Wenxin Wang

List of Publications by Year
in descending order

233 papers	11,398 citations	26567 56 h-index	39575 94 g-index
246 all docs	246 docs citations	246 times ranked	14348 citing authors

#	Article	IF	Citations
1	Instability, stabilization, and formulation of liquid protein pharmaceuticals. International Journal of Pharmaceutics, 1999, 185, 129-188.	2.6	932
2	Paintable and Rapidly Bondable Conductive Hydrogels as Therapeutic Cardiac Patches. Advanced Materials, 2018, 30, e1704235.	11.1	329
3	Disulfiram modulated ROSâ€“MAPK and NFÎºB pathways and targeted breast cancer cells with cancer stem cell-like properties. British Journal of Cancer, 2011, 104, 1564-1574.	2.9	326
4	Role of adiposeâ€derived stem cells in wound healing. Wound Repair and Regeneration, 2014, 22, 313-325.	1.5	277
5	Bioapplications of hyperbranched polymers. Chemical Society Reviews, 2015, 44, 4023-4071.	18.7	258
6	Application of a microfluidic chip-based 3D co-culture to test drug sensitivity forÂindividualized treatment of lung cancer. Biomaterials, 2013, 34, 4109-4117.	5.7	236
7	Ion-Sensitive â€œIsothermalâ€•Responsive Polymers Prepared in Water. Journal of the American Chemical Society, 2008, 130, 10852-10853.	6.6	226
8	Injectable and Tunable Gelatin Hydrogels Enhance Stem Cell Retention and Improve Cutaneous Wound Healing. Advanced Functional Materials, 2017, 27, 1606619.	7.8	226
9	Rapid and efficient reprogramming of somatic cells to induced pluripotent stem cells by retinoic acid receptor gamma and liver receptor homolog 1. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18283-18288.	3.3	224
10	A hybrid injectable hydrogel from hyperbranched PEG macromer as a stem cell delivery and retention platform for diabetic wound healing. Acta Biomaterialia, 2018, 75, 63-74.	4.1	213
11	Mussel-inspired hyperbranched poly(amino ester) polymer as strong wet tissue adhesive. Biomaterials, 2014, 35, 711-719.	5.7	205
12	Control of pore size and structure of tissue engineering scaffolds produced by supercritical fluid processing. , 2007, 14, 64-77.		200
13	The transition from linear to highly branched poly(Î²-amino ester)s: Branching matters for gene delivery. Science Advances, 2016, 2, e1600102.	4.7	163
14	Polymer gene delivery: overcoming the obstacles. Drug Discovery Today, 2013, 18, 1090-1098.	3.2	151
15	Hedgehog signaling induces osteosarcoma development through Yap1 and H19 overexpression. Oncogene, 2014, 33, 4857-4866.	2.6	136
16	Lipophilicity influence on conjunctival drug penetration in the pigmented rabbit: A comparison with corneal penetration. Current Eye Research, 1991, 10, 571-579.	0.7	130
17	Injectable hyperbranched poly(Î²-amino ester) hydrogels with on-demand degradation profiles to match wound healing processes. Chemical Science, 2018, 9, 2179-2187.	3.7	123
18	Bio-resorbable polymer stents: a review of material progress and prospects. Progress in Polymer Science, 2018, 83, 79-96.	11.8	123

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19	Encapsulation and 3D culture of human adipose-derived stem cells in an in-situ crosslinked hybrid hydrogel composed of PEG-based hyperbranched copolymer and hyaluronic acid. Stem Cell Research and Therapy, 2013, 4, 32.	2.4	120
20	Controlling Chain Growth:Â A New Strategy to Hyperbranched Materials. Macromolecules, 2007, 40, 7184-7194.	2.2	118
21	Can Block Copolymers Be Synthesized by a Single-Step Chemoenzymatic Route in Supercritical Carbon Dioxide?. Journal of the American Chemical Society, 2005, 127, 2384-2385.	6.6	114
22	Performance of an in situ formed bioactive hydrogel dressing from a PEG-based hyperbranched multifunctional copolymer. Acta Biomaterialia, 2014, 10, 2076-2085.	4.1	113
23	Bifunctional Hybrid Mesoporous Organoaluminosilicates with Molecularly Ordered Ethylene Groups. Journal of the American Chemical Society, 2005, 127, 790-798.	6.6	109
24	Wound dressing change facilitated by spraying zinc ions. Materials Horizons, 2020, 7, 605-614.	6.4	106
25	Shock-Absorbing and Failure Mechanisms of WS2and MoS2Nanoparticles with Fullerene-like Structures under Shock Wave Pressure. Journal of the American Chemical Society, 2005, 127, 16263-16272.	6.6	104
26	Taking tissue adhesives to the future: from traditional synthetic to new biomimetic approaches. Biomaterials Science, 2013, 1, 239-253.	2.6	104
27	Highly branched poly(Î²-amino ester)s for skin gene therapy. Journal of Controlled Release, 2016, 244, 336-346.	4.8	95
28	Controlled multi-vinyl monomer homopolymerization through vinyl oligomer combination as a universal approach to hyperbranched architectures. Nature Communications, 2013, 4, 1873.	5.8	94
29	miRNA delivery for skin wound healing. Advanced Drug Delivery Reviews, 2018, 129, 308-318.	6.6	94
30	Complex polymer architectures through free-radical polymerization of multivinyl monomers. Nature Reviews Chemistry, 2020, 4, 194-212.	13.8	93
31	A highly effective gene delivery vector â€“ hyperbranched poly(2-(dimethylamino)ethyl methacrylate) from in situ deactivation enhanced ATRP. Chemical Communications, 2010, 46, 4698.	2.2	86
32	Catechol functionalized hyperbranched polymers as biomedical materials. Progress in Polymer Science, 2018, 78, 47-55.	11.8	85
33	â€œOneâ€stepâ€•Preparation of Thiolâ€Ene Clickable PEGâ€Based Thermoresponsive Hyperbranched Copolymer for In Situ Crosslinking Hybrid Hydrogel. Macromolecular Rapid Communications, 2012, 33, 120-126.	2.0	84
34	3D Single Cyclized Polymer Chain Structure from Controlled Polymerization of Multi-Vinyl Monomers: Beyond Floryâ€“Stockmayer Theory. Journal of the American Chemical Society, 2011, 133, 13130-13137.	6.6	82
35	Highly Branched Poly(Î²-Amino Esters): Synthesis and Application in Gene Delivery. Biomacromolecules, 2015, 16, 2609-2617.	2.6	82
36	Single Cyclized Molecule Versus Single Branched Molecule: A Simple and Efficient 3D â€œKnotâ€•Polymer Structure for Nonviral Gene Delivery. Journal of the American Chemical Society, 2012, 134, 4782-4789.	6.6	81

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37	Highly branched Âpoly(Î²-amino ester)Âdelivery of minicircle DNA for transfection of neurodegenerativeÂdisease related cells. Nature Communications, 2019, 10, 3307.	5.8	80
38	Tunable elastin-like polypeptide hollow sphere as a high payload and controlled delivery gene depot. Journal of Controlled Release, 2011, 152, 382-392.	4.8	79
39	Rebuilding Postinfarcted Cardiac Functions by Injecting TIIA@PDA Nanoparticle-Cross-linked ROS-Sensitive Hydrogels. ACS Applied Materials & Interfaces, 2019, 11, 2880-2890.	4.0	79
40	WS2 and MoS2 Inorganic Fullerenesâ€"Super Shock Absorbers at Very High Pressures. Advanced Materials, 2005, 17, 1500-1503.	11.1	78
41	Highly Branched Poly(Î²-amino esters) for Non-Viral Gene Delivery: High Transfection Efficiency and Low Toxicity Achieved by Increasing Molecular Weight. Biomacromolecules, 2016, 17, 3640-3647.	2.6	78
42	Significance of Branching for Transfection: Synthesis of Highly Branched Degradable Functional Poly(dimethylaminoethyl methacrylate) by Vinyl Oligomer Combination. Angewandte Chemie - International Edition, 2014, 53, 6095-6100.	7.2	74
43	Thermoresponsive and Photocrosslinkable PEGMEMA-PPGMA-EGDMA Copolymers from a One-Step ATRP Synthesis. Biomacromolecules, 2009, 10, 822-828.	2.6	73
44	MicroRNA-30a-3p inhibits tumor proliferation, invasiveness and metastasis and is downregulated in hepatocellular carcinoma. European Journal of Surgical Oncology, 2014, 40, 1586-1594.	0.5	72
45	Poly(ethylene glycol)-Based Hyperbranched Polymer from RAFT and Its Application as a Silver-Sulfadiazine-Loaded Antibacterial Hydrogel in Wound Care. ACS Applied Materials & Interfaces, 2016, 8, 26648-26656.	4.0	70
46	Photo-Cross-Linked Hydrogels from Thermoresponsive PEGMEMA-PPGMA-EGDMA Copolymers Containing Multiple Methacrylate Groups: Mechanical Property, Swelling, Protein Release, and Cytotoxicity. Biomacromolecules, 2009, 10, 2895-2903.	2.6	69
47	A new developing class of gene delivery: messenger RNA-based therapeutics. Biomaterials Science, 2017, 5, 2381-2392.	2.6	69
48	Synthesis of mesoporous silica hollow spheres in supercritical CO2/water systems. Journal of Materials Chemistry, 2006, 16, 1751.	6.7	67
49	A biomimetic hyperbranched poly(amino ester)-based nanocomposite as a tunable bone adhesive for sternal closure. Journal of Materials Chemistry B, 2014, 2, 4067.	2.9	66
50	One-Step Chemoenzymatic Synthesis of Poly(Îµ-caprolactone-block-methyl methacrylate) in Supercritical CO2. Macromolecules, 2006, 39, 5352-5358.	2.2	65
51	â€œLivingâ€•Polymer Beads in Supercritical CO2. Macromolecules, 2007, 40, 2965-2967.	2.2	65
52	Synthesis and Phase Behavior of CO₂-Soluble Hydrocarbon Copolymer: Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	2.2	65
53	On-demand and negative-thermo-swelling tissue adhesive based on highly branched ambivalent PEGâ€“catechol copolymers. Journal of Materials Chemistry B, 2015, 3, 6420-6428.	2.9	65
54	Cartilage regeneration using arthroscopic flushing fluid-derived mesenchymal stem cells encapsulated in a one-step rapid cross-linked hydrogel. Acta Biomaterialia, 2018, 79, 202-215.	4.1	65

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55	Synthesis of siliceous hollow spheres with large mesopore wall structure by supercritical CO2-in-water interface templating. Chemical Communications, 2005, , 210.	2.2	62
56	Tailoring highly branched poly(Î²-amino ester)s: a synthetic platform for epidermal gene therapy. Chemical Communications, 2015, 51, 8473-8476.	2.2	62
57	Amine Functionalization of Collagen Matrices with Multifunctional Polyethylene Glycol Systems. Biomacromolecules, 2010, 11, 3093-3101.	2.6	58
58	Improved axonal regeneration of transected spinal cord mediated by multichannel collagen conduits functionalized with neurotrophin-3 gene. Gene Therapy, 2013, 20, 1149-1157.	2.3	57
59	Supramolecularly engineered phospholipids constructed by nucleobase molecular recognition: upgraded generation of phospholipids for drug delivery. Chemical Science, 2015, 6, 3775-3787.	3.7	56
60	Acceleration of Diabetic Wound Regeneration using an In Situâ€“Formed Stemâ€Cellâ€Based Skin Substitute. Advanced Healthcare Materials, 2018, 7, e1800432.	3.9	56
61	Biodegradable Highly Branched Poly(Î²-Amino Ester)s for Targeted Cancer Cell Gene Transfection. ACS Biomaterials Science and Engineering, 2017, 3, 1283-1286.	2.6	55
62	Intraâ€aggregate Pore Characteristics: Xâ€ray Computed Microtomography Analysis. Soil Science Society of America Journal, 2012, 76, 1159-1171.	1.2	54
63	Biodegradable Thermoresponsive Microparticle Dispersions for Injectable Cell Delivery Prepared Using a Singleâ€Step Process. Advanced Materials, 2009, 21, 1809-1813.	11.1	53
64	Dispersion Atom Transfer Radical Polymerization of Vinyl Monomers in Supercritical Carbon Dioxide. Macromolecules, 2008, 41, 8575-8583.	2.2	50
65	Preparation of cross-linked microparticles of poly(glycidyl methacrylate) by dispersion polymerization of glycidyl methacrylate using a PDMS macromonomer as stabilizer in supercritical carbon dioxide. Polymer, 2002, 43, 6653-6659.	1.8	49
66	Modular Construction of Multifunctional Bioresponsive Cell-Targeted Nanoparticles for Gene Delivery. Bioconjugate Chemistry, 2011, 22, 156-168.	1.8	49
67	Manipulation of Transgene Expression in Fibroblast Cells by a Multifunctional Linear-Branched Hybrid Poly(Î²-Amino Ester) Synthesized through an Oligomer Combination Approach. Nano Letters, 2019, 19, 381-391.	4.5	48
68	Selfâ€Immolative Polymers. Angewandte Chemie - International Edition, 2008, 47, 7804-7806.	7.2	46
69	A rapid crosslinking injectable hydrogel for stem cell delivery, from multifunctional hyperbranched polymers via RAFT homopolymerization of PEGDA. Polymer Chemistry, 2015, 6, 6182-6192.	1.9	46
70	Reactive oxygen species (ROS): utilizing injectable antioxidative hydrogels and ROS-producing therapies to manage the double-edged sword. Journal of Materials Chemistry B, 2021, 9, 6326-6346.	2.9	46
71	Preparation of polymerâ€“nanoparticle composite beads by a nanoparticle-stabilised suspension polymerisation. Journal of Materials Chemistry, 2007, 17, 4382.	6.7	44
72	Computational Bench Testing to Evaluate the Short-Term Mechanical Performance of a Polymeric Stent. Cardiovascular Engineering and Technology, 2015, 6, 519-532.	0.7	44

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73	Synthesis, characterisation and phase transition behaviour of temperature-responsive physically crosslinked poly (N-vinylcaprolactam) based polymers for biomedical applications. Materials Science and Engineering C, 2017, 79, 130-139.	3.8	44
74	DNA Immobilization and Detection on Cellulose Paper using a Surface Grown Cationic Polymer via ATRP. ACS Applied Materials & Interfaces, 2012, 4, 826-831.	4.0	43
75	Controlled Polymerization of Multivinyl Monomers: Formation of Cyclized/Knotted Singleâ€Chain Polymer Architectures. Angewandte Chemie - International Edition, 2017, 56, 450-460.	7.2	43
76	A hyperbranched amphiphilic acetal polymer for pH-sensitive drug delivery. Polymer Chemistry, 2018, 9, 169-177.	1.9	42
77	A chondroitin sulfate based injectable hydrogel for delivery of stem cells in cartilage regeneration. Biomaterials Science, 2021, 9, 4139-4148.	2.6	41
78	Dual stimuli responsive PEG based hyperbranched polymers. Polymer Chemistry, 2010, 1, 827.	1.9	40
79	Thermoresponsive hyperbranched copolymer with multi acrylate functionality for in situ cross-linkable hyaluronic acid composite semi-IPN hydrogel. Journal of Materials Science: Materials in Medicine, 2012, 23, 25-35.	1.7	40
80	An Injectable Chitosan-Based Self-Healable Hydrogel System as an Antibacterial Wound Dressing. Materials, 2021, 14, 5956.	1.3	40
81	Double-Cross-Linked Hydrogel Strengthened by UV Irradiation from a Hyperbranched PEG-Based Trifunctional Polymer. ACS Macro Letters, 2018, 7, 509-513.	2.3	39
82	A facile synthetic route to aqueous dispersions of silver nanoparticles. Materials Letters, 2007, 61, 4906-4910.	1.3	38
83	Charge Transfer Complex Inimer: A Facile Route to Dendritic Materials. Advanced Materials, 2003, 15, 1348-1352.	11.1	37
84	Hydrolytically Degradable Hyperbranched PEGâ€Polyester Adhesive with Low Swelling and Robust Mechanical Properties. Advanced Healthcare Materials, 2015, 4, 2260-2268.	3.9	37
85	Intramolecular Cyclization Dominating Homopolymerization of Multivinyl Monomers toward Single-Chain Cyclized/Knotted Polymeric Nanoparticles. Macromolecules, 2015, 48, 6882-6889.	2.2	37
86	Development of Branched Poly(5-Amino-1-pentanol-co-1,4-butanediol Diacrylate) with High Gene Transfection Potency Across Diverse Cell Types. ACS Applied Materials & Interfaces, 2016, 8, 34218-34226.	4.0	37
87	A novel hyperbranched polyester made from aconitic acid (B3) and di(ethylene glycol) (A2). Polymer International, 2011, 60, 630-634.	1.6	36
88	Hyperbranched PEGmethacrylate linear pDMAEMA block copolymer as an efficient non-viral gene delivery vector. International Journal of Pharmaceutics, 2012, 434, 99-105.	2.6	35
89	A new generation of poly(lactide/Îµâ€caprolactone) polymeric biomaterials for application in the medical field. Journal of Biomedical Materials Research - Part A, 2014, 102, 3573-3584.	2.1	35
90	Versatile Hyperbranched Poly(Î²-hydrazide ester) Macromers as Injectable Antioxidative Hydrogels. ACS Applied Materials & Interfaces, 2018, 10, 39494-39504.	4.0	35

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91	Copolymerization of Vinylidene Fluoride and Hexafluoropropylene in Supercritical Carbon Dioxide. Macromolecules, 2005, 38, 9135-9142.	2.2	34
92	A novel synthetic route to metalâ€“polymer nanocomposites by in situ suspension and bulk polymerizations. European Polymer Journal, 2008, 44, 1331-1336.	2.6	34
93	Non-viral delivery of CRISPRâ€“Cas9 complexes for targeted gene editing via a polymer delivery system. Gene Therapy, 2022, 29, 157-170.	2.3	34
94	Highly branched poly(Î²-amino ester)s for gene delivery in hereditary skin diseases. Advanced Drug Delivery Reviews, 2021, 176, 113842.	6.6	34
95	Preparation of hybrid polymer nanocomposite microparticles by a nanoparticle stabilised dispersion polymerisation. Journal of Materials Chemistry, 2008, 18, 998.	6.7	33
96	Epoxy functionalised poly(Îµ-caprolactone): synthesis and application. Chemical Communications, 2008, , 5806.	2.2	33
97	The homo and copolymerisation of 2-(dimethylamino)ethyl methacrylate in supercritical carbon dioxide. Polymer, 2003, 44, 3803-3809.	1.8	32
98	New Thiolateâ^'Cobalt(II) Complexes for Catalytic Chain Transfer Polymerization of Methyl Methacrylate. Macromolecules, 2004, 37, 6667-6669.	2.2	32
99	Polymerization of Vinylidene Fluoride in Supercritical Carbon Dioxide:Â Effects of Poly(dimethylsiloxane) Macromonomer on Molecular Weight and Morphology of Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overloc	2.2	32
100	GDNF Gene Delivery via a 2-(Dimethylamino)ethyl Methacrylate Based Cyclized Knot Polymer for Neuronal Cell Applications. ACS Chemical Neuroscience, 2013, 4, 540-546.	1.7	32
101	Covalent and Oriented Immobilization of scFv Antibody Fragments via an Engineered Glycan Moiety. Biomacromolecules, 2013, 14, 153-159.	2.6	32
102	In situ formed hybrid hydrogels from PEG based multifunctional hyperbranched copolymers: a RAFT approach. Polymer Chemistry, 2014, 5, 1838.	1.9	32
103	Synthesis of ROS scavenging microspheres from a dopamine containing poly(Î²-amino ester) for applications for neurodegenerative disorders. Biomaterials Science, 2016, 4, 400-404.	2.6	31
104	Efficient and Robust Highly Branched Poly(Î²-amino ester)/Minicircle COL7A1 Polymeric Nanoparticles for Gene Delivery to Recessive Dystrophic Epidermolysis Bullosa Keratinocytes. ACS Applied Materials & Interfaces, 2019, 11, 30661-30672.	4.0	31
105	Synthetic bioresorbable poly-Î±-hydroxyesters as peripheral nerve guidance conduits; a review of material properties, design strategies and their efficacy to date. Biomaterials Science, 2019, 7, 4912-4943.	2.6	31
106	Main-chain degradable single-chain cyclized polymers as gene delivery vectors. Journal of Controlled Release, 2016, 244, 375-383.	4.8	30
107	Surface patterning of a novel PEGâ€functionalized polyâ€<scp>l</scp>â€lactide polymer to improve its biocompatibility: Applications to bioresorbable vascular stents. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 624-634.	1.6	30
108	An injectable multi-responsive hydrogel as self-healable and on-demand dissolution tissue adhesive. Applied Materials Today, 2021, 22, 100967.	2.3	30

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109	A nonâ€viral gene therapy for treatment of recessive dystrophic epidermolysis bullosa. Experimental Dermatology, 2016, 25, 818-820.	1.4	29
110	Untying a nanoscale knotted polymer structure to linear chains for efficient gene delivery in vitro and to the brain. Nanoscale, 2014, 6, 7526-7533.	2.8	28
111	Anticancer Drug Disulfiram for In Situ RAFT Polymerization: Controlled Polymerization, Multifacet Self-Assembly, and Efficient Drug Delivery. ACS Macro Letters, 2016, 5, 1266-1272.	2.3	28
112	Star Poly(Î²-amino esters) Obtained from the Combination of Linear Poly(Î²-amino esters) and Polyethylenimine. ACS Macro Letters, 2017, 6, 575-579.	2.3	28
113	Dispersion Polymerization of Vinylidene Fluoride in Supercritical Carbon Dioxide Using a Fluorinated Graft Maleic Anhydride Copolymer Stabilizer. Macromolecules, 2005, 38, 1542-1545.	2.2	27
114	Simultaneous Dynamic Kinetic Resolution in Combination with Enzymatic Ring-Opening Polymerization. Macromolecules, 2006, 39, 7302-7305.	2.2	27
115	Polysiloxanes polymers with hyperbranched structure and multivinyl functionality. Journal of Polymer Science Part A, 2012, 50, 629-637.	2.5	27
116	Continual Exposure to Cigarette Smoke Extracts Induces Tumor-Like Transformation of Human Nontumor Bronchial Epithelial Cells in a Microfluidic Chip. Journal of Thoracic Oncology, 2014, 9, 1091-1100.	0.5	27
117	Role of Histone Post-Translational Modifications in Inflammatory Diseases. Frontiers in Immunology, 2022, 13, 852272.	2.2	27
118	Monitoring dispersion polymerisations of methyl methacrylate in supercritical carbon dioxide. European Polymer Journal, 2003, 39, 423-428.	2.6	26
119	Coating carbon nanotubes with polymer in supercritical carbon dioxide. Chemical Communications, 2006, , 1670.	2.2	26
120	Interferonâ€induced protein 35 inhibits endothelial cell proliferation, migration and reâ€endothelialization of injured arteries by inhibiting the nuclear factorâ€kappa B pathway. Acta Physiologica, 2018, 223, e13037.	1.8	26
121	Monte Carlo Simulations of Atom Transfer Radical (Homo)polymerization of Divinyl Monomers: Applicability of Floryâ€“Stockmayer Theory. Macromolecules, 2018, 51, 6673-6681.	2.2	26
122	Instant Gelation System as Self-Healable and Printable 3D Cell Culture Bioink Based on Dynamic Covalent Chemistry. ACS Applied Materials & Interfaces, 2020, 12, 38918-38924.	4.0	26
123	Progress in photodynamic therapy on tumors. Laser Physics, 2008, 18, 1119-1123.	0.6	25
124	Transfection of macrophages by collagen hollow spheres loaded with polyplexes: A step towards modulating inflammation. Acta Biomaterialia, 2012, 8, 4208-4214.	4.1	25
125	Ebola Virus Does Not Block Apoptotic Signaling Pathways. Journal of Virology, 2013, 87, 5384-5396.	1.5	25
126	Bisphosphonates for the preservation of periprosthetic bone mineral density after total joint arthroplasty: a meta-analysis of 25 randomized controlled trials. Osteoporosis International, 2018, 29, 1525-1537.	1.3	25

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127	Cartilage-Derived Progenitor Cell-Laden Injectable Hydrogelâ€"An Approach for Cartilage Tissue Regeneration. ACS Applied Bio Materials, 2020, 3, 4756-4765.	2.3	25
128	Single cyclized molecule structures from RAFT homopolymerization of multi-vinyl monomers. Chemical Communications, 2012, 48, 3085.	2.2	24
129	Water soluble hyperbranched polymers from controlled radical homopolymerization of PEG diacrylate. RSC Advances, 2015, 5, 33823-33830.	1.7	24
130	Prospects for polymer therapeutics in Parkinson's disease and other neurodegenerative disorders. Progress in Polymer Science, 2015, 44, 79-112.	11.8	24
131	Thermo- and pH-Responsive, Coacervate-Forming Hyperbranched Poly(Î²-amino ester)s for Selective Cell Binding. ACS Applied Materials & Interfaces, 2017, 9, 5793-5802.	4.0	24
132	Thermo-Responsive PLGA-PEG-PLGA Hydrogels as Novel Injectable Platforms for Neuroprotective Combined Therapies in the Treatment of Retinal Degenerative Diseases. Pharmaceutics, 2021, 13, 234.	2.0	24
133	A hyperbranched dopamine-containing PEG-based polymer for the inhibition of Î±-synuclein fibrillation. Biochemical and Biophysical Research Communications, 2016, 469, 830-835.	1.0	23
134	Highly Branched poly(5-amino-1-pentanol-co-1,4-butanediol diacrylate) for High Performance Gene Transfection. Polymers, 2017, 9, 161.	2.0	23
135	Dispersion Polymerizations of Methyl Methacrylate in Supercritical Carbon Dioxide with a Novel Ester End-Capped Perfluoropolyether Stabilizer. Macromolecules, 2003, 36, 5424-5427.	2.2	22
136	Soft and flexible poly(ethylene glycol) nanotubes for local drug delivery. Nanoscale, 2018, 10, 8413-8421.	2.8	22
137	The Use of e-Caprolactone as a Polymerizable Solvent for the Atom Transfer Radical Polymerization of MMA at Low Temperature. Macromolecular Chemistry and Physics, 2002, 203, 968.	1.1	21
138	High molecular weight graft stabilisers for dispersion polymerisation of vinylidene fluoride in supercritical carbon dioxide: the effect of architecture. Polymer, 2005, 46, 10626-10636.	1.8	21
139	Supramolecular Fluorescent Nanoparticles Constructed via Multiple Nonâ€Covalent Interactions for the Detection of Hydrogen Peroxide in Cancer Cells. Chemistry - A European Journal, 2015, 21, 11427-11434.	1.7	21
140	Recent research on stimulated emission depletion microscopy for reducing photobleaching. Journal of Microscopy, 2018, 271, 4-16.	0.8	21
141	Brushlike Cationic Polymers with Low Charge Density for Gene Delivery. Biomacromolecules, 2018, 19, 1410-1415.	2.6	21
142	The reverse of polymer degradation: in situ crosslinked gel formation through disulfide cleavage. Chemical Communications, 2012, 48, 585-587.	2.2	20
143	Insights into relevant mechanistic aspects about the induction period of Cu⁰/Me₆TREN-mediated reversible-deactivation radical polymerization. Chemical Communications, 2015, 51, 14435-14438.	2.2	20
144	Hydrogels from dextran and soybean oil by UV photoâ€polymerization. Journal of Applied Polymer Science, 2015, 132, .	1.3	20

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145	Structural Design of Robust and Biocompatible Photonic Hydrogels from an In Situ Cross-Linked Hyperbranched Polymer System. Chemistry of Materials, 2018, 30, 6091-6098.	3.2	20
146	Simultaneous Realization of Superoleophobicity and Strong Substrate Adhesion in Water via a Unique Segment Orientation Mechanism. Advanced Materials, 2022, 34, e2106908.	11.1	20
147	Poly(<scp>d</scp>,<scp>l</scp>-lactide-co-glycolide) Dispersions Containing Pluronics: from Particle Preparation to Temperature-Triggered Aggregation. Langmuir, 2008, 24, 7761-7768.	1.6	19
148	A facile one-pot synthesis of acrylated hyaluronic acid. Chemical Communications, 2018, 54, 1081-1084.	2.2	19
149	Beyond Branching: Multiknot Structured Polymer for Gene Delivery. Biomacromolecules, 2014, 15, 4520-4527.	2.6	18
150	A knot polymer mediated non-viral gene transfection for skin cells. Biomaterials Science, 2016, 4, 92-95.	2.6	18
151	Clinical benefits of autologous haematopoietic stem cell transplantation in type 1 diabetes patients. Diabetes and Metabolism, 2018, 44, 341-345.	1.4	18
152	Nanoâ€Structured Polymerâ€Silica Composite Derived from a Marine Diatom via Deactivation Enhanced Atom Transfer Radical Polymerization Grafting. Small, 2014, 10, 469-473.	5.2	17
153	Supported ATRP of fluorinated methacrylates in supercritical carbon dioxide: preparation of scCO2 soluble polymers with low catalytic residues. Chemical Communications, 2008, , 5803.	2.2	16
154	Thermoresponsive hyperbranched polymers via In Situ RAFT copolymerization of pegâ€based monomethacrylate and dimethacrylate monomers. Journal of Polymer Science Part A, 2013, 51, 3751-3761.	2.5	16
155	Gene therapy: pursuing restoration of dermal adhesion in recessive dystrophic epidermolysis bullosa. Experimental Dermatology, 2014, 23, 1-6.	1.4	16
156	Magnetically Controllable Polymer Nanotubes from a Cyclized Crosslinker for Site-Specific Delivery of Doxorubicin. Scientific Reports, 2015, 5, 17478.	1.6	16
157	Hyperbranched PEG-based multi-NHS polymer and bioconjugation with BSA. Polymer Chemistry, 2017, 8, 1283-1287.	1.9	16
158	Cyclic poly(Î²-amino ester)s with enhanced gene transfection activity synthesized through intra-molecular cyclization. Chemical Communications, 2022, 58, 2136-2139.	2.2	16
159	One-step seed dispersion polymerisation in supercritical carbon dioxide. Chemical Communications, 2005, , 3939.	2.2	15
160	A Chinese Mandarin translation and validation of the Myocardial Infarction Dimensional Assessment Scale (MIDAS). Quality of Life Research, 2006, 15, 1243-1249.	1.5	15
161	A fluorescently labeled, hyperbranched polymer synthesized from DE-ATRP for the detection of DNA hybridization. Polymer Chemistry, 2012, 3, 332-334.	1.9	15
162	Nonviral Methods for Inducing Pluripotency to Cells. BioMed Research International, 2013, 2013, 1-6.	0.9	15

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