Kam Leong

List of Publications by Year
in descending order

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478 papers	47,701 citations	950 115 h-index	2381 198 g-index
492 all docs	492 docs citations	492 times ranked	47846 citing authors

#	Article	IF	Citations
1	Biomedical applications of polymer-composite materials: a review. Composites Science and Technology, 2001, 61, 1189-1224.	3.8	1,260
2	Scaffolding in tissue engineering: general approaches and tissue-specific considerations. European Spine Journal, 2008, 17, 467-479.	1.0	1,208
3	Chitosan-DNA nanoparticles as gene carriers: synthesis, characterization and transfection efficiency. Journal of Controlled Release, 2001, 70, 399-421.	4.8	1,140
4	RNA-guided gene activation by CRISPR-Cas9â€“based transcription factors. Nature Methods, 2013, 10, 973-976.	9.0	1,105
5	Oral gene delivery with chitosanâ€“DNA nanoparticles generates immunologic protection in a murine model of peanut allergy. Nature Medicine, 1999, 5, 387-391.	15.2	1,072
6	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
7	Advanced materials and processing for drug delivery: The past and the future. Advanced Drug Delivery Reviews, 2013, 65, 104-120.	6.6	839
8	3D Printing of Highly Stretchable and Tough Hydrogels into Complex, Cellularized Structures. Advanced Materials, 2015, 27, 4035-4040.	11.1	720
9	Synthetic nanostructures inducing differentiation of human mesenchymal stem cells into neuronal lineage. Experimental Cell Research, 2007, 313, 1820-1829.	1.2	702
10	Multifunctional nanorods for gene delivery. Nature Materials, 2003, 2, 668-671.	13.3	700
11	Natural polymers for gene delivery and tissue engineeringâ˜†. Advanced Drug Delivery Reviews, 2006, 58, 487-499.	6.6	631
12	Nanotopography-induced changes in focal adhesions, cytoskeletal organization, and mechanical properties of human mesenchymal stem cells. Biomaterials, 2010, 31, 1299-1306.	5.7	618
13	Nanopattern-induced changes in morphology and motility of smooth muscle cells. Biomaterials, 2005, 26, 5405-5413.	5.7	592
14	Sustained Release of Proteins from Electrospun Biodegradable Fibers. Biomacromolecules, 2005, 6, 2017-2024.	2.6	527
15	DNA-polycation nanospheres as non-viral gene delivery vehicles. Journal of Controlled Release, 1998, 53, 183-193.	4.8	494
16	Bioerodible polyanhydrides as drug-carrier matrices. I: Characterization, degradation, and release characteristics. Journal of Biomedical Materials Research Part B, 1985, 19, 941-955.	3.0	486
17	Electrohydrodynamics: A facile technique to fabricate drug delivery systems. Advanced Drug Delivery Reviews, 2009, 61, 1043-1054.	6.6	474
18	The effect of the alignment of electrospun fibrous scaffolds on Schwann cell maturation. Biomaterials, 2008, 29, 653-661.	5.7	467

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19	In vivo wound healing of diabetic ulcers using electrospun nanofibers immobilized with human epidermal growth factor (EGF). Biomaterials, 2008, 29, 587-596.	5.7	457
20	CRISPR/Cas9-Based Genome Editing for Disease Modeling and Therapy: Challenges and Opportunities for Nonviral Delivery. Chemical Reviews, 2017, 117, 9874-9906.	23.0	418
21	Self-assembled supramolecular hydrogels formed by biodegradable PEOâ€“PHBâ€“PEO triblock copolymers and Î±-cyclodextrin for controlled drug delivery. Biomaterials, 2006, 27, 4132-4140.	5.7	415
22	Controlled release of heparin from poly(Îµ-caprolactone) electrospun fibers. Biomaterials, 2006, 27, 2042-2050.	5.7	404
23	Simultaneous Delivery of siRNA and Paclitaxel via a â€œTwo-in-Oneâ€•Micelleplex Promotes Synergistic Tumor Suppression. ACS Nano, 2011, 5, 1483-1494.	7.3	387
24	Advanced drug delivery systems and artificial skin grafts for skin wound healing. Advanced Drug Delivery Reviews, 2019, 146, 209-239.	6.6	369
25	Chitosan nanoparticles for oral drug and gene delivery. International Journal of Nanomedicine, 2006, 1, 117-128.	3.3	350
26	Polyethylenimine-Grafted Multiwalled Carbon Nanotubes for Secure Noncovalent Immobilization and Efficient Delivery of DNA. Angewandte Chemie - International Edition, 2005, 44, 4782-4785.	7.2	346
27	Aligned Protein-Polymer Composite Fibers Enhance Nerve Regeneration: A Potential Tissue-Engineering Platform. Advanced Functional Materials, 2007, 17, 1288-1296.	7.8	332
28	The effect of the degree of chitosan deacetylation on the efficiency of gene transfection. Biomaterials, 2004, 25, 5293-5301.	5.7	324
29	Characterization of topographical effects on macrophage behavior in a foreign body response model. Biomaterials, 2010, 31, 3479-3491.	5.7	324
30	Polyphosphoesters in drug and gene delivery. Advanced Drug Delivery Reviews, 2003, 55, 483-499.	6.6	289
31	Surface-aminated electrospun nanofibers enhance adhesion and expansion of human umbilical cord blood hematopoietic stem/progenitor cells. Biomaterials, 2006, 27, 6043-6051.	5.7	263
32	Biomaterials Approach to Expand and Direct Differentiation of Stem Cells. Molecular Therapy, 2007, 15, 467-480.	3.7	263
33	Significance of synthetic nanostructures in dictating cellular response. Nanomedicine: Nanotechnology, Biology, and Medicine, 2005, 1, 10-21.	1.7	262
34	Stable immobilization of rat hepatocyte spheroids on galactosylated nanofiber scaffold. Biomaterials, 2005, 26, 2537-2547.	5.7	261
35	A Novel Biodegradable Gene Carrier Based on Polyphosphoester. Journal of the American Chemical Society, 2001, 123, 9480-9481.	6.6	258
36	PEI-g-chitosan, a Novel Gene Delivery System with Transfection Efficiency Comparable to Polyethylenimine in Vitro and after Liver Administration in Vivo. Bioconjugate Chemistry, 2006, 17, 152-158.	1.8	256

#	Article	IF	Citations
37	Fabrication of Controlled Release Biodegradable Foams by Phase Separation. Tissue Engineering, 1995, 1, 15-28.	4.9	250
38	Injectable drug-delivery systems based on supramolecular hydrogels formed by poly(ethylene oxide)s and ?-cyclodextrin. Journal of Biomedical Materials Research Part B, 2003, 65A, 196-202.	3.0	249
39	The Role of Electrospinning in the Emerging Field of Nanomedicine. Current Pharmaceutical Design, 2006, 12, 4751-4770.	0.9	249
40	Quantum dot-based theranostics. Nanoscale, 2010, 2, 60-68.	2.8	240
41	Bioerodible polyanhydrides as drug-carrier matrices. II. Biocompatibility and chemical reactivity. Journal of Biomedical Materials Research Part B, 1986, 20, 51-64.	3.0	236
42	Cartilage tissue engineering using differentiated and purified induced pluripotent stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19172-19177.	3.3	234
43	Bioinspired Diselenideâ€Bridged Mesoporous Silica Nanoparticles for Dualâ€Responsive Protein Delivery. Advanced Materials, 2018, 30, e1801198.	11.1	234
44	Temperature-responsive hydroxybutyl chitosan for the culture of mesenchymal stem cells and intervertebral disk cells. Biomaterials, 2006, 27, 406-418.	5.7	228
45	Aptamer Nanomedicine for Cancer Therapeutics: Barriers and Potential for Translation. ACS Nano, 2015, 9, 2235-2254.	7.3	228
46	A materials-science perspective on tackling COVID-19. Nature Reviews Materials, 2020, 5, 847-860.	23.3	228
47	In vitro and in vivo models for the study of oral delivery of nanoparticles. Advanced Drug Delivery Reviews, 2013, 65, 800-810.	6.6	226
48	Nonviral gene editing via CRISPR/Cas9 delivery by membrane-disruptive and endosomolytic helical polypeptide. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4903-4908.	3.3	223
49	Preparation and Characterization of Polypseudorotaxanes Based on Block-Selected Inclusion Complexation between Poly(propylene oxide)-Poly(ethylene oxide)-Poly(propylene oxide) Triblock Copolymers andÎ±-Cyclodextrin. Journal of the American Chemical Society, 2003, 125, 1788-1795.	6.6	218
50	Pluripotent stem cell-derived cardiac tissue patch with advanced structure and function. Biomaterials, 2011, 32, 9180-9187.	5.7	212
51	Surface charge critically affects tumor penetration and therapeutic efficacy of cancer nanomedicines. Nano Today, 2016, 11, 133-144.	6.2	208
52	Inducing enhanced immunogenic cell death with nanocarrier-based drug delivery systems for pancreatic cancer therapy. Biomaterials, 2016, 102, 187-197.	5.7	208
53	Scalable fabrication of size-controlled chitosan nanoparticles for oral delivery of insulin. Biomaterials, 2017, 130, 28-41.	5.7	200
54	Interactions of Phospholipid Bilayer with Chitosan:Â Effect of Molecular Weight and pH. Biomacromolecules, 2001, 2, 1161-1168.	2.6	198

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55	Myogenic Induction of Aligned Mesenchymal Stem Cell Sheets by Culture on Thermally Responsive Electrospun Nanofibers. Advanced Materials, 2007, 19, 2775-2779.	11.1	197
56	Rapid formation of multicellular spheroids in double-emulsion droplets with controllable microenvironment. Scientific Reports, 2013, 3, 3462.	1.6	196
57	Poly(Î±-hydroxy acids): carriers for bone morphogenetic proteins. Biomaterials, 1996, 17, 187-194.	5.7	195
58	Formation of Supramolecular Hydrogels Induced by Inclusion Complexation between Pluronics and Î±-Cyclodextrin. Macromolecules, 2001, 34, 7236-7237.	2.2	195
59	SOD Therapeutics: Latest Insights into Their Structure-Activity Relationships and Impact on the Cellular Redox-Based Signaling Pathways. Antioxidants and Redox Signaling, 2014, 20, 2372-2415.	2.5	194
60	Biophysical Regulation of Cell Behaviorâ€"Cross Talk between Substrate Stiffness and Nanotopography. Engineering, 2017, 3, 36-54.	3.2	193
61	Cationic Supramolecules Composed of Multiple Oligoethylenimine-Grafted Î²-Cyclodextrins Threaded on a Polymer Chain for Efficient Gene Delivery. Advanced Materials, 2006, 18, 2969-2974.	11.1	192
62	Design of therapeutic biomaterials to control inflammation. Nature Reviews Materials, 2022, 7, 557-574.	23.3	187
63	Microfluidic synthesis of multifunctional Janus particles for biomedical applications. Lab on A Chip, 2012, 12, 2097.	3.1	185
64	Photocrosslinkable polysaccharides based on chondroitin sulfate. Journal of Biomedical Materials Research Part B, 2004, 68A, 28-33.	3.0	183
65	Aligned coreâ€"shell nanofibers delivering bioactive proteins. Nanomedicine, 2006, 1, 465-471.	1.7	183
66	Engineering mesenchymal stem cells for regenerative medicine and drug delivery. Methods, 2015, 84, 3-16.	1.9	182
67	Targeted Epigenetic Remodeling of Endogenous Loci by CRISPR/Cas9-Based Transcriptional Activators Directly Converts Fibroblasts to Neuronal Cells. Cell Stem Cell, 2016, 19, 406-414.	5.2	182
68	Balancing protection and release of DNA: tools to address a bottleneck of non-viral gene delivery. Journal of the Royal Society Interface, 2010, 7, S67-82.	1.5	181
69	Mechanical properties of single electrospun drug-encapsulated nanofibres. Nanotechnology, 2006, 17, 3880-3891.	1.3	179
70	Gene Transfer by DNAâ€"Gelatin Nanospheres. Archives of Biochemistry and Biophysics, 1999, 361, 47-56.	1.4	177
71	Biodegradable and photocrosslinkable polyphosphoester hydrogel. Biomaterials, 2006, 27, 1027-1034.	5.7	176
72	A CRISPR/Cas9-Based System for Reprogramming Cell Lineage Specification. Stem Cell Reports, 2014, 3, 940-947.	2.3	176

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73	Peripheral nerve regeneration with sustained release of poly(phosphoester) microencapsulated nerve growth factor within nerve guide conduits. Biomaterials, 2003, 24, 2405-2412.	5.7	172
74	Harnessing Localized Ridges for Highâ€Aspectâ€Ratio Hierarchical Patterns with Dynamic Tunability and Multifunctionality. Advanced Materials, 2014, 26, 1763-1770.	11.1	171
75	A new nerve guide conduit material composed of a biodegradable poly(phosphoester). Biomaterials, 2001, 22, 1157-1169.	5.7	165
76	Evaluating the intracellular stability and unpacking of DNA nanocomplexes by quantum dots-FRET. Journal of Controlled Release, 2006, 116, 83-89.	4.8	162
77	Poly(L-lactic acid) foams with cell seeding and controlled-release capacity. Journal of Biomedical Materials Research Part B, 1996, 30, 475-484.	3.0	156
78	Controlled Gene Delivery by DNAâ€“Gelatin Nanospheres. Human Gene Therapy, 1998, 9, 1709-1717.	1.4	156
79	pH-sensitive polymeric nanoparticles for co-delivery of doxorubicin and curcumin to treat cancer via enhanced pro-apoptotic and anti-angiogenic activities. Acta Biomaterialia, 2017, 58, 349-364.	4.1	155
80	Guidance of stem cell fate on 2D patterned surfaces. Biomaterials, 2012, 33, 6626-6633.	5.7	154
81	Smart multifunctional drug delivery towards anticancer therapy harmonized in mesoporous nanoparticles. Nanoscale, 2015, 7, 14191-14216.	2.8	153
82	Mast cellâ€“derived particles deliver peripheral signals to remote lymph nodes. Journal of Experimental Medicine, 2009, 206, 2455-2467.	4.2	151
83	Emerging links between surface nanotechnology and endocytosis: Impact on nonviral gene delivery. Nano Today, 2010, 5, 553-569.	6.2	149
84	Microfluidic hydrodynamic focusing for synthesis of nanomaterials. Nano Today, 2016, 11, 778-792.	6.2	148
85	Peripheral nerve regeneration by microbraided poly(L-lactide-co-glycolide) biodegradable polymer fibers. Journal of Biomedical Materials Research Part B, 2004, 68A, 286-295.	3.0	146
86	Quantitative Comparison of Intracellular Unpacking Kinetics of Polyplexes by a Model Constructed From Quantum Dot-FRET. Molecular Therapy, 2008, 16, 324-332.	3.7	145
87	Effect of Electromechanical Stimulation on the Maturation of Myotubes on Aligned Electrospun Fibers. Cellular and Molecular Bioengineering, 2008, 1, 133-145.	1.0	144
88	Synthesis and Characterization of New Biodegradable Amphiphilic Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (oxide)-b- 2003, 36, 2661-2667.	2.2	143
89	Sustained viral gene delivery through core-shell fibers. Journal of Controlled Release, 2009, 139, 48-55.	4.8	143
90	Engineering Cell Membraneâ€Based Nanotherapeutics to Target Inflammation. Advanced Science, 2019, 6, 1900605.	5.6	143

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91	Intranasal Gene Transfer by Chitosanâ€“DNA Nanospheres Protects BALB/c Mice Against Acute Respiratory Syncytial Virus Infection. Human Gene Therapy, 2002, 13, 1415-1425.	1.4	139
92	Immobilization of Galactose Ligands on Acrylic Acid Graft-Copolymerized Poly(ethylene terephthalate) Film and Its Application to Hepatocyte Culture. Biomacromolecules, 2003, 4, 157-165.	2.6	139
93	Designing Zonal Organization into Tissue-Engineered Cartilage. Tissue Engineering, 2007, 13, 405-414.	4.9	139
94	Engineered materials for in vivo delivery of genome-editing machinery. Nature Reviews Materials, 2019, 4, 726-737.	23.3	139
95	Multi-component nanorods for vaccination applications. Nanotechnology, 2005, 16, 484-487.	1.3	135
96	Transcription Factors MYOCD, SRF, Mesp1 and SMARCD3 Enhance the Cardio-Inducing Effect of GATA4, TBX5, and MEF2C during Direct Cellular Reprogramming. PLoS ONE, 2013, 8, e63577.	1.1	135
97	Inducing hepatic differentiation of human mesenchymal stem cells in pellet culture. Biomaterials, 2006, 27, 4087-4097.	5.7	134
98	Substrate topography shapes cell function. Soft Matter, 2009, 5, 4072.	1.2	134
99	Light: A Magical Tool for Controlled Drug Delivery. Advanced Functional Materials, 2020, 30, 2005029.	7.8	134
100	Nanotopography as modulator of human mesenchymal stem cell function. Biomaterials, 2012, 33, 4998-5003.	5.7	133
101	Cell-laden microfluidic microgels for tissue regeneration. Lab on A Chip, 2016, 16, 4482-4506.	3.1	133
102	Dynamic Topographical Control of Mesenchymal Stem Cells by Culture on Responsive Poly(ïµâ€caprolactone) Surfaces. Advanced Materials, 2011, 23, 3278-3283.	11.1	132
103	Temperature-Controlled Encapsulation and Release of an Active Enzyme in the Cavity of a Self-Assembled DNA Nanocage. ACS Nano, 2013, 7, 9724-9734.	7.3	132
104	Recent Advances in Nanoparticle-Mediated siRNA Delivery. Annual Review of Biomedical Engineering, 2014, 16, 347-370.	5.7	131
105	Expansion of engrafting human hematopoietic stem/progenitor cells in threeâ€dimensional scaffolds with surfaceâ€immobilized fibronectin. Journal of Biomedical Materials Research - Part A, 2006, 78A, 781-791.	2.1	129
106	Cationic nanoparticle as an inhibitor of cell-free DNA-induced inflammation. Nature Communications, 2018, 9, 4291.	5.8	129
107	Chitosan-g-PEG/DNA complexes deliver gene to the rat liver via intrabiliary and intraportal infusions. Journal of Gene Medicine, 2006, 8, 477-487.	1.4	127
108	Functional nanofiber scaffolds with different spacers modulate adhesion and expansion of cryopreserved umbilical cord blood hematopoietic stem/progenitor cells. Experimental Hematology, 2007, 35, 771-781.	0.2	127

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109	MicroRNA delivery for regenerative medicine. Advanced Drug Delivery Reviews, 2015, 88, 108-122.	6.6	125
110	Walking the line: The fate of nanomaterials at biological barriers. Biomaterials, 2018, 174, 41-53.	5.7	125
111	Transfection efficiency and transgene expression kinetics of mRNA delivered in naked and nanoparticle format. Journal of Controlled Release, 2013, 166, 227-233.	4.8	123
112	Diverse functions of cationic Mn(III) N-substituted pyridylporphyrins, recognized as SOD mimics. Free Radical Biology and Medicine, 2011, 51, 1035-1053.	1.3	122
113	Nucleic acid-binding polymers as anti-inflammatory agents. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14055-14060.	3.3	122
114	Biomimetic Diselenideâ€Bridged Mesoporous Organosilica Nanoparticles as an Xâ€rayâ€Responsive Biodegradable Carrier for Chemoâ€Immunotherapy. Advanced Materials, 2020, 32, e2004385.	11.1	122
115	New polyphosphoramidate with a spermidine side chain as a gene carrier. Journal of Controlled Release, 2002, 83, 157-168.	4.8	120
116	Polyphosphoester microspheres for sustained release of biologically active nerve growth factor. Biomaterials, 2002, 23, 3765-3772.	5.7	120
117	Biocompatibility of a Biodegradable, Controlled-Release Polymer in the Rabbit Brain. Selective Cancer Therapeutics, 1989, 5, 55-65.	0.5	118
118	Novel anisotropic engineered cardiac tissues: Studies of electrical propagation. Biochemical and Biophysical Research Communications, 2007, 361, 847-853.	1.0	117
119	Enhanced gene expression in mouse muscle by sustained release of plasmid DNA using PPE-EA as a carrier. Gene Therapy, 2002, 9, 1254-1261.	2.3	116
120	Hepatocyte Encapsulation for Enhanced Cellular Functions. Tissue Engineering, 2000, 6, 481-495.	4.9	113
121	Polyanhydrides for controlled release of bioactive agents. Biomaterials, 1986, 7, 364-371.	5.7	111
122	Progress in Nanotheranostics Based on Mesoporous Silica Nanomaterial Platforms. ACS Applied Materials & Interfaces, 2017, 9, 10309-10337.	4.0	111
123	Three-dimensional co-culture of rat hepatocyte spheroids and NIH/3T3 fibroblasts enhances hepatocyte functional maintenance. Acta Biomaterialia, 2005, 1, 399-410.	4.1	110
124	Development of universal antidotes to control aptamer activity. Nature Medicine, 2009, 15, 1224-1228.	15.2	108
125	Controlled release from fibers of polyelectrolyte complexes. Journal of Controlled Release, 2005, 104, 347-358.	4.8	106
126	Codelivery of CRISPR-Cas9 and chlorin e6 for spatially controlled tumor-specific gene editing with synergistic drug effects. Science Advances, 2020, 6, eabb4005.	4.7	106

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127	In Vitro Gene Delivery Using Polyamidoamine Dendrimers with a Trimesyl Coreâ€. Biomacromolecules, 2005, 6, 341-350.	2.6	103
128	Spatial metagenomic characterization of microbial biogeography in the gut. Nature Biotechnology, 2019, 37, 877-883.	9.4	103
129	Synthesis of polyanhydrides: melt-polycondensation, dehydrochlorination, and dehydrative coupling. Macromolecules, 1987, 20, 705-712.	2.2	100
130	Chitosan nanoparticles containing plasmid DNA encoding house dust mite allergen, Der p 1 for oral vaccination in mice. Vaccine, 2003, 21, 2720-2729.	1.7	99
131	Functional Recovery of Contused Spinal Cord in Rat with the Injection of Optimalâ€Dosed Cerium Oxide Nanoparticles. Advanced Science, 2017, 4, 1700034.	5.6	99
132	Effects of nanoimprinted patterns in tissue-culture polystyrene on cell behavior. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 2984.	1.6	98
133	Ocular nanoparticle toxicity and transfection of the retina and retinal pigment epithelium. Nanomedicine: Nanotechnology, Biology, and Medicine, 2008, 4, 340-349.	1.7	97
134	Near-Infrared Fluorescent Nanoprobes for in Vivo Optical Imaging. Nanomaterials, 2012, 2, 92-112.	1.9	95
135	Poly(d,llactideâ€“co-ethyl ethylene phosphate)s as new drug carriers. Journal of Controlled Release, 2003, 92, 39-48.	4.8	94
136	Surface-immobilization of adhesion peptides on substrate for ex vivo expansion of cryopreserved umbilical cord blood CD34+ cells. Biomaterials, 2006, 27, 2723-2732.	5.7	94
137	Intranasal mRNA nanoparticle vaccination induces prophylactic and therapeutic anti-tumor immunity. Scientific Reports, 2014, 4, 5128.	1.6	94
138	Treatment of severe sepsis with nanoparticulate cell-free DNA scavengers. Science Advances, 2020, 6, eaay7148.	4.7	94
139	Micellization Phenomena of Biodegradable Amphiphilic Triblock Copolymers Consisting of Poly(Î²-hydroxyalkanoic acid) and Poly(ethylene oxide). Langmuir, 2005, 21, 8681-8685.	1.6	93
140	Phase II Randomized Trial of Autologous Formalin-Fixed Tumor Vaccine for Postsurgical Recurrence of Hepatocellular Carcinoma. Clinical Cancer Research, 2004, 10, 1574-1579.	3.2	92
141	Transport of chitosanâ€“DNA nanoparticles in human intestinal M-cell model versus normal intestinal enterocytes. European Journal of Pharmaceutical Sciences, 2010, 39, 103-109.	1.9	92
142	Nucleic acid scavengers inhibit thrombosis without increasing bleeding. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12938-12943.	3.3	92
143	Uniform Coreâ€“Shell Nanoparticles with Thiolated Hyaluronic Acid Coating to Enhance Oral Delivery of Insulin. Advanced Healthcare Materials, 2018, 7, e1800285.	3.9	90
144	Synthetic mast-cell granules as adjuvants to promote and polarize immunity in lymph nodes. Nature Materials, 2012, 11, 250-257.	13.3	89

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145	Efficient Oneâ€Step Production of Microencapsulated Hepatocyte Spheroids with Enhanced Functions. Small, 2016, 12, 2720-2730.	5.2	89
146	A programmable encapsulation system improves delivery of therapeutic bacteria in mice. Nature Biotechnology, 2022, 40, 1259-1269.	9.4	89
147	Galactosylated ternary DNA/polyphosphoramidate nanoparticles mediate high gene transfection efficiency in hepatocytes. Journal of Controlled Release, 2005, 102, 749-763.	4.8	88
148	Interaction of Human Mesenchymal Stem Cells With Disc Cells. Spine, 2006, 31, 2036-2042.	1.0	87
149	In Vitro Chondrogenesis of Mesenchymal Stem Cells in Recombinant Silk-elastinlike Hydrogels. Pharmaceutical Research, 2008, 25, 692-699.	1.7	87
150	Gene transfer to hemophilia A mice via oral delivery of FVIIIâ€“chitosan nanoparticles. Journal of Controlled Release, 2008, 132, 252-259.	4.8	87
151	A nanoparticulate dual scavenger for targeted therapy of inflammatory bowel disease. Science Advances, 2022, 8, eabj2372.	4.7	87
152	Controlled local delivery of interleukin-2 by biodegradable polymers protects animals from experimental brain tumors and liver tumors. Pharmaceutical Research, 2001, 18, 899-906.	1.7	86
153	Effects of Topographical and Mechanical Property Alterations Induced by Oxygen Plasma Modification on Stem Cell Behavior. ACS Nano, 2012, 6, 8591-8598.	7.3	86
154	A programmable microenvironment for cellular studies via microfluidics-generated double emulsions. Biomaterials, 2013, 34, 4564-4572.	5.7	86
155	Hydrogen-Bonded Tannic Acid-Based Anticancer Nanoparticle for Enhancement of Oral Chemotherapy. ACS Applied Materials & Interfaces, 2018, 10, 42186-42197.	4.0	85
156	Scaffold-free, Human Mesenchymal Stem Cell-Based Tissue Engineered Blood Vessels. Scientific Reports, 2015, 5, 15116.	1.6	84
157	Sustained delivery of siRNA/mesoporous silica nanoparticle complexes from nanofiber scaffolds for long-term gene silencing. Acta Biomaterialia, 2018, 76, 164-177.	4.1	84
158	The NIH Somatic Cell Genome Editing program. Nature, 2021, 592, 195-204.	13.7	84
159	Galactosylated PVDF membrane promotes hepatocyte attachment and functional maintenance. Biomaterials, 2003, 24, 4893-4903.	5.7	82
160	Hyperbranched Poly(amino ester)s with Different Terminal Amine Groups for DNA Delivery. Biomacromolecules, 2006, 7, 1879-1883.	2.6	81
161	Droplet Microfluidics Platform for Highly Sensitive and Quantitative Detection of Malaria-Causing Plasmodium Parasites Based on Enzyme Activity Measurement. ACS Nano, 2012, 6, 10676-10683.	7.3	81
162	Evaluation of polyphosphates and polyphosphonates as degradable biomaterials. Journal of Biomedical Materials Research Part B, 1991, 25, 1151-1167.	3.0	80

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163	Block-Selected Molecular Recognition and Formation of Polypseudorotaxanes between Poly(propylene oxide)-Poly(ethylene oxide)-Poly(propylene oxide) Triblock Copolymers andÎ±-Cyclodextrin. Angewandte Chemie - International Edition, 2003, 42, 69-72.	7.2	80
164	Repeated intrathecal administration of plasmid DNA complexed with polyethylene glycol-grafted polyethylenimine led to prolonged transgene expression in the spinal cord. Gene Therapy, 2003, 10, 1179-1188.	2.3	79
165	The effect of substrate topography on direct reprogramming of fibroblasts to induced neurons. Biomaterials, 2014, 35, 5327-5336.	5.7	79
166	Water-Soluble and Nonionic Polyphosphoester:Â Synthesis, Degradation, Biocompatibility and Enhancement of Gene Expression in Mouse Muscle. Biomacromolecules, 2004, 5, 306-311.	2.6	78
167	Viscoelastic behaviour of human mesenchymal stem cells. BMC Cell Biology, 2008, 9, 40.	3.0	78
168	HPV Oncogene Manipulation Using Nonvirally Delivered CRISPR/Cas9 or Natronobacterium gregoryi Argonaute. Advanced Science, 2018, 5, 1700540.	5.6	78
169	3D Printing: 3D Printing of Highly Stretchable and Tough Hydrogels into Complex, Cellularized Structures (Adv. Mater. 27/2015). Advanced Materials, 2015, 27, 4034-4034.	11.1	77
170	Fabrication of poly(phosphoester) nerve guides by immersion precipitation and the control of porosity. Biomaterials, 2001, 22, 1147-1156.	5.7	76
171	Mechanism of Fiber Formation by Interfacial Polyelectrolyte Complexation. Macromolecules, 2004, 37, 7019-7025.	2.2	74
172	Mechanism of oral tolerance induction to therapeutic proteins. Advanced Drug Delivery Reviews, 2013, 65, 759-773.	6.6	74
173	Multi-layered microcapsules for cell encapsulation. Biomaterials, 2002, 23, 849-856.	5.7	73
174	Dynamic and Static Light Scattering Studies on Self-Aggregation Behavior of Biodegradable Amphiphilic Poly(ethylene oxide)â^'Poly[(R)-3-hydroxybutyrate]â^'Poly(ethylene oxide) Triblock Copolymers in Aqueous Solution. Journal of Physical Chemistry B, 2006, 110, 5920-5926.	1.2	73
175	A DAMP-scavenging, IL-10-releasing hydrogel promotes neural regeneration and motor function recovery after spinal cord injury. Biomaterials, 2022, 280, 121279.	5.7	73
176	Thermally responsive polymeric micellar nanoparticles self-assembled from cholesteryl end-capped random poly(N-isopropylacrylamide-co-N,N-dimethylacrylamide): synthesis, temperature-sensitivity, and morphologies. Journal of Colloid and Interface Science, 2003, 266, 295-303.	5.0	72
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