Kam Leong

List of Publications by Year in descending order

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478 papers	47,701 citations	1172 114 h-index	2823 197 g-index
492 all docs	492 docs citations	492 times ranked	53847 citing authors

#	Article	IF	Citations
1	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
2	DAMPs/PAMPs induce monocytic TLR activation and tolerance in COVID-19 patients; nucleic acid binding scavengers can counteract such TLR agonists. Biomaterials, 2022, 283, 121393.	5.7	34
3	A nanoparticulate dual scavenger for targeted therapy of inflammatory bowel disease. Science Advances, 2022, 8, eabj2372.	4.7	87
4	Biomaterialomics: Data science-driven pathways to develop fourth-generation biomaterials. Acta Biomaterialia, 2022, 143, 1-25.	4.1	42
5	Scalable biomimetic SARS-CoVâ€‘2 nanovaccines with robust protective immune responses. Signal Transduction and Targeted Therapy, 2022, 7, 96.	7.1	9
6	A programmable encapsulation system improves delivery of therapeutic bacteria in mice. Nature Biotechnology, 2022, 40, 1259-1269.	9.4	89
7	An Injectable Antibiotic Hydrogel that Scavenges Proinflammatory Factors for the Treatment of Severe Abdominal Trauma. Advanced Functional Materials, 2022, 32, .	7.8	32
8	Blood-brain barrierâ€“penetrating single CRISPR-Cas9 nanocapsules for effective and safe glioblastoma gene therapy. Science Advances, 2022, 8, eabm8011.	4.7	71
9	Design of therapeutic biomaterials to control inflammation. Nature Reviews Materials, 2022, 7, 557-574.	23.3	187
10	Scavenging Tumorâ€Derived Small Extracellular Vesicles by Functionalized 2D Materials to Inhibit Tumor Regrowth and Metastasis Following Radiotherapy. Advanced Functional Materials, 2022, 32, .	7.8	8
11	Protein-reactive nanofibrils decorated with cartilage-derived decellularized extracellular matrix for osteochondral defects. Biomaterials, 2021, 269, 120214.	5.7	49
12	Flash technology-based self-assembly in nanoformulation: Fabrication to biomedical applications. Materials Today, 2021, 42, 99-116.	8.3	35
13	Enhanced efficiency of nonviral direct neuronal reprogramming on topographical patterns. Biomaterials Science, 2021, 9, 5175-5191.	2.6	9
14	Doseâ€Dependent Carbonâ€Dotâ€Induced ROS Promote Uveal Melanoma Cell Tumorigenicity via Activation of mTOR Signaling and Glutamine Metabolism. Advanced Science, 2021, 8, 2002404.	5.6	27
15	Emulating Early Atherosclerosis in a Vascular Microphysiological System Using Branched Tissueâ€Engineered Blood Vessels. Advanced Biology, 2021, 5, e2000428.	1.4	14
16	A Cationic Metalâ€“Organic Framework to Scavenge Cell-Free DNA for Severe Sepsis Management. Nano Letters, 2021, 21, 2461-2469.	4.5	39
17	Inhibition of DNA replication initiation by silver nanoclusters. Nucleic Acids Research, 2021, 49, 5074-5083.	6.5	12
18	Promoting reactive oxygen species generation: a key strategy in nanosensitizer-mediated radiotherapy. Nanomedicine, 2021, 16, 759-778.	1.7	26

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19	The NIH Somatic Cell Genome Editing program. Nature, 2021, 592, 195-204.	13.7	84
20	A Versatile and Robust Platform for the Scalable Manufacture of Biomimetic Nanovaccines. Advanced Science, 2021, 8, 2002020.	5.6	43
21	Impaired cholesterol efflux in retinal pigment epithelium of individuals with juvenile macular degeneration. American Journal of Human Genetics, 2021, 108, 903-918.	2.6	10
22	Scaffold-mediated CRISPR-Cas9 delivery system for acute myeloid leukemia therapy. Science Advances, 2021, 7, .	4.7	56
23	Nanotechnology for pain management: Current and future therapeutic interventions. Nano Today, 2021, 39, 101223.	6.2	27
24	Janus metallic mesoporous silica nanoparticles: Unique structures for cancer theranostics. Current Opinion in Biomedical Engineering, 2021, 19, 100294.	1.8	8
25	Drug delivery carriers with therapeutic functions. Advanced Drug Delivery Reviews, 2021, 176, 113884.	6.6	32
26	Investigation of Neurodevelopmental Deficits of 22 q11.2 Deletion Syndrome with a Patient-iPSC-Derived Bloodâ€“Brain Barrier Model. Cells, 2021, 10, 2576.	1.8	9
27	Targeting multiple mediators of sepsis using multifunctional tannic acid-Zn2+-gentamicin nanoparticles. Matter, 2021, 4, 3677-3695.	5.0	19
28	Systemic antiviral immunization by virus-mimicking nanoparticles-decorated erythrocytes. Nano Today, 2021, 40, 101280.	6.2	36
29	Modeling SARS-CoV-2 infection in individuals with opioid use disorder with brain organoids. Journal of Tissue Engineering, 2021, 12, 204173142098529.	2.3	6
30	Biomaterial-assisted scalable cell production for cell therapy. Biomaterials, 2020, 230, 119627.	5.7	33
31	A polyphenol-metal nanoparticle platform for tunable release of liraglutide to improve blood glycemic control and reduce cardiovascular complications in a mouse model of type II diabetes. Journal of Controlled Release, 2020, 318, 86-97.	4.8	33
32	An implantable blood clotâ€“based immune niche for enhanced cancer vaccination. Science Advances, 2020, 6, .	4.7	66
33	A Versatile Nonviral Delivery System for Multiplex Geneâ€Editing in the Liver. Advanced Materials, 2020, 32, e2003537.	11.1	45
34	A materials-science perspective on tackling COVID-19. Nature Reviews Materials, 2020, 5, 847-860.	23.3	228
35	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
36	Microfluidic Isolation and Enrichment of Nanoparticles. ACS Nano, 2020, 14, 16220-16240.	7.3	59

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37	Nanoparticleâ€Enabled Dual Modulation of Phagocytic Signals to Improve Macrophageâ€Mediated Cancer Immunotherapy. Small, 2020, 16, e2004240.	5.2	46
38	Highâ€Throughput Tumorâ€onâ€aâ€Chip Platform to Study Tumorâ€“Stroma Interactions and Drug Pharmacokinetics. Advanced Healthcare Materials, 2020, 9, e2000880.	3.9	31
39	Prevention of excessive scar formation using nanofibrous meshes made of biodegradable elastomer poly(3-hydroxybutyrate-co-3-hydroxyvalerate). Journal of Tissue Engineering, 2020, 11, 204173142094933.	2.3	21
40	Light: A Magical Tool for Controlled Drug Delivery. Advanced Functional Materials, 2020, 30, 2005029.	7.8	134
41	Biomimetic Diselenideâ€Bridged Mesoporous Organosilica Nanoparticles as an Xâ€rayâ€Responsive Biodegradable Carrier for Chemoâ€Immunotherapy. Advanced Materials, 2020, 32, e2004385.	11.1	122
42	Biofunctional Janus particles promote phagocytosis of tumor cells by macrophages. Chemical Science, 2020, 11, 5323-5327.	3.7	12
43	Endosomal signaling of delta opioid receptors is an endogenous mechanism and therapeutic target for relief from inflammatory pain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15281-15292.	3.3	72
44	Treatment of severe sepsis with nanoparticulate cell-free DNA scavengers. Science Advances, 2020, 6, eaay7148.	4.7	94
45	Identification of Specific Joint-Inflammatogenic Cell-Free DNA Molecules From Synovial Fluids of Patients With Rheumatoid Arthritis. Frontiers in Immunology, 2020, 11, 662.	2.2	24
46	Revascularization and limb salvage following critical limb ischemia by nanoceria-induced Ref-1/APE1-dependent angiogenesis. Biomaterials, 2020, 242, 119919.	5.7	52
47	Engineering Liver Microtissues for Disease Modeling and Regenerative Medicine. Advanced Functional Materials, 2020, 30, 1909553.	7.8	28
48	CRISPR/Cas9â€mediated mutagenesis to validate the synergy between PARP1 inhibition and chemotherapy in BRCA1â€mutated breast cancer cells. Bioengineering and Translational Medicine, 2020, 5, e10152.	3.9	31
49	Flash Fabrication of Orally Targeted Nanocomplexes for Improved Transport of Salmon Calcitonin across the Intestine. Molecular Pharmaceutics, 2020, 17, 757-768.	2.3	17
50	Dual-Color Plasmonic Nanosensor for Radiation Dosimetry. ACS Applied Materials & Interfaces, 2020, 12, 22499-22506.	4.0	17
51	Cellâ€“Substrate Interactions. , 2019, , 437-468.		10
52	Spatial metagenomic characterization of microbial biogeography in the gut. Nature Biotechnology, 2019, 37, 877-883.	9.4	103
53	Surface Coating Approach to Overcome Mucosal Entrapment of DNA Nanoparticles for Oral Gene Delivery of Glucagon-like Peptide 1. ACS Applied Materials & Interfaces, 2019, 11, 29593-29603.	4.0	28
54	Engineered materials for in vivo delivery of genome-editing machinery. Nature Reviews Materials, 2019, 4, 726-737.	23.3	139

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55	A multifunctional mesoporous silicaâ€“gold nanocluster hybrid platform for selective breast cancer cell detection using a catalytic amplification-based colorimetric assay. Nanoscale, 2019, 11, 2631-2636.	2.8	68
56	Engineering Cell Membraneâ€Based Nanotherapeutics to Target Inflammation. Advanced Science, 2019, 6, 1900605.	5.6	143
57	Identification of an Integrin Î±6â€Targeted Peptide for Nasopharyngeal Carcinomaâ€Specific Nanotherapeutics. Advanced Therapeutics, 2019, 2, 1900018.	1.6	19
58	Sustained release of exendin-4 from tannic acid/Fe (III) nanoparticles prolongs blood glycemic control in a mouse model of type II diabetes. Journal of Controlled Release, 2019, 301, 119-128.	4.8	65
59	Scaffold-mediated non-viral delivery platform for CRISPR/Cas9-based genome editing. Acta Biomaterialia, 2019, 90, 60-70.	4.1	34
60	Tuned Cationic Dendronized Polymer: Molecular Scavenger for Rheumatoid Arthritis Treatment. Angewandte Chemie - International Edition, 2019, 58, 4254-4258.	7.2	54
61	Tuned Cationic Dendronized Polymer: Molecular Scavenger for Rheumatoid Arthritis Treatment. Angewandte Chemie, 2019, 131, 4298-4302.	1.6	3
62	Engineered Mesenchymal Stem Cell/Nanomedicine Spheroid as an Active Drug Delivery Platform for Combinational Glioblastoma Therapy. Nano Letters, 2019, 19, 1701-1705.	4.5	71
63	Microfluidic platforms with nanoscale features. , 2019, , 65-90.		3
64	Advanced drug delivery systems and artificial skin grafts for skin wound healing. Advanced Drug Delivery Reviews, 2019, 146, 209-239.	6.6	369
65	Scalable Production of Therapeutic Protein Nanoparticles Using Flash Nanoprecipitation. Advanced Healthcare Materials, 2019, 8, e1801010.	3.9	27
66	Scalable Manufacturing of Enteric Encapsulation Systems for Site-Specific Oral Insulin Delivery. Biomacromolecules, 2019, 20, 528-538.	2.6	26
67	Determination of Cellular Uptake and Endocytic Pathways. Bio-protocol, 2019, 9, e3169.	0.2	0
68	Potency of a Scalable Nanoparticulate Subunit Vaccine. Nano Letters, 2018, 18, 3007-3016.	4.5	57
69	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
70	Scalable production of coreâ€“shell nanoparticles by flash nanocomplexation to enhance mucosal transport for oral delivery of insulin. Nanoscale, 2018, 10, 3307-3319.	2.8	62
71	Graphene oxide cellular patches for mesenchymal stem cell-based cancer therapy. Carbon, 2018, 129, 863-868.	5.4	21
72	Atom Transfer Radical Polymerization of Multishelled Cationic Corona for the Systemic Delivery of siRNA. Nano Letters, 2018, 18, 314-325.	4.5	33

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73	Hydrogen-Bonded Tannic Acid-Based Anticancer Nanoparticle for Enhancement of Oral Chemotherapy. ACS Applied Materials & Interfaces, 2018, 10, 42186-42197.	4.0	85
74	Size-controlled lipid nanoparticle production using turbulent mixing to enhance oral DNA delivery. Acta Biomaterialia, 2018, 81, 195-207.	4.1	42
75	Cationic nanoparticle as an inhibitor of cell-free DNA-induced inflammation. Nature Communications, 2018, 9, 4291.	5.8	129
76	CRISPR/dCas9-mediated cell differentiation. Current Opinion in Biomedical Engineering, 2018, 7, 9-15.	1.8	7
77	HPV Oncogene Manipulation Using Nonvirally Delivered CRISPR/Cas9 or Natronobacterium gregoryi Argonaute. Advanced Science, 2018, 5, 1700540.	5.6	78
78	Bioinspired Diselenideâ€Bridged Mesoporous Silica Nanoparticles for Dualâ€Responsive Protein Delivery. Advanced Materials, 2018, 30, e1801198.	11.1	234
79	Real-time observation of leukocyteâ€“endothelium interactions in tissue-engineered blood vessel. Lab on A Chip, 2018, 18, 2047-2054.	3.1	28
80	Folding artificial mucosa with cell-laden hydrogels guided by mechanics models. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7503-7508.	3.3	60
81	Oral Nonviral Gene Delivery for Chronic Protein Replacement Therapy. Advanced Science, 2018, 5, 1701079.	5.6	28
82	Uniform Coreâ€“Shell Nanoparticles with Thiolated Hyaluronic Acid Coating to Enhance Oral Delivery of Insulin. Advanced Healthcare Materials, 2018, 7, e1800285.	3.9	90
83	Anti-infective biomaterials with surface-decorated tachyplesin I. Biomaterials, 2018, 178, 351-362.	5.7	42
84	Walking the line: The fate of nanomaterials at biological barriers. Biomaterials, 2018, 174, 41-53.	5.7	125
85	Human mesenchymal stem cell basal membrane bending on gratings is dependent on both grating width and curvature. Scientific Reports, 2018, 8, 6444.	1.6	4
86	CRISPR Technology for Breast Cancer: Diagnostics, Modeling, and Therapy. Advanced Biology, 2018, 2, 1800132.	3.0	11
87	Morphology, Migration, and Transcriptome Analysis of Schwann Cell Culture on Butterfly Wings with Different Surface Architectures. ACS Nano, 2018, 12, 9660-9668.	7.3	32
88	Advanced Cell and Tissue Biomanufacturing. ACS Biomaterials Science and Engineering, 2018, 4, 2292-2307.	2.6	14
89	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
90	Core Transcription Factors, MicroRNAs, and Small Molecules Drive Transdifferentiation of Human Fibroblasts Towards The Cardiac Cell Lineage. Scientific Reports, 2017, 7, 40285.	1.6	36

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91	Nucleic acid scavenging microfiber mesh inhibits trauma-induced inflammation and thrombosis. Biomaterials, 2017, 120, 94-102.	5.7	52
92	A versatile platform for surface modification of microfluidic droplets. Lab on A Chip, 2017, 17, 635-639.	3.1	14
93	High-throughput screening of microchip-synthesized genes in programmable double-emulsion droplets. Nanoscale, 2017, 9, 3485-3495.	2.8	25
94	Progress in Nanotheranostics Based on Mesoporous Silica Nanomaterial Platforms. ACS Applied Materials & Interfaces, 2017, 9, 10309-10337.	4.0	111
95	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
96	Biophysical Regulation of Cell Behaviorâ€"Cross Talk between Substrate Stiffness and Nanotopography. Engineering, 2017, 3, 36-54.	3.2	193
97	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
98	Extra- and intra-cellular fate of nanocarriers under dynamic interactions with biology. Nano Today, 2017, 14, 84-99.	6.2	42
99	Scalable fabrication of size-controlled chitosan nanoparticles for oral delivery of insulin. Biomaterials, 2017, 130, 28-41.	5.7	200
100	Application of induced pluripotent stem cells to model smooth muscle cell function in vascular diseases. Current Opinion in Biomedical Engineering, 2017, 1, 38-44.	1.8	12
101	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
102	Cleavable Multifunctional Targeting Mixed Micelles with Sequential pH-Triggered TAT Peptide Activation for Improved Antihepatocellular Carcinoma Efficacy. Molecular Pharmaceutics, 2017, 14, 3644-3659.	2.3	31
103	A highly selective dual-therapeutic nanosystem for simultaneous anticancer and antiangiogenesis therapy. Journal of Materials Chemistry B, 2017, 5, 8228-8237.	2.9	12
104	Scarless Wound Closure by a Mussel-Inspired Poly(amidoamine) Tissue Adhesive with Tunable Degradability. ACS Omega, 2017, 2, 6053-6062.	1.6	19
105	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
106	Bioreactor model of neuromuscular junction with electrical stimulation for pharmacological potency testing. Integrative Biology (United Kingdom), 2017, 9, 956-967.	0.6	14
107	Efficient Oneâ€Step Production of Microencapsulated Hepatocyte Spheroids with Enhanced Functions. Small, 2016, 12, 2720-2730.	5.2	89
108	Coupling spatial segregation with synthetic circuits to control bacterial survival. Molecular Systems Biology, 2016, 12, 859.	3.2	33

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109	Nanografted Substrata and Triculture of Human Pericytes, Fibroblasts, and Endothelial Cells for Studying the Effects on Angiogenesis. Tissue Engineering - Part A, 2016, 22, 698-706.	1.6	19
110	Signal-on Protein Detection via Dye Translocation between Aptamer and Quantum Dot. ACS Applied Materials & Interfaces, 2016, 8, 12048-12055.	4.0	28
111	Surface charge critically affects tumor penetration and therapeutic efficacy of cancer nanomedicines. Nano Today, 2016, 11, 133-144.	6.2	208
112	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
113	Polycationic Nanofibers for Nucleic Acid Scavenging. Biomacromolecules, 2016, 17, 3706-3713.	2.6	17
114	Microfluidic hydrodynamic focusing for synthesis of nanomaterials. Nano Today, 2016, 11, 778-792.	6.2	148
115	Cell-laden microfluidic microgels for tissue regeneration. Lab on A Chip, 2016, 16, 4482-4506.	3.1	133
116	Expanding Nanopatterned Substrates Using Stitch Technique for Nanotopographical Modulation of Cell Behavior. Journal of Visualized Experiments, 2016, , .	0.2	3
117	Nanoparticle-mediated inhibition of survivin to overcome drug resistance in cancer therapy. Journal of Controlled Release, 2016, 240, 454-464.	4.8	46
118	Inducing enhanced immunogenic cell death with nanocarrier-based drug delivery systems for pancreatic cancer therapy. Biomaterials, 2016, 102, 187-197.	5.7	208
119	Biomaterials control of pluripotent stem cell fate for regenerative therapy. Progress in Materials Science, 2016, 82, 234-293.	16.0	40
120	Poly(Ethylene Glycol) Hydrogel Scaffolds Containing Cell-Adhesive and Protease-Sensitive Peptides Support Microvessel Formation by Endothelial Progenitor Cells. Cellular and Molecular Bioengineering, 2016, 9, 38-54.	1.0	67
121	Can microfluidics address biomanufacturing challenges in drug/gene/cell therapies?. International Journal of Energy Production and Management, 2016, 3, 87-98.	1.9	30
122	Deterministic transfection drives efficient nonviral reprogramming and uncovers reprogramming barriers. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 399-409.	1.7	37
123	Transdifferentiation of human endothelial progenitors into smooth muscle cells. Biomaterials, 2016, 85, 180-194.	5.7	39
124	Smart Theranostic Nanosystems. , 2016, , 523-549.		1
125	Biostable electrospun microfibrous scaffolds mitigate hypertrophic scar contraction in an immune-competent murine model. Acta Biomaterialia, 2016, 32, 100-109.	4.1	33
126	Mitigation of hypertrophic scar contraction in an immune-competent mouse model via a biostable electrospun scaffold. Journal of the American College of Surgeons, 2015, 221, e119-e120.	0.2	0

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127	Intranasal mRNA nanoparticle vaccination induces prophylactic and therapeutic anti-tumor immunity. Journal of Controlled Release, 2015, 213, e66-e67.	4.8	2
128	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
129	Immobilization of nucleic acid binding polymers as anti-inflammatory agent in autoimmunity. Journal of Controlled Release, 2015, 213, e136.	4.8	7
130	Scaffold-free, Human Mesenchymal Stem Cell-Based Tissue Engineered Blood Vessels. Scientific Reports, 2015, 5, 15116.	1.6	84
131	59. Multiplex Gene Activation by CRISPR/Cas9-Based Transcription Factors for the Direct Conversion of Fibroblasts to a Neuronal Phenotype. Molecular Therapy, 2015, 23, S26.	3.7	0
132	272. Nucleic Acid Scavenging Nanofibers as Anti-Inflammatory Meshes. Molecular Therapy, 2015, 23, S108-S109.	3.7	0
133	Dynamic control and quantification of bacterial population dynamics in droplets. Biomaterials, 2015, 61, 239-245.	5.7	25
134	Plant-based oral tolerance to hemophilia therapy employs a complex immune regulatory response including LAP+CD4+ T cells. Blood, 2015, 125, 2418-2427.	0.6	57
135	MicroRNA delivery for regenerative medicine. Advanced Drug Delivery Reviews, 2015, 88, 108-122.	6.6	125
136	3D Printing of Highly Stretchable and Tough Hydrogels into Complex, Cellularized Structures. Advanced Materials, 2015, 27, 4035-4040.	11.1	720
137	Smart multifunctional drug delivery towards anticancer therapy harmonized in mesoporous nanoparticles. Nanoscale, 2015, 7, 14191-14216.	2.8	153
138	NanoCluster Beacons as reporter probes in rolling circle enhanced enzyme activity detection. Nanoscale, 2015, 7, 8332-8337.	2.8	32
139	Mitigation of hypertrophic scar contraction via an elastomeric biodegradable scaffold. Biomaterials, 2015, 43, 61-70.	5.7	53
140	Aptamer Nanomedicine for Cancer Therapeutics: Barriers and Potential for Translation. ACS Nano, 2015, 9, 2235-2254.	7.3	228
141	Engineering mesenchymal stem cells for regenerative medicine and drug delivery. Methods, 2015, 84, 3-16.	1.9	182
142	Aptamer Sequence Deconvolution through Microarray Technology. Biophysical Journal, 2015, 108, 328a.	0.2	0
143	Knockdown of the Cell Cycle Inhibitor p21 Enhances Cartilage Formation by Induced Pluripotent Stem Cells. Tissue Engineering - Part A, 2015, 21, 1261-1274.	1.6	14
144	Integration of drug, protein, and gene delivery systems with regenerative medicine. Drug Delivery and Translational Research, 2015, 5, 168-186.	3.0	41

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145	Editorial. Biomaterials, 2015, 36, 5.	5.7	0
146	Nanotopography Alters Nuclear Protein Expression, Proliferation and Differentiation of Human Mesenchymal Stem/Stromal Cells. PLoS ONE, 2014, 9, e114698.	1.1	28
147	Nanograting structure promotes lamellipodia-based cell collective migration and wound healing. , 2014, 2014, 2916-9.		5
148	A CRISPR/Cas9-Based System for Reprogramming Cell Lineage Specification. Stem Cell Reports, 2014, 3, 940-947.	2.3	176
149	A novel immune competent murine hypertrophic scar contracture model: A tool to elucidate disease mechanism and develop new therapies. Wound Repair and Regeneration, 2014, 22, 755-764.	1.5	32
150	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
151	The effect of substrate topography on direct reprogramming of fibroblasts to induced neurons. Biomaterials, 2014, 35, 5327-5336.	5.7	79
152	Highly Aligned Nanofibrous Scaffold Derived from Decellularized Human Fibroblasts. Advanced Functional Materials, 2014, 24, 3027-3035.	7.8	61
153	Use of Cartilage Derived From Murine Induced Pluripotent Stem Cells for Osteoarthritis Drug Screening. Arthritis and Rheumatology, 2014, 66, 3062-3072.	2.9	40
154	Gene Delivery: Nonendocytic Delivery of Lipoplex Nanoparticles into Living Cells Using Nanochannel Electroporation (Adv. Healthcare Mater. 5/2014). Advanced Healthcare Materials, 2014, 3, 622-622.	3.9	1
155	Magnetoactive sponges for dynamic control of microfluidic flow patterns in microphysiological systems. Lab on A Chip, 2014, 14, 514-521.	3.1	27
156	Three-Dimensional Hydrodynamic Focusing Method for Polyplex Synthesis. ACS Nano, 2014, 8, 332-339.	7.3	48
157	Harnessing Localized Ridges for Highâ€Aspectâ€Ratio Hierarchical Patterns with Dynamic Tunability and Multifunctionality. Advanced Materials, 2014, 26, 1763-1770.	11.1	171
158	Shape-Controlled Synthesis of Hybrid Nanomaterials via Three-Dimensional Hydrodynamic Focusing. ACS Nano, 2014, 8, 10026-10034.	7.3	46
159	Whole Blood Cells Loaded with Messenger RNA as an Antiâ€Tumor Vaccine. Advanced Healthcare Materials, 2014, 3, 837-842.	3.9	34
160	Messenger RNA (mRNA) nanoparticle tumour vaccination. Nanoscale, 2014, 6, 7715-7729.	2.8	63
161	Nonendocytic Delivery of Lipoplex Nanoparticles into Living Cells Using Nanochannel Electroporation. Advanced Healthcare Materials, 2014, 3, 682-689.	3.9	35
162	Synthesis of Fluorosurfactants for Emulsion-Based Biological Applications. ACS Nano, 2014, 8, 3913-3920.	7.3	57

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163	Recent Advances in Nanoparticle-Mediated siRNA Delivery. Annual Review of Biomedical Engineering, 2014, 16, 347-370.	5.7	131
164	Vector modifications to eliminate transposase expression following piggyBac-mediated transgenesis. Scientific Reports, 2014, 4, 7403.	1.6	6
165	Intranasal mRNA nanoparticle vaccination induces prophylactic and therapeutic anti-tumor immunity. Scientific Reports, 2014, 4, 5128.	1.6	94
166	RNA-guided gene activation by CRISPR-Cas9â€"based transcription factors. Nature Methods, 2013, 10, 973-976.	9.0	1,105
167	Chemical modification of collagen improves glycosaminoglycan retention of their co-precipitates. Acta Biomaterialia, 2013, 9, 4661-4672.	4.1	18
168	Multifunctional Nanorods Serving as Nanobridges To Modulate T Cell-Mediated Immunity. ACS Nano, 2013, 7, 9771-9779.	7.3	21
169	A programmable microenvironment for cellular studies via microfluidics-generated double emulsions. Biomaterials, 2013, 34, 4564-4572.	5.7	86
170	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
171	Comparison of Mixed and Lamellar Coculture Spatial Arrangements for Tissue Engineering Capillary NetworksIn Vitro. Tissue Engineering - Part A, 2013, 19, 697-706.	1.6	9
172	Single cell enzyme diagnosis on the chip. , 2013, , .		1
173	Materials innovation for co-delivery of diverse therapeutic cargos. RSC Advances, 2013, 3, 24794.	1.7	46
174	Design considerations for an integrated microphysiological muscle tissue for drug and tissue toxicity testing. Stem Cell Research and Therapy, 2013, 4, S10.	2.4	25
175	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
176	Mechanistic Considerations of the Therapeutic Effects of Mn Porphyrins, Commonly Regarded as SOD Mimics, in Anticancer Therapy: Lessons from Brain and Lymphoma Studies. Free Radical Biology and Medicine, 2013, 65, S120-S121.	1.3	7
177	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
178	Advanced materials and processing for drug delivery: The past and the future. Advanced Drug Delivery Reviews, 2013, 65, 104-120.	6.6	839
179	Mechanism of oral tolerance induction to therapeutic proteins. Advanced Drug Delivery Reviews, 2013, 65, 759-773.	6.6	74
180	Nanoparticle- and biomaterials-mediated oral delivery for drug, gene, and immunotherapy. Advanced Drug Delivery Reviews, 2013, 65, 757-758.	6.6	32

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181	Microfluidic Cell Culture Platforms with Embedded Nanoscale Features. , 2013, , 3-26.		4
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