Jianzhong Du

List of Publications by Citations

129 papers	8,448 citations	48 h-index	90 g-index
143 ext. papers	9,602 ext. citations	8.5 avg, IF	6.69 L-index

#	Paper	IF	Citations
129	Diverse Applications of Nanomedicine. *ACS Nano*, **2017**, 11, 2313-2381	16.7	714
128	pH-sensitive vesicles based on a biocompatible zwitterionic diblock copolymer. *Journal of the American Chemical Society*, **2005**, 127, 17982-3	16.4	530
127	Advances and challenges in smart and functional polymer vesicles. *Soft Matter*, **2009**, 5, 3544	3.6	477
126	Anisotropic particles with patchy, multicompartment and Janus architectures: preparation and application. *Chemical Society Reviews*, **2011**, 40, 2402-16	58.5	440
125	Biomimetic pH Sensitive Polymersomes for Efficient DNA Encapsulation and Delivery. *Advanced Materials*, **2007**, 19, 4238-4243	24	390
124	pH-responsive vesicles based on a hydrolytically self-cross-linkable copolymer. *Journal of the American Chemical Society*, **2005**, 127, 12800-1	16.4	294
123	Polymer vesicles: Mechanism, preparation, application, and responsive behavior. *Progress in Polymer Science*, **2017**, 64, 1-22	29.6	213
122	Organic/inorganic hybrid vesicles based on a reactive block copolymer. *Journal of the American Chemical Society*, **2003**, 125, 14710-1	16.4	208
121	Hydrogel scaffolds for differentiation of adipose-derived stem cells. *Chemical Society Reviews*, **2017**, 46, 6255-6275	58.5	156
120	Organic-inorganic hybrid nanoparticles with a complex hollow structure. *Angewandte Chemie - International Edition*, **2004**, 43, 5084-7	16.4	150
119	Non-cytotoxic polymer vesicles for rapid and efficient intracellular delivery. *Faraday Discussions*, **2008**, 139, 143-59; discussion 213-28, 419-20	3.6	148
118	Antibacterial polymeric nanostructures for biomedical applications. *Chemical Communications*, **2014**, 50, 14482-93	5.8	142
117	Ultrasound and pH dually responsive polymer vesicles for anticancer drug delivery. *Scientific Reports*, **2013**, 3, 2162	4.9	138
116	Synthesis, Self-Assembly, and Biomedical Applications of Antimicrobial Peptide-Polymer Conjugates. *Biomacromolecules*, **2018**, 19, 1701-1720	6.9	134
115	Preparation of Organic/Inorganic Hybrid Hollow Particles Based on Gelation of Polymer Vesicles. *Macromolecules*, **2004**, 37, 5710-5716	5.5	129
114	Antibacterial Polypeptide-Grafted Chitosan-Based Nanocapsules As an "Armed" Carrier of Anticancer and Antiepileptic Drugs.. *ACS Macro Letters*, **2013**, 2, 1021-1025	6.6	127
113	pH-Sensitive Block Copolymer Vesicles with Variable Trigger Points for Drug Delivery. *Macromolecules*, **2012**, 45, 8275-8283	5.5	113

112	New folate-functionalized biocompatible block copolymer micelles as potential anti-cancer drug delivery systems. *Polymer*, **2006**, 47, 2946-2955	3.9	112
111	A superparamagnetic polymersome with extremely high T relaxivity for MRI and cancer-targeted drug delivery. *Biomaterials*, **2017**, 114, 23-33	15.6	108
110	Sugar-Breathing Glycopolymersomes for Regulating Glucose Level. *Journal of the American Chemical Society*, **2017**, 139, 7640-7647	16.4	107
109	Multifunctional homopolymer vesicles for facile immobilization of gold nanoparticles and effective water remediation. *ACS Nano*, **2014**, 8, 5022-31	16.7	101
108	Self-assembly of hydrophilic homopolymers: a matter of RAFT end groups. *Small*, **2011**, 7, 2070-80	11	98
107	PCL Star Polymer, PCL-PS Heteroarm Star Polymer by ATRP, and Core-Carboxylated PS Star Polymer Thereof. *Macromolecules*, **2004**, 37, 3588-3594	5.5	97
106	Atom-Transfer Radical Polymerization of a Reactive Monomer: 3-(Trimethoxysilyl)propyl Methacrylate. *Macromolecules*, **2004**, 37, 6322-6328	5.5	91
105	Probing into Homopolymer Self-Assembly: How Does Hydrogen Bonding Influence Morphology?. *Macromolecules*, **2013**, 46, 194-203	5.5	89
104	Efficient encapsulation of plasmid DNA in pH-sensitive PMPC-PDPA polymersomes: study of the effect of PDPA block length on copolymer-DNA binding affinity. *Macromolecular Bioscience*, **2010**, 10, 513-30	5.5	88
103	An Asymmetrical Polymer Vesicle Strategy for Significantly Improving T1 MRI Sensitivity and Cancer-Targeted Drug Delivery. *Macromolecules*, **2015**, 48, 739-749	5.5	87
102	Preparation and Antibacterial Mechanism Insight of Polypeptide-Based Micelles with Excellent Antibacterial Activities. *Biomacromolecules*, **2016**, 17, 3922-3930	6.9	81
101	Dual Corona Vesicles with Intrinsic Antibacterial and Enhanced Antibiotic Delivery Capabilities for Effective Treatment of Biofilm-Induced Periodontitis. *ACS Nano*, **2019**, 13, 13645-13657	16.7	79
100	Template-free fabrication of nitrogen-doped hollow carbon spheres for high-performance supercapacitors based on a scalable homopolymer vesicle. *Journal of Materials Chemistry A*, **2016**, 4, 12088-12097	13	78
99	Polymer Vesicles: Modular Platforms for Cancer Theranostics. *Advanced Materials*, **2018**, 30, e1705674	24	76
98	Asymmetrical polymer vesicles with a "stealthy" outer corona and an endosomal-escape-accelerating inner corona for efficient intracellular anticancer drug delivery. *Biomacromolecules*, **2014**, 15, 3072-82	6.9	75
97	Multifunctional polymer vesicles for ultrasensitive magnetic resonance imaging and drug delivery. *Journal of Materials Chemistry*, **2012**, 22, 12329		75
96	Superparamagnetic nanoparticles for biomedical applications. *Journal of Materials Chemistry B*, **2020**, 8, 354-367	7.3	75
95	Multifunctional biocompatible and biodegradable folic acid conjugated poly(ε-caprolactone)-polypeptide copolymer vesicles with excellent antibacterial activities. *Bioconjugate Chemistry*, **2015**, 26, 725-34	6.3	71

94	Water-dispersible and biodegradable polymer micelles with good antibacterial efficacy. *Chemical Communications*, **2012**, 48, 6857-9	5.8	70
93	Preparation of biocompatible zwitterionic block copolymer vesicles by direct dissolution in water and subsequent silicification within their membranes. *Langmuir*, **2009**, 25, 9564-70	4	69
92	Preparation and mechanism insight of nuclear envelope-like polymer vesicles for facile loading of biomacromolecules and enhanced biocatalytic activity. *ACS Nano*, **2014**, 8, 6644-54	16.7	65
91	Theranostic vesicles based on bovine serum albumin and poly(ethylene glycol)-block-poly(L-lactic-co-glycolic acid) for magnetic resonance imaging and anticancer drug delivery. *Biomacromolecules*, **2014**, 15, 1586-92	6.9	64
90	Polymer/TiO2 Hybrid Nanoparticles with Highly Effective UV-Screening but Eliminated Photocatalytic Activity. *Macromolecules*, **2013**, 46, 375-383	5.5	64
89	Patchy multi-compartment micelles are formed by direct dissolution of an ABC triblock copolymer in water. *Soft Matter*, **2010**, 6, 4851	3.6	60
88	Reduction of 4-nitrophenol catalyzed by silver nanoparticles supported on polymer micelles and vesicles. *RSC Advances*, **2014**, 4, 16425-16428	3.7	59
87	Preparation of poly(ethylene oxide) star polymers and poly(ethylene oxide)–polystyrene heteroarm star polymers by atom transfer radical polymerization. *Journal of Polymer Science Part A*, **2004**, 42, 2263-2271	2.5	55
86	Dually Gated Polymersomes for Gene Delivery. *Nano Letters*, **2018**, 18, 5562-5568	11.5	53
85	Antibacterial vesicles by direct dissolution of a block copolymer in water. *Polymer Chemistry*, **2013**, 4, 255-259	4.9	53
84	pH-Responsive Vesicles from a Schizophrenic Diblock Copolymer. *Macromolecular Chemistry and Physics*, **2010**, 211, 1530-1537	2.6	53
83	Efficient Removal of Polycyclic Aromatic Hydrocarbons, Dyes, and Heavy Metal Ions by a Homopolymer Vesicle. *ACS Applied Materials & Interfaces*, **2018**, 10, 713-722	9.5	50
82	Preparation of primary amine-based block copolymer vesicles by direct dissolution in water and subsequent stabilization by sol-gel chemistry. *Langmuir*, **2008**, 24, 13710-6	4	49
81	Ring-Opening Polymerization of N-Carboxyanhydride-Induced Self-Assembly for Fabricating Biodegradable Polymer Vesicles. *ACS Macro Letters*, **2019**, 8, 1216-1221	6.6	46
80	Hairy Nanospheres by Gelation of Reactive Block Copolymer Micelles. *Macromolecular Rapid Communications*, **2005**, 26, 491-494	4.8	46
79	Synthesis and Mechanism Insight of a Peptide-Grafted Hyperbranched Polymer Nanosheet with Weak Positive Charges but Excellent Intrinsically Antibacterial Efficacy. *Biomacromolecules*, **2016**, 17, 2080-6	6.9	46
78	Ultrasound-responsive polymersomes capable of endosomal escape for efficient cancer therapy. *Journal of Controlled Release*, **2020**, 322, 81-94	11.7	44
77	Preparation of water-dispersible silver-decorated polymer vesicles and micelles with excellent antibacterial efficacy. *Polymer Chemistry*, **2012**, 3, 2217	4.9	44

76	Organic/inorganic composite membranes based on poly(L-lactic-co-glycolic acid) and mesoporous silica for effective bone tissue engineering. *ACS Applied Materials & Interfaces*, **2014**, 6, 20895-903	9.5	43
75	EpCAM-Antibody-Labeled Noncytotoxic Polymer Vesicles for Cancer Stem Cells-Targeted Delivery of Anticancer Drug and siRNA. *Biomacromolecules*, **2015**, 16, 1695-705	6.9	43
74	Recent advances in magnetic hydrogels. *Polymer International*, **2016**, 65, 1365-1372	3.3	42
73	Silver-decorated biodegradable polymer vesicles with excellent antibacterial efficacy. *Polymer Chemistry*, **2014**, 5, 405-411	4.9	41
72	Perforated Block Copolymer Vesicles with a Highly Folded Membrane. *Macromolecules*, **2007**, 40, 4389-4392	5.5	41
71	Highly Effective Antibacterial Vesicles Based on Peptide-Mimetic Alternating Copolymers for Bone Repair. *Biomacromolecules*, **2017**, 18, 4154-4162	6.9	40
70	How does a tiny terminal alkynyl end group drive fully hydrophilic homopolymers to self-assemble into multicompartment vesicles and flower-like complex particles?. *Polymer Chemistry*, **2014**, 5, 5077-5088	4.9	40
69	Antibacterial high-genus polymer vesicle as an "armed" drug carrier. *Journal of Materials Chemistry B*, **2013**, 1, 5496-5504	7.3	39
68	Tetrapod Polymersomes. *Journal of the American Chemical Society*, **2020**, 142, 6569-6577	16.4	38
67	Rationally Separating the Corona and Membrane Functions of Polymer Vesicles for Enhanced T□ MRI and Drug Delivery. *ACS Applied Materials & Interfaces*, **2015**, 7, 14043-52	9.5	38
66	Kinetics of pH-Induced formation and dissociation of polymeric vesicles assembled from a water-soluble zwitterionic diblock copolymer. *Langmuir*, **2008**, 24, 10019-25	4	38
65	Nanobowls with controlled openings and interior holes driven by the synergy of hydrogen bonding and □□nteraction. *Chemical Science*, **2019**, 10, 657-664	9.4	36
64	Polymer/TiO□hybrid vesicles for excellent UV screening and effective encapsulation of antioxidant agents. *ACS Applied Materials & Interfaces*, **2014**, 6, 13535-41	9.5	36
63	Precise Synthesis of ABCDE Star Quintopolymers by Combination of Controlled Polymerization and Azide□Alkyne Cycloaddition Reaction. *Macromolecules*, **2012**, 45, 7429-7439	5.5	36
62	Acid and reduction dually cleavable amphiphilic comb-like copolymer micelles for controlled drug delivery. *Polymer Chemistry*, **2013**, 4, 3398	4.9	36
61	Principles and Characteristics of Polymerization-Induced Self-Assembly with Various Polymerization Techniques. *CCS Chemistry*, **2021**, 3, 2104-2125	7.2	31
60	Homopolymer vesicles with a gradient bilayer membrane as drug carriers. *Chemical Communications*, **2013**, 49, 11521-3	5.8	29
59	Combined Antioxidant-Antibiotic Treatment for Effectively Healing Infected Diabetic Wounds Based on Polymer Vesicles. *ACS Nano*, **2021**, 15, 9027-9038	16.7	29

58	Rationally Engineering Dual Missions in One Statistical Copolymer Nanocapsule: Bacterial Inhibition and Polycyclic Aromatic Hydrocarbon Capturing. *ACS Macro Letters*, **2015**, 4, 511-515	6.6	28
57	Ultrafine silver nanoparticles with excellent antibacterial efficacy prepared by a handover of vesicle templating to micelle stabilization. *Polymer Chemistry*, **2013**, 4, 3448	4.9	28
56	Shell cross-linked micelles as cationic templates for the preparation of silica-coated nanoparticles: strategies for controlling the mean particle diameter. *Macromolecular Rapid Communications*, **2009**, 30, 464-8	4.8	27
55	Organic–Inorganic Hybrid Nanoparticles with a Complex Hollow Structure. *Angewandte Chemie*, **2004**, 116, 5194-5197	3.6	26
54	Revisiting the time for removing the unloaded drug by dialysis method based on a biocompatible and biodegradable polymer vesicle. *Polymer*, **2012**, 53, 2068-2073	3.9	25
53	Polymersome-hydrogel composites with combined quick and long-term antibacterial activities. *Journal of Materials Chemistry B*, **2018**, 6, 6311-6321	7.3	25
52	Controlling blood sugar levels with a glycopolymersome. *Materials Horizons*, **2019**, 6, 2047-2055	14.4	23
51	Toward a new lower limit for the minimum scattering vector on the very small angle neutron scattering spectrometer at Laboratoire Léon Brillouin. *Journal of Applied Crystallography*, **2008**, 41, 161-166	3.8	23
50	Gelation Inside Block Copolymer Aggregates and Organic/Inorganic Nanohybrids. *Macromolecular Rapid Communications*, **2006**, 27, 741-750	4.8	21
49	Preparation of water dispersible poly(methyl methacrylate)-based vesicles for facile persistent antibacterial applications. *Chinese Journal of Polymer Science (English Edition)*, **2016**, 34, 44-51	3.5	20
48	Design principles, synthesis and biomedical applications of polymer vesicles with inhomogeneous membranes. *Journal of Controlled Release*, **2020**, 326, 365-386	11.7	20
47	Size and shape affects the antimicrobial activity of quaternized nanoparticles. *Journal of Polymer Science Part A*, **2019**, 57, 255-259	2.5	20
46	Enzyme activated photodynamic therapy for methicillin-resistant Staphylococcus aureus infection both inv itro and in vivo. *Journal of Photochemistry and Photobiology B: Biology*, **2014**, 136, 72-80	6.7	19
45	Ultrasound-responsive polymer-based drug delivery systems. *Drug Delivery and Translational Research*, **2021**, 11, 1323-1339	6.2	18
44	pH-Responsive Chiral Nanostructures. *Australian Journal of Chemistry*, **2011**, 64, 1041	1.2	17
43	Effective treatment of drug-resistant lung cancer via a nanogel capable of reactivating cisplatin and enhancing early apoptosis. *Biomaterials*, **2020**, 257, 120252	15.6	16
42	Bone-targeting polymer vesicles for simultaneous imaging and effective malignant bone tumor treatment. *Biomaterials*, **2021**, 269, 120345	15.6	16
41	Disclosing the nature of thermo-responsiveness of poly(N-isopropyl acrylamide)-based polymeric micelles: aggregation or fusion?. *Chemical Communications*, **2015**, 51, 11198-201	5.8	15

40	Silkworm cocoons by cylinders self-assembled from H-shaped alternating polymer brushes. *Polymer Chemistry*, **2015**, 6, 886-890	4.9	15
39	Polymer nanodisks by collapse of nanocapsules. *Science China Chemistry*, **2018**, 61, 569-575	7.9	15
38	On the origin and regulation of ultrasound responsiveness of block copolymer nanoparticles. *Science China Chemistry*, **2020**, 63, 272-281	7.9	15
37	Challenges and Perspective on Ring-Opening Polymerization-Induced Self-Assembly. *Acta Chimica Sinica*, **2020**, 78, 719	3.3	14
36	Advances and Prospects of Polymeric Particles for the Treatment of Bacterial Biofilms. *ACS Applied Polymer Materials*, **2021**, 3, 2218-2232	4.3	14
35	Evolution of diverse higher-order membrane structures of block copolymer vesicles. *Polymer Chemistry*, **2019**, 10, 3020-3029	4.9	13
34	Polymersome Wound Dressing Spray Capable of Bacterial Inhibition and H2S Generation for Complete Diabetic Wound Healing. *Chemistry of Materials*, **2021**, 33, 7972-7985	9.6	13
33	A multifunctional azobenzene-based polymeric adsorbent for effective water remediation. *Scientific Reports*, **2014**, 4, 7296	4.9	12
32	Plasmonic vesicles with tailored collective properties. *Nanoscale*, **2018**, 10, 17354-17361	7.7	12
31	Two Principles for Polymersomes with Ultrahigh Biomacromolecular Loading Efficiencies: Acid-Induced Adsorption and Affinity-Enhanced Attraction. *Macromolecules*, **2020**, 53, 3978-3993	5.5	11
30	Light-triggered □n□ff□switching of fluorescence based on a naphthopyran-containing compound polymer micelle. *Polymer Chemistry*, **2016**, 7, 3444-3450	4.9	11
29	Renoprotective Angiographic Polymersomes. *Advanced Functional Materials*, **2021**, 31, 2007330	15.6	11
28	Preparation of polymersomes in pure water for facile antibacterial applications. *RSC Advances*, **2015**, 5, 55602-55607	3.7	9
27	A multifunctional statistical copolymer vesicle for water remediation. *Polymer Chemistry*, **2016**, 7, 4647-4653	4.9	9
26	Decoration of homopolymer vesicles by antibacterial ultrafine silver nanoparticles. *RSC Advances*, **2014**, 4, 41331-41335	3.7	9
25	Intramolecular Cyclization-Induced Crystallization-Driven Self-Assembly of an Amorphous Poly(amic acid). *Macromolecules*, **2020**, 53, 11033-11039	5.5	8
24	Polymer Vesicles **2014**, 177-192		7
23	Recent progress on charge-reversal polymeric nanocarriers for cancer treatments. *Biomedical Materials (Bristol)*, **2021**, 16,	3.5	7

22	Breaking the Corona Symmetry of Vesicles. *Macromolecules*, **2021**, 54, 7603-7611	5.5	7
21	Bone-Targeting Polymer Vesicles for Effective Therapy of Osteoporosis. *Nano Letters*, **2021**, 21, 7998-8007	11.5	7
20	Fully Bio-Based High-Performance Thermosets with Closed-Loop Recyclability. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 1036-1046	8.3	6
19	Polymersomes with inhomogeneous membranes, asymmetrical coronas and fused membranes and coronas. *Chinese Science Bulletin*, **2020**, 65, 2615-2626	2.9	6
18	Synthesis and Characterization of Thermo-Responsive Polypeptide-Based Vesicles with Photo-Cross-Linked Membranes. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2017**, 33, 656-660	3.8	6
17	Giant Polymer Vesicles with a Latticelike Membrane.. *ACS Macro Letters*, **2021**, 10, 1015-1022	6.6	6
16	Ultrasound-Responsive Peptide Nanogels to Balance Conflicting Requirements for Deep Tumor Penetration and Prolonged Blood Circulation.. *ACS Nano*, **2022**,	16.7	6
15	Effective oxidation protection of polymer micelles for copper nanoparticles in water. *RSC Advances*, **2014**, 4, 14193-14196	3.7	5
14	Preparation, application and perspective in polymer vesicles with an inhomogeneous membrane. *Scientia Sinica Chimica*, **2019**, 49, 877-890	1.6	5
13	pH-sensitive biocompatible block copolymer vesicles for drug delivery. *Journal of Controlled Release*, **2011**, 152 Suppl 1, e16-7	11.7	4
12	Glucose-responsive oral insulin delivery platform for one treatment a day in diabetes. *Matter*, **2021**, 4, 3269-3285	12.7	4
11	Recent advances in bone-targeting nanoparticles for biomedical applications. *Materials Chemistry Frontiers*, **2021**, 5, 6735-6759	7.8	4
10	Mitochondrial-targeting nanoprodrugs to mutually reinforce metabolic inhibition and autophagy for combating resistant cancer. *Biomaterials*, **2021**, 278, 121168	15.6	4
9	Hairy cylinders based on a coil-comb-coil copolymer. *RSC Advances*, **2016**, 6, 104911-104918	3.7	3
8	High-genus multicompartment vesicles evolved from large compound micelles. *Polymer Chemistry*, **2021**, 12, 3362-3366	4.9	3
7	Polymeric Micelles **2012**,		2
6	Advances and Perspectives of Peptide and Polypeptide-Based Materials for Biomedical Imaging. *Advanced NanoBiomed Research*, **2021**, 1, 2000109	0	2
5	Bioreducible, arginine-rich polydisulfide-based siRNA nanocomplexes with excellent tumor penetration for efficient gene silencing. *Biomaterials Science*, **2021**, 9, 5275-5292	7.4	2

4	Transformation of Amorphous Nanobowls to Crystalline Ellipsoids Induced by Trans-Cis Isomerization of Azobenzene.. *Macromolecular Rapid Communications*, **2022**, e2200131	4.8	1
3	Lateral growth of cylinders.. *Nature Communications*, **2022**, 13, 2170	17.4	1
2	EpCAM-antibody-conjugated polymersomes for cancer stem cells-targeted delivery of anticancer drug and siRNA. *Journal of Controlled Release*, **2017**, 259, e60-e61	11.7	
1	Back Cover: Macromol. Rapid Commun. 10/2006. *Macromolecular Rapid Communications*, **2006**, 27, 812-813	4.8	