

Kam Leong

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464
papers

39,318
citations

106
h-index

182
g-index

492
ext. papers

43,396
ext. citations

10.7
avg, IF

7.56
L-index

#	Paper	IF	Citations
464	Biomedical applications of polymer-composite materials: a review. <i>Composites Science and Technology</i> , 2001 , 61, 1189-1224	8.6	1037
463	Chitosan-DNA nanoparticles as gene carriers: synthesis, characterization and transfection efficiency. <i>Journal of Controlled Release</i> , 2001 , 70, 399-421	11.7	1030
462	Oral gene delivery with chitosan--DNA nanoparticles generates immunologic protection in a murine model of peanut allergy. <i>Nature Medicine</i> , 1999 , 5, 387-91	50.5	989
461	Scaffolding in tissue engineering: general approaches and tissue-specific considerations. <i>European Spine Journal</i> , 2008 , 17 Suppl 4, 467-79	2.7	917
460	RNA-guided gene activation by CRISPR-Cas9-based transcription factors. <i>Nature Methods</i> , 2013 , 10, 973-61.6	11.6	861
459	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
458	Advanced materials and processing for drug delivery: the past and the future. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 104-20	18.5	708
457	Multifunctional nanorods for gene delivery. <i>Nature Materials</i> , 2003 , 2, 668-71	27	647
456	Synthetic nanostructures inducing differentiation of human mesenchymal stem cells into neuronal lineage. <i>Experimental Cell Research</i> , 2007 , 313, 1820-9	4.2	634
455	3D Printing of Highly Stretchable and Tough Hydrogels into Complex, Cellularized Structures. <i>Advanced Materials</i> , 2015 , 27, 4035-40	24	577
454	Natural polymers for gene delivery and tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 2006 , 58, 487-99	18.5	565
453	Nanotopography-induced changes in focal adhesions, cytoskeletal organization, and mechanical properties of human mesenchymal stem cells. <i>Biomaterials</i> , 2010 , 31, 1299-306	15.6	561
452	Nanopattern-induced changes in morphology and motility of smooth muscle cells. <i>Biomaterials</i> , 2005 , 26, 5405-13	15.6	537
451	Sustained release of proteins from electrospun biodegradable fibers. <i>Biomacromolecules</i> , 2005 , 6, 2017-24	11.6	489
450	DNA-polycation nanospheres as non-viral gene delivery vehicles. <i>Journal of Controlled Release</i> , 1998 , 53, 183-93	11.7	450
449	Bioerodible polyanhydrides as drug-carrier matrices. I: Characterization, degradation, and release characteristics. <i>Journal of Biomedical Materials Research Part B</i> , 1985 , 19, 941-55		418
448	Electrohydrodynamics: A facile technique to fabricate drug delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2009 , 61, 1043-54	18.5	417

447	The effect of the alignment of electrospun fibrous scaffolds on Schwann cell maturation. <i>Biomaterials</i> , 2008 , 29, 653-61	15.6	409
446	In vivo wound healing of diabetic ulcers using electrospun nanofibers immobilized with human epidermal growth factor (EGF). <i>Biomaterials</i> , 2008 , 29, 587-96	15.6	400
445	Self-assembled supramolecular hydrogels formed by biodegradable PEO-PHB-PEO triblock copolymers and alpha-cyclodextrin for controlled drug delivery. <i>Biomaterials</i> , 2006 , 27, 4132-40	15.6	396
444	Controlled release of heparin from poly(epsilon-caprolactone) electrospun fibers. <i>Biomaterials</i> , 2006 , 27, 2042-50	15.6	365
443	Simultaneous delivery of siRNA and paclitaxel via a "two-in-one" micelleplex promotes synergistic tumor suppression. <i>ACS Nano</i> , 2011 , 5, 1483-94	16.7	359
442	Polyethylenimine-grafted multiwalled carbon nanotubes for secure noncovalent immobilization and efficient delivery of DNA. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4782-5	16.4	320
441	Chitosan nanoparticles for oral drug and gene delivery. <i>International Journal of Nanomedicine</i> , 2006 , 1, 117-28	7.3	306
440	Aligned Protein-Polymer Composite Fibers Enhance Nerve Regeneration: A Potential Tissue-Engineering Platform. <i>Advanced Functional Materials</i> , 2007 , 17, 1288-1296	15.6	304
439	The effect of the degree of chitosan deacetylation on the efficiency of gene transfection. <i>Biomaterials</i> , 2004 , 25, 5293-301	15.6	292
438	CRISPR/Cas9-Based Genome Editing for Disease Modeling and Therapy: Challenges and Opportunities for Nonviral Delivery. <i>Chemical Reviews</i> , 2017 , 117, 9874-9906	68.1	287
437	Characterization of topographical effects on macrophage behavior in a foreign body response model. <i>Biomaterials</i> , 2010 , 31, 3479-91	15.6	273
436	Polyphosphoesters in drug and gene delivery. <i>Advanced Drug Delivery Reviews</i> , 2003 , 55, 483-99	18.5	264
435	A novel biodegradable gene carrier based on polyphosphoester. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9480-1	16.4	242
434	Significance of synthetic nanostructures in dictating cellular response. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2005 , 1, 10-21	6	240
433	Biomaterials approach to expand and direct differentiation of stem cells. <i>Molecular Therapy</i> , 2007 , 15, 467-80	11.7	239
432	Stable immobilization of rat hepatocyte spheroids on galactosylated nanofiber scaffold. <i>Biomaterials</i> , 2005 , 26, 2537-47	15.6	237
431	PEI-g-chitosan, a novel gene delivery system with transfection efficiency comparable to polyethylenimine in vitro and after liver administration in vivo. <i>Bioconjugate Chemistry</i> , 2006 , 17, 152-8	6.3	233
430	Injectable drug-delivery systems based on supramolecular hydrogels formed by poly(ethylene oxide)s and alpha-cyclodextrin. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 65, 196-202		228

429	Fabrication of controlled release biodegradable foams by phase separation. <i>Tissue Engineering</i> , 1995 , 1, 15-28		225
428	The role of electrospinning in the emerging field of nanomedicine. <i>Current Pharmaceutical Design</i> , 2006 , 12, 4751-70	3.3	222
427	Quantum dot-based theranostics. <i>Nanoscale</i> , 2010 , 2, 60-8	7.7	220
426	Surface-aminated electrospun nanofibers enhance adhesion and expansion of human umbilical cord blood hematopoietic stem/progenitor cells. <i>Biomaterials</i> , 2006 , 27, 6043-51	15.6	220
425	Temperature-responsive hydroxybutyl chitosan for the culture of mesenchymal stem cells and intervertebral disk cells. <i>Biomaterials</i> , 2006 , 27, 406-18	15.6	207
424	Preparation and characterization of polypseudorotaxanes based on block-selected inclusion complexation between poly(propylene oxide)-poly(ethylene oxide)-poly(propylene oxide) triblock copolymers and alpha-cyclodextrin. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1788-95	16.4	206
423	Cartilage tissue engineering using differentiated and purified induced pluripotent stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19172-7	11.5	202
422	In vitro and in vivo models for the study of oral delivery of nanoparticles. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 800-10	18.5	199
421	Bioerodible polyanhydrides as drug-carrier matrices. II. Biocompatibility and chemical reactivity. <i>Journal of Biomedical Materials Research Part B</i> , 1986 , 20, 51-64		195
420	Formation of Supramolecular Hydrogels Induced by Inclusion Complexation between Pluronic and β Cyclodextrin. <i>Macromolecules</i> , 2001 , 34, 7236-7237	5.5	184
419	Bioinspired Diselenide-Bridged Mesoporous Silica Nanoparticles for Dual-Responsive Protein Delivery. <i>Advanced Materials</i> , 2018 , 30, e1801198	24	184
418	Cationic Supramolecules Composed of Multiple Oligoethylenimine-Grafted β Cyclodextrins Threaded on a Polymer Chain for Efficient Gene Delivery. <i>Advanced Materials</i> , 2006 , 18, 2969-2974	24	182
417	Interactions of phospholipid bilayer with chitosan: effect of molecular weight and pH. <i>Biomacromolecules</i> , 2001 , 2, 1161-8	6.9	182
416	Pluripotent stem cell-derived cardiac tissue patch with advanced structure and function. <i>Biomaterials</i> , 2011 , 32, 9180-7	15.6	181
415	Poly(alpha-hydroxy acids): carriers for bone morphogenetic proteins. <i>Biomaterials</i> , 1996 , 17, 187-94	15.6	181
414	Aptamer nanomedicine for cancer therapeutics: barriers and potential for translation. <i>ACS Nano</i> , 2015 , 9, 2235-54	16.7	180
413	Myogenic Induction of Aligned Mesenchymal Stem Cell Sheets by Culture on Thermally Responsive Electrospun Nanofibers. <i>Advanced Materials</i> , 2007 , 19, 2775-2779	24	179
412	Advanced drug delivery systems and artificial skin grafts for skin wound healing. <i>Advanced Drug Delivery Reviews</i> , 2019 , 146, 209-239	18.5	170

411	SOD therapeutics: latest insights into their structure-activity relationships and impact on the cellular redox-based signaling pathways. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 2372-415	8.4	164
410	Balancing protection and release of DNA: tools to address a bottleneck of non-viral gene delivery. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 1, S67-82	4.1	163
409	Photocrosslinkable polysaccharides based on chondroitin sulfate. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 68, 28-33		163
408	Rapid formation of multicellular spheroids in double-emulsion droplets with controllable microenvironment. <i>Scientific Reports</i> , 2013 , 3, 3462	4.9	162
407	Aligned core-shell nanofibers delivering bioactive proteins. <i>Nanomedicine</i> , 2006 , 1, 465-71	5.6	162
406	Biodegradable and photocrosslinkable polyphosphoester hydrogel. <i>Biomaterials</i> , 2006 , 27, 1027-34	15.6	161
405	Gene transfer by DNA-gelatin nanospheres. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 361, 47-56	4.1	160
404	Mechanical properties of single electrospun drug-encapsulated nanofibres. <i>Nanotechnology</i> , 2006 , 17, 3880-3891	3.4	158
403	Peripheral nerve regeneration with sustained release of poly(phosphoester) microencapsulated nerve growth factor within nerve guide conduits. <i>Biomaterials</i> , 2003 , 24, 2405-12	15.6	156
402	Scalable fabrication of size-controlled chitosan nanoparticles for oral delivery of insulin. <i>Biomaterials</i> , 2017 , 130, 28-41	15.6	155
401	A new nerve guide conduit material composed of a biodegradable poly(phosphoester). <i>Biomaterials</i> , 2001 , 22, 1157-69	15.6	154
400	Nonviral gene editing via CRISPR/Cas9 delivery by membrane-disruptive and endosomolytic helical polypeptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4903-4908	11.5	153
399	Evaluating the intracellular stability and unpacking of DNA nanocomplexes by quantum dots-FRET. <i>Journal of Controlled Release</i> , 2006 , 116, 83-9	11.7	153
398	Microfluidic synthesis of multifunctional Janus particles for biomedical applications. <i>Lab on A Chip</i> , 2012 , 12, 2097-102	7.2	152
397	Surface charge critically affects tumor penetration and therapeutic efficacy of cancer nanomedicines. <i>Nano Today</i> , 2016 , 11, 133-144	17.9	151
396	Harnessing localized ridges for high-aspect-ratio hierarchical patterns with dynamic tunability and multifunctionality. <i>Advanced Materials</i> , 2014 , 26, 1763-70	24	147
395	A CRISPR/Cas9-based system for reprogramming cell lineage specification. <i>Stem Cell Reports</i> , 2014 , 3, 940-7	8	147
394	Inducing enhanced immunogenic cell death with nanocarrier-based drug delivery systems for pancreatic cancer therapy. <i>Biomaterials</i> , 2016 , 102, 187-97	15.6	143

393	Emerging links between surface nanotechnology and endocytosis: impact on nonviral gene delivery. <i>Nano Today</i> , 2010 , 5, 553-569	17.9	143
392	Targeted Epigenetic Remodeling of Endogenous Loci by CRISPR/Cas9-Based Transcriptional Activators Directly Converts Fibroblasts to Neuronal Cells. <i>Cell Stem Cell</i> , 2016 , 19, 406-14	18	139
391	Guidance of stem cell fate on 2D patterned surfaces. <i>Biomaterials</i> , 2012 , 33, 6626-33	15.6	136
390	Quantitative comparison of intracellular unpacking kinetics of polyplexes by a model constructed from quantum dot-FRET. <i>Molecular Therapy</i> , 2008 , 16, 324-32	11.7	133
389	Peripheral nerve regeneration by microbraided poly(L-lactide-co-glycolide) biodegradable polymer fibers. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 68, 286-95		133
388	Synthesis and Characterization of New Biodegradable Amphiphilic Poly(ethylene oxide)-b-poly[(R)-3-hydroxy butyrate]-b-poly(ethylene oxide) Triblock Copolymers. <i>Macromolecules</i> , 2003 , 36, 2661-2667	5.5	133
387	Immobilization of galactose ligands on acrylic acid graft-copolymerized poly(ethylene terephthalate) film and its application to hepatocyte culture. <i>Biomacromolecules</i> , 2003 , 4, 157-65	6.9	133
386	Controlled gene delivery by DNA-gelatin nanospheres. <i>Human Gene Therapy</i> , 1998 , 9, 1709-17	4.8	132
385	Poly(L-lactic acid) foams with cell seeding and controlled-release capacity. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 30, 475-84		132
384	Sustained viral gene delivery through core-shell fibers. <i>Journal of Controlled Release</i> , 2009 , 139, 48-55	11.7	131
383	Mast cell-derived particles deliver peripheral signals to remote lymph nodes. <i>Journal of Experimental Medicine</i> , 2009 , 206, 2455-67	16.6	130
382	Biophysical Regulation of Cell Behavior-Cross Talk between Substrate Stiffness and Nanotopography. <i>Engineering</i> , 2017 , 3, 36-54	9.7	129
381	Smart multifunctional drug delivery towards anticancer therapy harmonized in mesoporous nanoparticles. <i>Nanoscale</i> , 2015 , 7, 14191-216	7.7	129
380	Engineering mesenchymal stem cells for regenerative medicine and drug delivery. <i>Methods</i> , 2015 , 84, 3-16	4.6	129
379	Multi-component nanorods for vaccination applications. <i>Nanotechnology</i> , 2005 , 16, 484-487	3.4	128
378	Designing zonal organization into tissue-engineered cartilage. <i>Tissue Engineering</i> , 2007 , 13, 405-14		125
377	Nanotopography as modulator of human mesenchymal stem cell function. <i>Biomaterials</i> , 2012 , 33, 4998-5003	10.3	124
376	Effect of Electromechanical Stimulation on the Maturation of Myotubes on Aligned Electrospun Fibers. <i>Cellular and Molecular Bioengineering</i> , 2008 , 1, 133-145	3.9	124

375	Intranasal gene transfer by chitosan-DNA nanospheres protects BALB/c mice against acute respiratory syncytial virus infection. <i>Human Gene Therapy</i> , 2002 , 13, 1415-25	4.8	123
374	A materials-science perspective on tackling COVID-19. <i>Nature Reviews Materials</i> , 2020 , 1-14	73.3	123
373	Dynamic topographical control of mesenchymal stem cells by culture on responsive poly(ε-caprolactone) surfaces. <i>Advanced Materials</i> , 2011 , 23, 3278-83	24	122
372	pH-sensitive polymeric nanoparticles for co-delivery of doxorubicin and curcumin to treat cancer via enhanced pro-apoptotic and anti-angiogenic activities. <i>Acta Biomaterialia</i> , 2017 , 58, 349-364	10.8	117
371	Chitosan-g-PEG/DNA complexes deliver gene to the rat liver via intrabiliary and intraportal infusions. <i>Journal of Gene Medicine</i> , 2006 , 8, 477-87	3.5	117
370	Inducing hepatic differentiation of human mesenchymal stem cells in pellet culture. <i>Biomaterials</i> , 2006 , 27, 4087-97	15.6	116
369	Expansion of engrafting human hematopoietic stem/progenitor cells in three-dimensional scaffolds with surface-immobilized fibronectin. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 78, 781-91	5.4	115
368	Substrate topography shapes cell function. <i>Soft Matter</i> , 2009 , 5, 4072	3.6	114
367	Recent advances in nanoparticle-mediated siRNA delivery. <i>Annual Review of Biomedical Engineering</i> , 2014 , 16, 347-70	12	113
366	Temperature-controlled encapsulation and release of an active enzyme in the cavity of a self-assembled DNA nanocage. <i>ACS Nano</i> , 2013 , 7, 9724-34	16.7	113
365	Functional nanofiber scaffolds with different spacers modulate adhesion and expansion of cryopreserved umbilical cord blood hematopoietic stem/progenitor cells. <i>Experimental Hematology</i> , 2007 , 35, 771-81	3.1	112
364	Diverse functions of cationic Mn(III) N-substituted pyridylporphyrins, recognized as SOD mimics. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 1035-53	7.8	111
363	Polyphosphoester microspheres for sustained release of biologically active nerve growth factor. <i>Biomaterials</i> , 2002 , 23, 3765-72	15.6	111
362	New polyphosphoramidate with a spermidine side chain as a gene carrier. <i>Journal of Controlled Release</i> , 2002 , 83, 157-68	11.7	109
361	Enhanced gene expression in mouse muscle by sustained release of plasmid DNA using PPE-EA as a carrier. <i>Gene Therapy</i> , 2002 , 9, 1254-61	4	109
360	Biocompatibility of a biodegradable, controlled-release polymer in the rabbit brain. <i>Selective Cancer Therapeutics</i> , 1989 , 5, 55-65		109
359	Novel anisotropic engineered cardiac tissues: studies of electrical propagation. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 361, 847-53	3.4	107
358	Hepatocyte encapsulation for enhanced cellular functions. <i>Tissue Engineering</i> , 2000 , 6, 481-95		106

357	Transcription factors MYOCD, SRF, Mesp1 and SMARCD3 enhance the cardio-inducing effect of GATA4, TBX5, and MEF2C during direct cellular reprogramming. <i>PLoS ONE</i> , 2013 , 8, e63577	3.7	105
356	Three-dimensional co-culture of rat hepatocyte spheroids and NIH/3T3 fibroblasts enhances hepatocyte functional maintenance. <i>Acta Biomaterialia</i> , 2005 , 1, 399-410	10.8	99
355	Controlled release from fibers of polyelectrolyte complexes. <i>Journal of Controlled Release</i> , 2005 , 104, 347-58	11.7	99
354	MicroRNA delivery for regenerative medicine. <i>Advanced Drug Delivery Reviews</i> , 2015 , 88, 108-22	18.5	98
353	Transfection efficiency and transgene expression kinetics of mRNA delivered in naked and nanoparticle format. <i>Journal of Controlled Release</i> , 2013 , 166, 227-33	11.7	96
352	In vitro gene delivery using polyamidoamine dendrimers with a trimesyl core. <i>Biomacromolecules</i> , 2005 , 6, 341-50	6.9	96
351	Microfluidic Hydrodynamic Focusing for Synthesis of Nanomaterials. <i>Nano Today</i> , 2016 , 11, 778-792	17.9	95
350	Polyanhydrides for controlled release of bioactive agents. <i>Biomaterials</i> , 1986 , 7, 364-71	15.6	94
349	Walking the line: The fate of nanomaterials at biological barriers. <i>Biomaterials</i> , 2018 , 174, 41-53	15.6	93
348	Cell-laden microfluidic microgels for tissue regeneration. <i>Lab on A Chip</i> , 2016 , 16, 4482-4506	7.2	92
347	Nucleic acid-binding polymers as anti-inflammatory agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 14055-60	11.5	90
346	Poly(D,L-lactide-co-ethyl ethylene phosphate)s as new drug carriers. <i>Journal of Controlled Release</i> , 2003 , 92, 39-48	11.7	89
345	Chitosan nanoparticles containing plasmid DNA encoding house dust mite allergen, Der p 1 for oral vaccination in mice. <i>Vaccine</i> , 2003 , 21, 2720-9	4.1	89
344	Engineering Cell Membrane-Based Nanotherapeutics to Target Inflammation. <i>Advanced Science</i> , 2019 , 6, 1900605	13.6	88
343	Development of universal antidotes to control aptamer activity. <i>Nature Medicine</i> , 2009 , 15, 1224-8	50.5	88
342	Effects of nanoimprinted patterns in tissue-culture polystyrene on cell behavior. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 2984-2989		87
341	Near-Infrared Fluorescent Nanoprobes for in Vivo Optical Imaging. <i>Nanomaterials</i> , 2012 , 2, 92-112	5.4	86
340	Micellization phenomena of biodegradable amphiphilic triblock copolymers consisting of poly(beta-hydroxyalkanoic acid) and poly(ethylene oxide). <i>Langmuir</i> , 2005 , 21, 8681-5	4	86

339	Surface-immobilization of adhesion peptides on substrate for ex vivo expansion of cryopreserved umbilical cord blood CD34+ cells. <i>Biomaterials</i> , 2006 , 27, 2723-32	15.6	86
338	Progress in Nanotheranostics Based on Mesoporous Silica Nanomaterial Platforms. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10309-10337	9.5	84
337	Phase II randomized trial of autologous formalin-fixed tumor vaccine for postsurgical recurrence of hepatocellular carcinoma. <i>Clinical Cancer Research</i> , 2004 , 10, 1574-9	12.9	82
336	Galactosylated ternary DNA/polyphosphoramidate nanoparticles mediate high gene transfection efficiency in hepatocytes. <i>Journal of Controlled Release</i> , 2005 , 102, 749-63	11.7	82
335	Synthesis of polyanhydrides: melt-polycondensation, dehydrochlorination, and dehydrative coupling. <i>Macromolecules</i> , 1987 , 20, 705-712	5.5	82
334	Nucleic acid scavengers inhibit thrombosis without increasing bleeding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12938-43	11.5	81
333	Ocular nanoparticle toxicity and transfection of the retina and retinal pigment epithelium. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2008 , 4, 340-9	6	80
332	Controlled local delivery of interleukin-2 by biodegradable polymers protects animals from experimental brain tumors and liver tumors. <i>Pharmaceutical Research</i> , 2001 , 18, 899-906	4.5	80
331	Gene transfer to hemophilia A mice via oral delivery of FVIII-chitosan nanoparticles. <i>Journal of Controlled Release</i> , 2008 , 132, 252-9	11.7	79
330	Galactosylated PVDF membrane promotes hepatocyte attachment and functional maintenance. <i>Biomaterials</i> , 2003 , 24, 4893-903	15.6	77
329	In vitro chondrogenesis of mesenchymal stem cells in recombinant silk-elastinlike hydrogels. <i>Pharmaceutical Research</i> , 2008 , 25, 692-9	4.5	76
328	Hyperbranched poly(amino ester)s with different terminal amine groups for DNA delivery. <i>Biomacromolecules</i> , 2006 , 7, 1879-83	6.9	76
327	Synthetic mast-cell granules as adjuvants to promote and polarize immunity in lymph nodes. <i>Nature Materials</i> , 2012 , 11, 250-7	27	75
326	Transport of chitosan-DNA nanoparticles in human intestinal M-cell model versus normal intestinal enterocytes. <i>European Journal of Pharmaceutical Sciences</i> , 2010 , 39, 103-9	5.1	75
325	Interaction of human mesenchymal stem cells with disc cells: changes in extracellular matrix biosynthesis. <i>Spine</i> , 2006 , 31, 2036-42	3.3	74
324	Engineered materials for in vivo delivery of genome-editing machinery. <i>Nature Reviews Materials</i> , 2019 , 4, 726-737	73.3	73
323	Water-soluble and nonionic polyphosphoester: synthesis, degradation, biocompatibility and enhancement of gene expression in mouse muscle. <i>Biomacromolecules</i> , 2004 , 5, 306-11	6.9	73
322	Block-selected molecular recognition and formation of polypseudorotaxanes between poly(propylene oxide)-poly(ethylene oxide)-poly(propylene oxide) triblock copolymers and alpha-cyclodextrin. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 69-72	16.4	72

321	Effects of topographical and mechanical property alterations induced by oxygen plasma modification on stem cell behavior. <i>ACS Nano</i> , 2012 , 6, 8591-8	16.7	71
320	Dynamic and static light scattering studies on self-aggregation behavior of biodegradable amphiphilic poly(ethylene oxide)-poly[(R)-3-hydroxybutyrate]-poly(ethylene oxide) triblock copolymers in aqueous solution. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5920-6	3.4	71
319	Repeated intrathecal administration of plasmid DNA complexed with polyethylene glycol-grafted polyethylenimine led to prolonged transgene expression in the spinal cord. <i>Gene Therapy</i> , 2003 , 10, 1179-88	4.88	71
318	Evaluation of polyphosphates and polyphosphonates as degradable biomaterials. <i>Journal of Biomedical Materials Research Part B</i> , 1991 , 25, 1151-67		71
317	Droplet microfluidics platform for highly sensitive and quantitative detection of malaria-causing <i>Plasmodium</i> parasites based on enzyme activity measurement. <i>ACS Nano</i> , 2012 , 6, 10676-83	16.7	70
316	Viscoelastic behaviour of human mesenchymal stem cells. <i>BMC Cell Biology</i> , 2008 , 9, 40		70
315	Fabrication of poly(phosphoester) nerve guides by immersion precipitation and the control of porosity. <i>Biomaterials</i> , 2001 , 22, 1147-56	15.6	70
314	Intranasal mRNA nanoparticle vaccination induces prophylactic and therapeutic anti-tumor immunity. <i>Scientific Reports</i> , 2014 , 4, 5128	4.9	68
313	A programmable microenvironment for cellular studies via microfluidics-generated double emulsions. <i>Biomaterials</i> , 2013 , 34, 4564-72	15.6	68
312	Thermally responsive polymeric micellar nanoparticles self-assembled from cholesteryl end-capped random poly(N-isopropylacrylamide-co-N,N-dimethylacrylamide): synthesis, temperature-sensitivity, and morphologies. <i>Journal of Colloid and Interface Science</i> , 2003 , 266, 295-303	9.3	68
311	Cationic nanoparticle as an inhibitor of cell-free DNA-induced inflammation. <i>Nature Communications</i> , 2018 , 9, 4291	17.4	67
310	The effect of substrate topography on direct reprogramming of fibroblasts to induced neurons. <i>Biomaterials</i> , 2014 , 35, 5327-5336	15.6	66
309	Biodegradable polyphosphoester micelles for gene delivery. <i>Journal of Pharmaceutical Sciences</i> , 2004 , 93, 2142-57	3.9	66
308	Directed Assembly of Multisegment Au/Pt/Au Nanowires. <i>Nano Letters</i> , 2004 , 4, 1163-1165	11.5	66
307	Multi-layered microcapsules for cell encapsulation. <i>Biomaterials</i> , 2002 , 23, 849-56	15.6	66
306	Scaffold-free, Human Mesenchymal Stem Cell-Based Tissue Engineered Blood Vessels. <i>Scientific Reports</i> , 2015 , 5, 15116	4.9	65
305	Co-culture of umbilical cord blood CD34+ cells with human mesenchymal stem cells. <i>Tissue Engineering</i> , 2006 , 12, 2161-70		65
304	Preparation and Characterization of Inclusion Complexes of Biodegradable Amphiphilic Poly(ethylene oxide)Poly[(R)-3-hydroxybutyrate]Poly(ethylene oxide) Triblock Copolymers with Cyclodextrins. <i>Macromolecules</i> , 2003 , 36, 1209-1214	5.5	64

303	Growth inhibition of the 9L glioma using polymers to release heparin and cortisone acetate. <i>Journal of Neuro-Oncology</i> , 1990 , 9, 131-8	4.8	64
302	3D Printing: 3D Printing of Highly Stretchable and Tough Hydrogels into Complex, Cellularized Structures. <i>Advanced Materials</i> , 2015 , 27, 4034	24	63
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300	Deformation of stem cell nuclei by nanotopographical cues. <i>Soft Matter</i> , 2010 , 6, 1675-1681	3.6	62
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