loaded star-shaped micelles with hydrophilic zwitterionic sulfobetaine segments. <i>Biomaterials</i> , <b>2014</b> , 35, 4517-24	15.6	56
30	Functional and biodegradable dendritic macromolecules with controlled architectures as nontoxic and efficient nanoscale gene vectors. <i>Biotechnology Advances</i> , <b>2014</b> , 32, 818-30	17.8	52
29	Self-assembly Polyrotaxanes Nanoparticles as Carriers for Anticancer Drug Methotrexate Delivery. <i>Nano-Micro Letters</i> , <b>2014</b> , 6, 108-115	19.5	27
28	Biodegradable polymeric nanoparticles based on amphiphilic principle: construction and application in drug delivery. <i>Science China Chemistry</i> , <b>2014</b> , 57, 461-475	7.9	37
27	Polymeric micelles with small lipophilic moieties for drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 116, 627-32	6	11
26	Polymeric micelles with citraconic amide as pH-sensitive bond in backbone for anticancer drug delivery. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 471, 28-36	6.5	45
25	Drug release of pH-sensitive poly(L-aspartate)-b-poly(ethylene glycol) micelles with POSS cores. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 463-470	4.9	56
24	Undifferentiated embryonal liver sarcoma in childhood: A case report. <i>Oncology Letters</i> , <b>2014</b> , 8, 1127-1132	1.3	2
23	ARGININE- AND ACRYLONITRILE-MODIFIED CHITOSAN NANOPARTICLES FOR ANTICANCER DRUG DELIVERY. <i>Nano</i> , <b>2014</b> , 09, 1450075	1.1	2
22	A rare case of primary chondrosarcoma arising from the sternum: A case report. <i>Oncology Letters</i> , <b>2014</b> , 8, 2233-2236	2.6	3
21	Intracellular Drug Delivery: Smart Nanovehicles Based on pH-Triggered Disassembly of Supramolecular Peptide-Amphiphiles for Efficient Intracellular Drug Delivery (Small 6/2014). <i>Small</i> , <b>2014</b> , 10, 1030-1030	11	3
20	Self-assembly Polyrotaxanes Nanoparticles as Carriers for Anticancer Drug Methotrexate Delivery <b>2014</b> , 6, 108		2
19	Design and self-assembly of amphiphilic peptide dendron-jacketed polysaccharide polymers into available nanomaterials. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 2235	4.9	16
18	Components Simulation of Viral Envelope via Amino Acid Modified Chitosans for Efficient Nucleic Acid Delivery: In Vitro and In Vivo Study. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 2691-2699	15.6	43



17	The anti-tumor efficiency of poly(L-glutamic acid) dendrimers with polyhedral oligomeric silsesquioxane cores. <i>Biomaterials</i> , <b>2013</b> , 34, 3658-66	15.6	99
16	Studies on the degradation of poly(L-lactide-r-trimethene carbonate) copolymers. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2013</b> , 31, 966-973	3.5	4
15	Synthesis of functionalizable and biodegradable polymers via ring-opening polymerization of 5-benzyloxy-trimethylene carbonate and $\epsilon$ -caprolactone. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 123, 2204-2210	2.9	8
14	Novel PLGGE graft polymeric micelles for doxorubicin delivery. <i>Science Bulletin</i> , <b>2012</b> , 57, 3994-4004		2
13	Superparamagnetic nano-composite scaffolds for promoting bone cell proliferation and defect repairation without a magnetic field. <i>RSC Advances</i> , <b>2012</b> , 2, 13007	3.7	52
12	Cooperative Hierarchical Self-Assembly of Peptide Dendrimers and Linear Polypeptides into Nanoarchitectures Mimicking Viral Capsids. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 3184-3187	3.6	26
11	Synthesis, characterization, and drug delivery of amphiphilic poly((lactic acid)-co-[(glycolic acid)-alt-(L-glutamic acid)]-g-poly(ethylene glycol)). <i>Macromolecular Research</i> , <b>2012</b> , 20, 250-258	1.9	9
10	Comparison of drug delivery properties of PEG-b-pdhpc micelles with different compositions. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2012</b> , 30, 387-396	3.5	13
9	Anti-tumor drug delivery of pH-sensitive poly(ethylene glycol)-poly(L-histidine)-poly(L-lactide) nanoparticles. <i>Journal of Controlled Release</i> , <b>2011</b> , 152, 49-56	11.7	140
8	Polypeptide dendrimers: Self-assembly and drug delivery. <i>Science China Chemistry</i> , <b>2011</b> , 54, 326-333	7.9	18
7	Functionalization of magnetic nanoparticles with peptide dendrimers. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 5464		54
6	A novel poly(L-glutamic acid) dendrimer based drug delivery system with both pH-sensitive and targeting functions. <i>Molecular Pharmaceutics</i> , <b>2010</b> , 7, 953-62	5.6	142
5	Study on the $\beta$ -cyclodextrin/poly(ethylene glycol) self-assembly supramolecular nanoparticles for drug delivery. <i>Science China Chemistry</i> , <b>2010</b> , 53, 495-501	7.9	10
4	New-generation biomedical materials: Peptide dendrimers and their application in biomedicine. <i>Science China Chemistry</i> , <b>2010</b> , 53, 458-478	7.9	42
3	In situ gelation of supramolecular hydrogel for anti-tumor drug delivery. <i>Macromolecular Bioscience</i> , <b>2009</b> , 9, 1169-75	5.5	19
2	Structure Inversion-Bridged Sequential Amino Acid Metabolism Disturbance Potentiates Photodynamic-Evoked Immunotherapy. <i>Advanced Functional Materials</i> , 2103394	15.6	6
1	P( LLA-co-PDO ) copolymers with random and block architectures: Synthesis and characterizations. <i>Journal of Applied Polymer Science</i> , 52410	2.9	1