

Jianzhong Du

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.

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	Fully Bio-Based High-Performance Thermosets with Closed-Loop Recyclability. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1036-1046	8.3	6
128	Transformation of Amorphous Nanobowls to Crystalline Ellipsoids Induced by Trans-Cis Isomerization of Azobenzene.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200131	4.8	1
127	Lateral growth of cylinders.. <i>Nature Communications</i> , 2022 , 13, 2170	17.4	1
126	Ultrasound-Responsive Peptide Nanogels to Balance Conflicting Requirements for Deep Tumor Penetration and Prolonged Blood Circulation.. <i>ACS Nano</i> , 2022 ,	16.7	6
125	Glucose-responsive oral insulin delivery platform for one treatment a day in diabetes. <i>Matter</i> , 2021 , 4, 3269-3285	12.7	4
124	Polymersome Wound Dressing Spray Capable of Bacterial Inhibition and H ₂ S Generation for Complete Diabetic Wound Healing. <i>Chemistry of Materials</i> , 2021 , 33, 7972-7985	9.6	13
123	Advances and Perspectives of Peptide and Polypeptide-Based Materials for Biomedical Imaging. <i>Advanced NanoBiomed Research</i> , 2021 , 1, 2000109	0	2
122	Ultrasound-responsive polymer-based drug delivery systems. <i>Drug Delivery and Translational Research</i> , 2021 , 11, 1323-1339	6.2	18
121	Advances and Prospects of Polymeric Particles for the Treatment of Bacterial Biofilms. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 2218-2232	4.3	14
120	Principles and Characteristics of Polymerization-Induced Self-Assembly with Various Polymerization Techniques. <i>CCS Chemistry</i> , 2021 , 3, 2104-2125	7.2	31
119	Combined Antioxidant-Antibiotic Treatment for Effectively Healing Infected Diabetic Wounds Based on Polymer Vesicles. <i>ACS Nano</i> , 2021 , 15, 9027-9038	16.7	29
118	Recent progress on charge-reversal polymeric nanocarriers for cancer treatments. <i>Biomedical Materials (Bristol)</i> , 2021 , 16,	3.5	7
117	Breaking the Corona Symmetry of Vesicles. <i>Macromolecules</i> , 2021 , 54, 7603-7611	5.5	7
116	Renoprotective Angiographic Polymersomes. <i>Advanced Functional Materials</i> , 2021 , 31, 2007330	15.6	11
115	Bone-targeting polymer vesicles for simultaneous imaging and effective malignant bone tumor treatment. <i>Biomaterials</i> , 2021 , 269, 120345	15.6	16
114	Bioreducible, arginine-rich polydisulfide-based siRNA nanocomplexes with excellent tumor penetration for efficient gene silencing. <i>Biomaterials Science</i> , 2021 , 9, 5275-5292	7.4	2
113	High-genus multicompartiment vesicles evolved from large compound micelles. <i>Polymer Chemistry</i> , 2021 , 12, 3362-3366	4.9	3

112	Recent advances in bone-targeting nanoparticles for biomedical applications. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6735-6759	7.8	4
111	Giant Polymer Vesicles with a Latticelike Membrane.. <i>ACS Macro Letters</i> , 2021 , 10, 1015-1022	6.6	6
110	Bone-Targeting Polymer Vesicles for Effective Therapy of Osteoporosis. <i>Nano Letters</i> , 2021 , 21, 7998-8007	7.5	7
109	Mitochondrial-targeting nanoprodrugs to mutually reinforce metabolic inhibition and autophagy for combating resistant cancer. <i>Biomaterials</i> , 2021 , 278, 121168	15.6	4
108	Intramolecular Cyclization-Induced Crystallization-Driven Self-Assembly of an Amorphous Poly(amic acid). <i>Macromolecules</i> , 2020 , 53, 11033-11039	5.5	8
107	Two Principles for Polymersomes with Ultrahigh Biomacromolecular Loading Efficiencies: Acid-Induced Adsorption and Affinity-Enhanced Attraction. <i>Macromolecules</i> , 2020 , 53, 3978-3993	5.5	11
106	Tetrapod Polymersomes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6569-6577	16.4	38
105	Ultrasound-responsive polymersomes capable of endosomal escape for efficient cancer therapy. <i>Journal of Controlled Release</i> , 2020 , 322, 81-94	11.7	44
104	Polymersomes with inhomogeneous membranes, asymmetrical coronas and fused membranes and coronas. <i>Chinese Science Bulletin</i> , 2020 , 65, 2615-2626	2.9	6
103	Challenges and Perspective on Ring-Opening Polymerization-Induced Self-Assembly. <i>Acta Chimica Sinica</i> , 2020 , 78, 719	3.3	14
102	On the origin and regulation of ultrasound responsiveness of block copolymer nanoparticles. <i>Science China Chemistry</i> , 2020 , 63, 272-281	7.9	15
101	Superparamagnetic nanoparticles for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 354-367	7.3	75
100	Effective treatment of drug-resistant lung cancer via a nanogel capable of reactivating cisplatin and enhancing early apoptosis. <i>Biomaterials</i> , 2020 , 257, 120252	15.6	16
99	Design principles, synthesis and biomedical applications of polymer vesicles with inhomogeneous membranes. <i>Journal of Controlled Release</i> , 2020 , 326, 365-386	11.7	20
98	Ring-Opening Polymerization of N-Carboxyanhydride-Induced Self-Assembly for Fabricating Biodegradable Polymer Vesicles. <i>ACS Macro Letters</i> , 2019 , 8, 1216-1221	6.6	46
97	Dual Corona Vesicles with Intrinsic Antibacterial and Enhanced Antibiotic Delivery Capabilities for Effective Treatment of Biofilm-Induced Periodontitis. <i>ACS Nano</i> , 2019 , 13, 13645-13657	16.7	79
96	Nanobowls with controlled openings and interior holes driven by the synergy of hydrogen bonding and π - π interaction. <i>Chemical Science</i> , 2019 , 10, 657-664	9.4	36
95	Evolution of diverse higher-order membrane structures of block copolymer vesicles. <i>Polymer Chemistry</i> , 2019 , 10, 3020-3029	4.9	13

94	Controlling blood sugar levels with a glycopolymerosome. <i>Materials Horizons</i> , 2019 , 6, 2047-2055	14.4	23
93	Preparation, application and perspective in polymer vesicles with an inhomogeneous membrane. <i>Scientia Sinica Chimica</i> , 2019 , 49, 877-890	1.6	5
92	Size and shape affects the antimicrobial activity of quaternized nanoparticles. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 255-259	2.5	20
91	Polymer Vesicles: Modular Platforms for Cancer Theranostics. <i>Advanced Materials</i> , 2018 , 30, e1705674	24	76
90	Synthesis, Self-Assembly, and Biomedical Applications of Antimicrobial Peptide-Polymer Conjugates. <i>Biomacromolecules</i> , 2018 , 19, 1701-1720	6.9	134
89	Dually Gated Polymersomes for Gene Delivery. <i>Nano Letters</i> , 2018 , 18, 5562-5568	11.5	53
88	Polymer nanodisks by collapse of nanocapsules. <i>Science China Chemistry</i> , 2018 , 61, 569-575	7.9	15
87	Plasmonic vesicles with tailored collective properties. <i>Nanoscale</i> , 2018 , 10, 17354-17361	7.7	12
86	Efficient Removal of Polycyclic Aromatic Hydrocarbons, Dyes, and Heavy Metal Ions by a Homopolymer Vesicle. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 713-722	9.5	50
85	Polymersome-hydrogel composites with combined quick and long-term antibacterial activities. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 6311-6321	7.3	25
84	Polymer vesicles: Mechanism, preparation, application, and responsive behavior. <i>Progress in Polymer Science</i> , 2017 , 64, 1-22	29.6	213
83	Sugar-Breathing Glycopolymerosomes for Regulating Glucose Level. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7640-7647	16.4	107
82	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
81	Highly Effective Antibacterial Vesicles Based on Peptide-Mimetic Alternating Copolymers for Bone Repair. <i>Biomacromolecules</i> , 2017 , 18, 4154-4162	6.9	40
80	EpCAM-antibody-conjugated polymersomes for cancer stem cells-targeted delivery of anticancer drug and siRNA. <i>Journal of Controlled Release</i> , 2017 , 259, e60-e61	11.7	
79	Hydrogel scaffolds for differentiation of adipose-derived stem cells. <i>Chemical Society Reviews</i> , 2017 , 46, 6255-6275	58.5	156
78	A superparamagnetic polymersome with extremely high T relaxivity for MRI and cancer-targeted drug delivery. <i>Biomaterials</i> , 2017 , 114, 23-33	15.6	108
77	Synthesis and Characterization of Thermo-Responsive Polypeptide-Based Vesicles with Photo-Cross-Linked Membranes. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2017 , 33, 656-660	3.8	6

76	Preparation and Antibacterial Mechanism Insight of Polypeptide-Based Micelles with Excellent Antibacterial Activities. <i>Biomacromolecules</i> , 2016 , 17, 3922-3930	6.9	81
75	Hairy cylinders based on a coil-comb-coil copolymer. <i>RSC Advances</i> , 2016 , 6, 104911-104918	3.7	3
74	Preparation of water dispersible poly(methyl methacrylate)-based vesicles for facile persistent antibacterial applications. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016 , 34, 44-51	3.5	20
73	A multifunctional statistical copolymer vesicle for water remediation. <i>Polymer Chemistry</i> , 2016 , 7, 4647-4653	4.5	9
72	Recent advances in magnetic hydrogels. <i>Polymer International</i> , 2016 , 65, 1365-1372	3.3	42
71	Template-free fabrication of nitrogen-doped hollow carbon spheres for high-performance supercapacitors based on a scalable homopolymer vesicle. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12088-12097	12.3	78
70	Synthesis and Mechanism Insight of a Peptide-Grafted Hyperbranched Polymer Nanosheet with Weak Positive Charges but Excellent Intrinsically Antibacterial Efficacy. <i>Biomacromolecules</i> , 2016 , 17, 2080-6	6.9	46
69	Light-triggered On/Off Switching of fluorescence based on a naphthopyran-containing compound polymer micelle. <i>Polymer Chemistry</i> , 2016 , 7, 3444-3450	4.9	11
68	Preparation of polymersomes in pure water for facile antibacterial applications. <i>RSC Advances</i> , 2015 , 5, 55602-55607	3.7	9
67	Disclosing the nature of thermo-responsiveness of poly(N-isopropyl acrylamide)-based polymeric micelles: aggregation or fusion?. <i>Chemical Communications</i> , 2015 , 51, 11198-201	5.8	15
66	Rationally Engineering Dual Missions in One Statistical Copolymer Nanocapsule: Bacterial Inhibition and Polycyclic Aromatic Hydrocarbon Capturing. <i>ACS Macro Letters</i> , 2015 , 4, 511-515	6.6	28
65	Multifunctional biocompatible and biodegradable folic acid conjugated poly(ϵ -caprolactone)-polypeptide copolymer vesicles with excellent antibacterial activities. <i>Bioconjugate Chemistry</i> , 2015 , 26, 725-34	6.3	71
64	Silkworm cocoons by cylinders self-assembled from H-shaped alternating polymer brushes. <i>Polymer Chemistry</i> , 2015 , 6, 886-890	4.9	15
63	Rationally Separating the Corona and Membrane Functions of Polymer Vesicles for Enhanced T ₁ MRI and Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14043-52	9.5	38
62	EpCAM-Antibody-Labeled Noncytotoxic Polymer Vesicles for Cancer Stem Cells-Targeted Delivery of Anticancer Drug and siRNA. <i>Biomacromolecules</i> , 2015 , 16, 1695-705	6.9	43
61	An Asymmetrical Polymer Vesicle Strategy for Significantly Improving T ₁ MRI Sensitivity and Cancer-Targeted Drug Delivery. <i>Macromolecules</i> , 2015 , 48, 739-749	5.5	87
60	A multifunctional azobenzene-based polymeric adsorbent for effective water remediation. <i>Scientific Reports</i> , 2014 , 4, 7296	4.9	12
59	Silver-decorated biodegradable polymer vesicles with excellent antibacterial efficacy. <i>Polymer Chemistry</i> , 2014 , 5, 405-411	4.9	41

58	Organic/inorganic composite membranes based on poly(L-lactic-co-glycolic acid) and mesoporous silica for effective bone tissue engineering. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 20895-903	9.5	43
57	Decoration of homopolymer vesicles by antibacterial ultrafine silver nanoparticles. <i>RSC Advances</i> , 2014 , 4, 41331-41335	3.7	9
56	How does a tiny terminal alkynyl end group drive fully hydrophilic homopolymers to self-assemble into multicompartement vesicles and flower-like complex particles?. <i>Polymer Chemistry</i> , 2014 , 5, 5077-5088	4.9	40
55	Multifunctional homopolymer vesicles for facile immobilization of gold nanoparticles and effective water remediation. <i>ACS Nano</i> , 2014 , 8, 5022-31	16.7	101
54	Effective oxidation protection of polymer micelles for copper nanoparticles in water. <i>RSC Advances</i> , 2014 , 4, 14193-14196	3.7	5
53	Polymer/TiO ₂ hybrid vesicles for excellent UV screening and effective encapsulation of antioxidant agents. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 13535-41	9.5	36
52	Antibacterial polymeric nanostructures for biomedical applications. <i>Chemical Communications</i> , 2014 , 50, 14482-93	5.8	142
51	Reduction of 4-nitrophenol catalyzed by silver nanoparticles supported on polymer micelles and vesicles. <i>RSC Advances</i> , 2014 , 4, 16425-16428	3.7	59
50	Asymmetrical polymer vesicles with a "stealthy" outer corona and an endosomal-escape-accelerating inner corona for efficient intracellular anticancer drug delivery. <i>Biomacromolecules</i> , 2014 , 15, 3072-82	6.9	75
49	Polymer Vesicles 2014 , 177-192		7
48	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. <i>Biomacromolecules</i> , 2014 , 15, 1586-92	6.9	64
47	Preparation and mechanism insight of nuclear envelope-like polymer vesicles for facile loading of biomacromolecules and enhanced biocatalytic activity. <i>ACS Nano</i> , 2014 , 8, 6644-54	16.7	65
46	Enzyme activated photodynamic therapy for methicillin-resistant Staphylococcus aureus infection both inv itro and in vivo. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014 , 136, 72-80	6.7	19
45	Ultrasound and pH dually responsive polymer vesicles for anticancer drug delivery. <i>Scientific Reports</i> , 2013 , 3, 2162	4.9	138
44	Antibacterial high-genus polymer vesicle as an "armed" drug carrier. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 5496-5504	7.3	39
43	Homopolymer vesicles with a gradient bilayer membrane as drug carriers. <i>Chemical Communications</i> , 2013 , 49, 11521-3	5.8	29
42	Probing into Homopolymer Self-Assembly: How Does Hydrogen Bonding Influence Morphology?. <i>Macromolecules</i> , 2013 , 46, 194-203	5.5	89
41	Antibacterial Polypeptide-Grafted Chitosan-Based Nanocapsules As an "Armed" Carrier of Anticancer and Antiepileptic Drugs.. <i>ACS Macro Letters</i> , 2013 , 2, 1021-1025	6.6	127

40	Antibacterial vesicles by direct dissolution of a block copolymer in water. <i>Polymer Chemistry</i> , 2013 , 4, 255-259	4.9	53
39	Polymer/TiO ₂ Hybrid Nanoparticles with Highly Effective UV-Screening but Eliminated Photocatalytic Activity. <i>Macromolecules</i> , 2013 , 46, 375-383	5.5	64
38	Acid and reduction dually cleavable amphiphilic comb-like copolymer micelles for controlled drug delivery. <i>Polymer Chemistry</i> , 2013 , 4, 3398	4.9	36
37	Ultrafine silver nanoparticles with excellent antibacterial efficacy prepared by a handover of vesicle templating to micelle stabilization. <i>Polymer Chemistry</i> , 2013 , 4, 3448	4.9	28
36	Revisiting the time for removing the unloaded drug by dialysis method based on a biocompatible and biodegradable polymer vesicle. <i>Polymer</i> , 2012 , 53, 2068-2073	3.9	25
35	Preparation of water-dispersible silver-decorated polymer vesicles and micelles with excellent antibacterial efficacy. <i>Polymer Chemistry</i> , 2012 , 3, 2217	4.9	44
34	Water-dispersible and biodegradable polymer micelles with good antibacterial efficacy. <i>Chemical Communications</i> , 2012 , 48, 6857-9	5.8	70
33	Precise Synthesis of ABCDE Star Quintopolymers by Combination of Controlled Polymerization and Azide-Alkyne Cycloaddition Reaction. <i>Macromolecules</i> , 2012 , 45, 7429-7439	5.5	36
32	Multifunctional polymer vesicles for ultrasensitive magnetic resonance imaging and drug delivery. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12329		75
31	pH-Sensitive Block Copolymer Vesicles with Variable Trigger Points for Drug Delivery. <i>Macromolecules</i> , 2012 , 45, 8275-8283	5.5	113
30	Polymeric Micelles 2012 ,		2
29	pH-Responsive Chiral Nanostructures. <i>Australian Journal of Chemistry</i> , 2011 , 64, 1041	1.2	17
28	pH-sensitive biocompatible block copolymer vesicles for drug delivery. <i>Journal of Controlled Release</i> , 2011 , 152 Suppl 1, e16-7	11.7	4
27	Self-assembly of hydrophilic homopolymers: a matter of RAFT end groups. <i>Small</i> , 2011 , 7, 2070-80	11	98
26	Anisotropic particles with patchy, multicompartment and Janus architectures: preparation and application. <i>Chemical Society Reviews</i> , 2011 , 40, 2402-16	58.5	440
25	Patchy multi-compartment micelles are formed by direct dissolution of an ABC triblock copolymer in water. <i>Soft Matter</i> , 2010 , 6, 4851	3.6	60
24	pH-Responsive Vesicles from a Schizophrenic Diblock Copolymer. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 1530-1537	2.6	53
23	Efficient encapsulation of plasmid DNA in pH-sensitive PMPC-PDPA polymersomes: study of the effect of PDPA block length on copolymer-DNA binding affinity. <i>Macromolecular Bioscience</i> , 2010 , 10, 513-30	5.5	88

22	Shell cross-linked micelles as cationic templates for the preparation of silica-coated nanoparticles: strategies for controlling the mean particle diameter. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 464-8	4.8	27
21	Preparation of biocompatible zwitterionic block copolymer vesicles by direct dissolution in water and subsequent silicification within their membranes. <i>Langmuir</i> , 2009 , 25, 9564-70	4	69
20	Advances and challenges in smart and functional polymer vesicles. <i>Soft Matter</i> , 2009 , 5, 3544	3.6	477
19	Non-cytotoxic polymer vesicles for rapid and efficient intracellular delivery. <i>Faraday Discussions</i> , 2008 , 139, 143-59; discussion 213-28, 419-20	3.6	148
18	Preparation of primary amine-based block copolymer vesicles by direct dissolution in water and subsequent stabilization by sol-gel chemistry. <i>Langmuir</i> , 2008 , 24, 13710-6	4	49
17	Kinetics of pH-Induced formation and dissociation of polymeric vesicles assembled from a water-soluble zwitterionic diblock copolymer. <i>Langmuir</i> , 2008 , 24, 10019-25	4	38
16	Toward a new lower limit for the minimum scattering vector on the very small angle neutron scattering spectrometer at Laboratoire LBN Brillouin. <i>Journal of Applied Crystallography</i> , 2008 , 41, 161-166	3.8	23
15	Perforated Block Copolymer Vesicles with a Highly Folded Membrane. <i>Macromolecules</i> , 2007 , 40, 4389-4392	3.9	41
14	Biomimetic pH Sensitive Polymersomes for Efficient DNA Encapsulation and Delivery. <i>Advanced Materials</i> , 2007 , 19, 4238-4243	24	390
13	Gelation Inside Block Copolymer Aggregates and Organic/Inorganic Nanohybrids. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 741-750	4.8	21
12	Back Cover: Macromol. Rapid Commun. 10/2006. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 812-813	4.8	21
11	New folate-functionalized biocompatible block copolymer micelles as potential anti-cancer drug delivery systems. <i>Polymer</i> , 2006 , 47, 2946-2955	3.9	112
10	pH-responsive vesicles based on a hydrolytically self-cross-linkable copolymer. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12800-1	16.4	294
9	pH-sensitive vesicles based on a biocompatible zwitterionic diblock copolymer. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17982-3	16.4	530
8	Hairy Nanospheres by Gelation of Reactive Block Copolymer Micelles. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 491-494	4.8	46
7	Preparation of Organic/Inorganic Hybrid Hollow Particles Based on Gelation of Polymer Vesicles. <i>Macromolecules</i> , 2004 , 37, 5710-5716	5.5	129
6	Preparation of poly(ethylene oxide) star polymers and poly(ethylene oxide)-polystyrene heteroarm star polymers by atom transfer radical polymerization. <i>Journal of Polymer Science Part A</i> , 2004 , 42, 2263-2271	2.5	55
5	Organic-inorganic hybrid nanoparticles with a complex hollow structure. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5084-7	16.4	150

4	Organic/Inorganic Hybrid Nanoparticles with a Complex Hollow Structure. <i>Angewandte Chemie</i> , 2004 , 116, 5194-5197	3.6	26
3	PCL Star Polymer, PCL-PS Heteroarm Star Polymer by ATRP, and Core-Carboxylated PS Star Polymer Thereof. <i>Macromolecules</i> , 2004 , 37, 3588-3594	5.5	97
2	Atom-Transfer Radical Polymerization of a Reactive Monomer: 3-(Trimethoxysilyl)propyl Methacrylate. <i>Macromolecules</i> , 2004 , 37, 6322-6328	5.5	91
1	Organic/inorganic hybrid vesicles based on a reactive block copolymer. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14710-1	16.4	208