Bin He

List of Publications by Year
in descending order

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110 papers	3,966 citations	81839 39 h-index	143943 57 g-index
116 all docs	116 docs citations	116 times ranked	4923 citing authors

#	Article	IF	Citations
1	Carrier-free nanodrugs with efficient drug delivery and release for cancer therapy: From intrinsic physicochemical properties to external modification. Bioactive Materials, 2022, 8, 220-240.	8.6	84
2	The management of diabetes mellitus by mangiferin: advances and prospects. Nanoscale, 2022, 14, 2119-2135.	2.8	22
3	Leveraging disulfiram to treat cancer: Mechanisms of action, delivery strategies, and treatment regimens. Biomaterials, 2022, 281, 121335.	5.7	57
4	Two birds with one stone: Copper metal-organic framework as a carrier of disulfiram prodrug for cancer therapy. International Journal of Pharmaceutics, 2022, 612, 121351.	2.6	23
5	Targeting drug delivery and efficient lysosomal escape for chemo-photodynamic cancer therapy by a peptide/DNA nanocomplex. Journal of Materials Chemistry B, 2022, 10, 438-449.	2.9	21
6	Targeted Polymeric Nanoparticles Based on Mangiferin for Enhanced Protection of Pancreatic Î²-Cells and Type 1 Diabetes Mellitus Efficacy. ACS Applied Materials & Interfaces, 2022, 14, 11092-11103.	4.0	15
7	Structure Inversionâ€Bridged Sequential Amino Acid Metabolism Disturbance Potentiates Photodynamicâ€Evoked Immunotherapy. Advanced Functional Materials, 2022, 32, .	7.8	35
8	P(<scp>LLAâ€coâ€PDO</scp>) copolymers with random and block architectures: Synthesis and characterizations. Journal of Applied Polymer Science, 2022, 139, .	1.3	7
9	A Mg2+/polydopamine composite hydrogel for the acceleration of infected wound healing. Bioactive Materials, 2022, 15, 203-213.	8.6	78
10	Copper-based metalâ€"organic frameworks for biomedical applications. Advances in Colloid and Interface Science, 2022, 305, 102686.	7.0	79
11	Gold nanorods/tetrahedral DNA composites for chemo-photothermal therapy. International Journal of Energy Production and Management, 2022, 9, .	1.9	10
12	Nanodrug delivery systems and cancer stem cells: From delivery carriers to treatment. Colloids and Surfaces B: Biointerfaces, 2022, 217, 112701.	2.5	6
13	The aryl hydrocarbon receptor ligand ITE inhibits cell proliferation and migration and enhances sensitivity toÂdrugâ€resistance in hepatocellular carcinoma. Journal of Cellular Physiology, 2021, 236, 178-192.	2.0	8
14	Redox-responsive polyethyleneimine/tetrahedron DNA/doxorubicin nanocomplexes for deep cell/tissue penetration to overcome multidrug resistance. Journal of Controlled Release, 2021, 329, 36-49.	4.8	52
15	In situ injection of dual-delivery PEG based MMP-2 sensitive hydrogels for enhanced tumor penetration and chemo-immune combination therapy. Nanoscale, 2021, 13, 9577-9589.	2.8	35
16	Thermosensitive polymer hydrogel as a physical shield on colonic mucosa for colitis treatment. Journal of Materials Chemistry B, 2021, 9, 3874-3884.	2.9	27
17	Redox-sensitive polymeric micelles with aggregation-induced emission for bioimaging and delivery of anticancer drugs. Journal of Nanobiotechnology, 2021, 19, 14.	4.2	46
18	A tumor extracellular pH-sensitive PD-L1 binding peptide nanoparticle for chemo-immunotherapy of cancer. Journal of Materials Chemistry B, 2021, 9, 4201-4210.	2.9	22

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19	PDT-Enhanced Ferroptosis by a Polymer Nanoparticle with pH-Activated Singlet Oxygen Generation and Superb Biocompatibility for Cancer Therapy. Biomacromolecules, 2021, 22, 1167-1176.	2.6	35
20	A combinational chemo-immune therapy using an enzyme-sensitive nanoplatform for dual-drug delivery to specific sites by cascade targeting. Science Advances, 2021, 7, .	4.7	81
21	Polymer-directed supramolecular assembly of photosensitizers: Evocation of photothermal effect and highly efficient loading of disulfiram for chemo-phototherapy of cancer. Applied Materials Today, 2021, 22, 100931.	2.3	10
22	In-situ drug generation and controllable loading: rational design of copper-based nanosystems for chemo-photothermal cancer therapy. Chemical Engineering Journal, 2021, 409, 128222.	6.6	49
23	Mitochondria-acting carrier-free nanoplatform self-assembled by Î±-tocopheryl succinate carrying cisplatin for combinational tumor therapy. International Journal of Energy Production and Management, 2021, 8, rbab029.	1.9	8
24	Reversing Chemotherapy Resistance by a Synergy between Lysosomal pH-Activated Mitochondrial Drug Delivery and Erlotinib-Mediated Drug Efflux Inhibition. ACS Applied Materials & Interfaces, 2021, 13, 29257-29268.	4.0	26
25	In vivoinducing collagen regeneration of biodegradable polymer microspheres. International Journal of Energy Production and Management, 2021, 8, rbab042.	1.9	20
26	Reduction-sensitive polymeric micelles as amplifying oxidative stress vehicles for enhanced antitumor therapy. Colloids and Surfaces B: Biointerfaces, 2021, 203, 111733.	2.5	19
27	A double-layer dura mater based on poly(caprolactone-co-lactide) film and polyurethane sponge: preparation, characterization, and biodegradation study. Journal of Materials Chemistry B, 2021, 9, 3863-3873.	2.9	7
28	Tetrahedral DNA nanostructures for effective treatment of cancer: advances and prospects. Journal of Nanobiotechnology, 2021, 19, 412.	4.2	43
29	Leveraging a polycationic polymer to direct tunable loading of an anticancer agent and photosensitizer with opposite charges for chemoâ€"photodynamic therapy. Journal of Materials Chemistry B, 2020, 8, 1235-1244.	2.9	16
30	Mitochondria-targeted tetrahedral DNA nanostructures for doxorubicin delivery and enhancement of apoptosis. Journal of Materials Chemistry B, 2020, 8, 492-503.	2.9	74
31	High-drug-loading capacity of redox-activated biodegradable nanoplatform for active targeted delivery of chemotherapeutic drugs. International Journal of Energy Production and Management, 2020, 7, 359-369.	1.9	8
32	Small molecules-PEG amphiphilic conjugates as carriers for drug delivery: 1. the effect of molecular structures on drug encapsulation. Journal of Drug Delivery Science and Technology, 2020, 60, 101997.	1.4	2
33	Effect of polymer architecture and hard/soft segment ratio on the surface morphology and mechanical properties of polyurethane films for potential orthodontic treatment. Journal of Applied Polymer Science, 2020, 137, 49363.	1.3	3
34	Exogenous vitamin C triggered structural changes of redox-activated dual core-crosslinked biodegradable nanogels for boosting the antitumor efficiency. Journal of Materials Chemistry B, 2020, 8, 5109-5116.	2.9	11
35	Human serum albumin-based doxorubicin prodrug nanoparticles with tumor pH-responsive aggregation-enhanced retention and reduced cardiotoxicity. Journal of Materials Chemistry B, 2020, 8, 3939-3948.	2.9	67
36	ROS triggered cleavage of thioketal moiety to dissociate prodrug nanoparticles for chemotherapy. Colloids and Surfaces B: Biointerfaces, 2020, 194, 111223.	2.5	23

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37	In vivo formation of Cu(DDC)2 complex induced by nanomedicine for mesothelioma chemotherapy. Chinese Chemical Letters, 2020, 31, 3168-3172.	4.8	13
38	Poly(ester-thioether) microspheres co-loaded with erlotinib and Î±-tocopheryl succinate for combinational therapy of non-small cell lung cancer. Journal of Materials Chemistry B, 2020, 8, 1728-1738.	2.9	22
39	Novel polymeric micelles as enzyme-sensitive nuclear-targeted dual-functional drug delivery vehicles for enhanced 9-nitro-20(S)-camptothecin delivery and antitumor efficacy. Nanoscale, 2020, 12, 5380-5396.	2.8	43
40	Polymer Structureâ€Guided Selfâ€Assisted Preparation of Poly(esterâ€thioether)â€Based Hollow Porous Microspheres and Hierarchically Interconnected Microcages for Drug Release. Macromolecular Bioscience, 2019, 19, e1900171.	2.1	6
41	Confined crystallization morphology of poly(Ïµâ€caprolactone) block within poly(Ïµâ€caprolactone)â€“poly(lâ€lactide) copolymers. Polymer International, 2019, 68, 1992-2003.	1.6	3
42	The polymerization kinetics, oxidation-responsiveness, and in vitro anticancer efficacy of poly(ester-thioether)s. Journal of Materials Chemistry B, 2019, 7, 1005-1016.	2.9	21
43	Polymeric nanoparticles responsive to intracellular ROS for anticancer drug delivery. Colloids and Surfaces B: Biointerfaces, 2019, 181, 252-260.	2.5	50
44	Highly Stable, Coordinated Polymeric Nanoparticles Loading Copper(II) Diethyldithiocarbamate for Combinational Chemo/Chemodynamic Therapy of Cancer. Biomacromolecules, 2019, 20, 2372-2383.	2.6	92
45	A dithiocarbamate-based H₂O₂-responsive prodrug for combinational chemotherapy and oxidative stress amplification therapy. Chemical Communications, 2019, 55, 13896-13899.	2.2	62
46	Disclosing the crystallization behavior and morphology of poly(Ïµâ€caprolactone) within poly(Ïµâ€caprolactone)/poly(<scp>l</scp>â€lactide) blends. Polymer International, 2018, 67, 566-576.	1.6	6
47	A reactive oxygen speciesâ€“responsive prodrug micelle with efficient cellular uptake and excellent bioavailability. Journal of Materials Chemistry B, 2018, 6, 1076-1084.	2.9	57
48	Synthesis, characterization, and property of biodegradable PEG-PCL-PLA terpolymers with miktoarm star and triblock architectures as drug carriers. Journal of Biomaterials Applications, 2018, 32, 1139-1152.	1.2	11
49	Redox/ATP switchable theranostic nanoparticles for real-time fluorescence monitoring of doxorubicin delivery. Journal of Materials Chemistry B, 2018, 6, 2089-2103.	2.9	17
50	Cinnamaldehyde-Based Poly(ester-thioacetal) To Generate Reactive Oxygen Species for Fabricating Reactive Oxygen Species-Responsive Nanoparticles. Biomacromolecules, 2018, 19, 4658-4667.	2.6	53
51	Highly stable RGD/disulfide bridge-bearing star-shaped biodegradable nanocarriers for enhancing drug-loading efficiency, rapid cellular uptake, and on-demand cargo release. International Journal of Nanomedicine, 2018, Volume 13, 8247-8268.	3.3	14
52	Control of MSC Differentiation by Tuning the Alkyl Chain Length of Phenylboroinc Acid Based Low-molecular-weight Gelators. Journal of Bionic Engineering, 2018, 15, 682-692.	2.7	4
53	Effective combination therapy of percutaneous ethanol injection and chemotherapy based on injectable low molecular weight gels. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 683-693.	1.9	6
54	Hierarchical nanocomposites of graphene oxide and PEGylated protoporphyrin as carriers to load doxorubicin hydrochloride for trimodal synergistic therapy. Journal of Materials Chemistry B, 2018, 6, 4687-4696.	2.9	37

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55	Tumor-pH-Sensitive PLLA-Based Microsphere with Acid Cleavable Acetal Bonds on the Backbone for Efficient Localized Chemotherapy. Biomacromolecules, 2018, 19, 3140-3148.	2.6	65
56	Multifunctional nanoparticles self-assembled from polyethylenimine-based graft polymers as efficient anticancer drug delivery. Colloids and Surfaces B: Biointerfaces, 2017, 155, 118-127.	2.5	19
57	Crystallization and morphological transition of poly(<scp>l</scp>-lactide)â€“poly(Îµ-caprolactone) diblock copolymers with different block length ratios. RSC Advances, 2017, 7, 22515-22523.	1.7	36
58	Fabrication of Polymeric Micelles with Aggregation-Induced Emission and Forster Resonance Energy Transfer for Anticancer Drug Delivery. Bioconjugate Chemistry, 2017, 28, 1944-1954.	1.8	36
59	A ROS-responsive polymeric micelle with a Ï€-conjugated thioketal moiety for enhanced drug loading and efficient drug delivery. Organic and Biomolecular Chemistry, 2017, 15, 9176-9185.	1.5	57
60	A reactive oxygen species (ROS)-responsive low molecular weight gel co-loaded with doxorubicin and Zn(<scp>ii</scp>) phthalocyanine tetrasulfonic acid for combined chemo-photodynamic therapy. Journal of Materials Chemistry B, 2017, 5, 9157-9164.	2.9	50
61	The effect of Î±-cyclodextrin on poly(pseudo)rotaxane nanoparticles self-assembled by protoporphyrin modified poly(ethylene glycol) for anticancer drug delivery. Carbohydrate Polymers, 2017, 174, 789-797.	5.1	13
62	Substitution of Percutaneous Ethanol Injection with a Low Molecular Weight Peptide Gel Mimicking Chemoembolization for Cancer Therapy. Nanotheranostics, 2017, 1, 313-325.	2.7	8
63	Multi-Activated Polymeric Micelles with Charge-Conversion and ROS-Controlled Drug Release for Efficient Cancer Therapy. Journal of Biomedical Nanotechnology, 2017, 13, 946-959.	0.5	7
64	Near infrared light responsive hybrid nanoparticles for synergistic therapy. Biomaterials, 2016, 100, 76-90.	5.7	51
65	Oral delivery of camptothecin using cyclodextrin/poly(anhydride) nanoparticles. International Journal of Pharmaceutics, 2016, 506, 116-128.	2.6	38
66	In situ injection of phenylboronic acid based low molecular weight gels for efficient chemotherapy. Biomaterials, 2016, 105, 1-11.	5.7	53
67	Arginine modified polymeric micelles as a novel drug delivery system with enhanced endocytosis efficiency. Colloids and Surfaces B: Biointerfaces, 2016, 148, 181-192.	2.5	18
68	Dual pH and temperature responsive hydrogels based on Î²-cyclodextrin derivatives for atorvastatin delivery. Carbohydrate Polymers, 2016, 136, 300-306.	5.1	41
69	MicroRNA-155 promotes the proliferation and invasion abilities of colon cancer cells by targeting quaking. Molecular Medicine Reports, 2015, 11, 2355-2359.	1.1	39
70	Functionalization of biodegradable hyperbranched poly(Î±,Î²-malic acid) as a nanocarrier platform for anticancer drug delivery. RSC Advances, 2015, 5, 13157-13165.	1.7	13
71	Synthesis, characterization, and crystallization of biodegradable poly(Îµ-caprolactone)-poly(L-lactide) diblock copolymers. E-Polymers, 2015, 15, 15-23.	1.3	6
72	A facile strategy to generate polymeric nanoparticles for synergistic chemo-photodynamic therapy. Chemical Communications, 2015, 51, 4271-4274.	2.2	61

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73	Synthesis and Cytocompatibility of Biodegradable Poly (L-Lactide-r-5-Hydroxyl Trimethylene Carbonate) Copolymer. Journal of Macromolecular Science - Pure and Applied Chemistry, 2015, 52, 218-225.	1.2	4
74	Overcoming drug-resistant lung cancer by paclitaxel loaded dual-functional liposomes with mitochondria targeting and pH-response. Biomaterials, 2015, 52, 126-139.	5.7	261
75	Chain length effect on drug delivery of chrysin modified mPEGâ€"PCL micelles. RSC Advances, 2015, 5, 59014-59021.	1.7	21
76	Characteristic of core materials in polymeric micelles effect on their micellar properties studied by experimental and dpd simulation methods. International Journal of Pharmaceutics, 2015, 492, 152-160.	2.6	28
77	Bone marrow mesenchymal stem cells promote osteosarcoma cell proliferation and invasion. World Journal of Surgical Oncology, 2015, 13, 52.	0.8	31
78	Terminal modification of polymeric micelles with Ï€-conjugated moieties for efficient anticancer drug delivery. Biomaterials, 2015, 71, 1-10.	5.7	125
79	The cytotoxic mechanisms of disulfiram and copper(ii) in cancer cells. Toxicology Research, 2015, 4, 1439-1442.	0.9	66
80	Framework effect of amphiphilic polyesters on their molecular movement and protein adsorption-resistance properties. Colloids and Surfaces B: Biointerfaces, 2015, 125, 213-221.	2.5	6
81	ARGININE- AND ACRYLONITRILE-MODIFIED CHITOSAN NANOPARTICLES FOR ANTICANCER DRUG DELIVERY. Nano, 2014, 09, 1450075.	0.5	2
82	A rare case of primary chondrosarcoma arising from the sternum: A case report. Oncology Letters, 2014, 8, 2233-2236.	0.8	5
83	Intracellular Drug Delivery: Smart Nanovehicles Based on pH-Triggered Disassembly of Supramolecular Peptide-Amphiphiles for Efficient Intracellular Drug Delivery (Small 6/2014). Small, 2014, 10, 1030-1030.	5.2	3
84	Nanoparticles generated by PEG-Chrysin conjugates for efficient anticancer drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 87, 454-460.	2.0	56
85	Cellular internalization of doxorubicin loaded star-shaped micelles with hydrophilic zwitterionic sulfobetaine segments. Biomaterials, 2014, 35, 4517-4524.	5.7	61
86	Functional and biodegradable dendritic macromolecules with controlled architectures as nontoxic and efficient nanoscale gene vectors. Biotechnology Advances, 2014, 32, 818-830.	6.0	58
87	Self-assembly Polyrotaxanes Nanoparticles as Carriers for Anticancer Drug Methotrexate Delivery. Nano-Micro Letters, 2014, 6, 108-115.	14.4	32
88	Biodegradable polymeric nanoparticles based on amphiphilic principle: construction and application in drug delivery. Science China Chemistry, 2014, 57, 461-475.	4.2	45
89	Polymeric micelles with small lipophilic moieties for drug delivery. Colloids and Surfaces B: Biointerfaces, 2014, 116, 627-632.	2.5	12
90	Polymeric micelles with citraconic amide as pH-sensitive bond in backbone for anticancer drug delivery. International Journal of Pharmaceutics, 2014, 471, 28-36.	2.6	57

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91	Drug release of pH-sensitive poly(<scp>l</scp>-aspartate)-b-poly(ethylene glycol) micelles with POSS cores. Polymer Chemistry, 2014, 5, 463-470.	1.9	63
92	Undifferentiated embryonal liver sarcoma in childhood: A case report. Oncology Letters, 2014, 8, 1127-1132.	0.8	2
93	Self-assembly Polyrotaxanes Nanoparticles as Carriers for Anticancer Drug Methotrexate Delivery. Nano-Micro Letters, 2014, 6, 108.	14.4	2
94	Design and self-assembly of amphiphilic peptide dendron-jacketed polysaccharide polymers into available nanomaterials. Polymer Chemistry, 2013, 4, 2235.	1.9	16
95	Components Simulation of Viral Envelope via Amino Acid Modified Chitosans for Efficient Nucleic Acid Delivery: In Vitro and In Vivo Study. Advanced Functional Materials, 2013, 23, 2691-2699.	7.8	47
96	The anti-tumor efficiency of poly(L-glutamic acid) dendrimers with polyhedral oligomeric silsesquioxane cores. Biomaterials, 2013, 34, 3658-3666.	5.7	109
97	Studies on the degradation of poly(L-lactide-r-trimethene carbonate) copolymers. Chinese Journal of Polymer Science (English Edition), 2013, 31, 966-973.	2.0	5
98	Novel PLGGE graft polymeric micelles for doxorubicin delivery. Science Bulletin, 2012, 57, 3994-4004.	1.7	2
99	Superparamagnetic nano-composite scaffolds for promoting bone cell proliferation and defect reparation without a magnetic field. RSC Advances, 2012, 2, 13007.	1.7	56
100	Synthesis, characterization, and drug delivery of amphiphilic poly{(lactic acid)-co-[(glycolic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Tc	1.0	9
101	Comparison of drug delivery properties of PEG-b-pdhpc micelles with different compositions. Chinese Journal of Polymer Science (English Edition), 2012, 30, 387-396.	2.0	13
102	Synthesis of functionalizable and biodegradable polymers via ringâ€opening polymerization of 5â€benzyloxyâ€trimethylene carbonate and Îµâ€caprolactone. Journal of Applied Polymer Science, 2012, 123, 2204-2210.	1.3	8
103	Functionalization of magnetic nanoparticles with peptide dendrimers. Journal of Materials Chemistry, 2011, 21, 5464.	6.7	61
104	Anti-tumor drug delivery of pH-sensitive poly(ethylene glycol)-poly(L-histidine-)-poly(L-lactide) nanoparticles. Journal of Controlled Release, 2011, 152, 49-56.	4.8	150
105	Polypeptide dendrimers: Self-assembly and drug delivery. Science China Chemistry, 2011, 54, 326-333.	4.2	22
106	A Novel Poly(<scp>l</scp>-glutamic acid) Dendrimer Based Drug Delivery System with Both pH-Sensitive and Targeting Functions. Molecular Pharmaceutics, 2010, 7, 953-962.	2.3	155
107	Study on the Î±-cyclodextrin/poly(ethylene glycol) self-assembly supramolecular nanoparticles for drug delivery. Science China Chemistry, 2010, 53, 495-501.	4.2	11
108	New-generation biomedical materials: Peptide dendrimers and their application in biomedicine. Science China Chemistry, 2010, 53, 458-478.	4.2	47

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109	The polymeric crystallinity effect on the responses of bone marrow stromal cells. E-Polymers, 2009, 9, .	1.3	3
110	In situ Gelation of Supramolecular Hydrogel for Antiâ€Tumor Drug Delivery. Macromolecular Bioscience, 2009, 9, 1169-1175.	2.1	21