Kam Leong

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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	15.6	5
463	A nanoparticulate dual scavenger for targeted therapy of inflammatory bowel disease.. *Science Advances*, **2022**, 8, eabj2372	14.3	10
462	Biomaterialomics: Data Science-driven Pathways to develop fourth-Generation Biomaterials.. *Acta Biomaterialia*, **2022**,	10.8	4
461	Scalable biomimetic SARS-CoV-2 nanovaccines with robust protective immune responses.. *Signal Transduction and Targeted Therapy*, **2022**, 7, 96	21	3
460	A programmable encapsulation system improves delivery of therapeutic bacteria in mice.. *Nature Biotechnology*, **2022**,	44.5	8
459	Blood-brain barrier-penetrating single CRISPR-Cas9 nanocapsules for effective and safe glioblastoma gene therapy.. *Science Advances*, **2022**, 8, eabm8011	14.3	5
458	Design of therapeutic biomaterials to control inflammation.. *Nature Reviews Materials*, **2022**, 1-18	73.3	16
457	A DAMP-scavenging, IL-10-releasing hydrogel promotes neural regeneration and motor function recovery after spinal cord injury. *Biomaterials*, **2021**, 280, 121279	15.6	9
456	A Cationic Metal-Organic Framework to Scavenge Cell-Free DNA for Severe Sepsis Management. *Nano Letters*, **2021**, 21, 2461-2469	11.5	12
455	Inhibition of DNA replication initiation by silver nanoclusters. *Nucleic Acids Research*, **2021**, 49, 5074-5083	20.1	1
454	Promoting reactive oxygen species generation: a key strategy in nanosensitizer-mediated radiotherapy. *Nanomedicine*, **2021**, 16, 759-778	5.6	7
453	The NIH Somatic Cell Genome Editing program. *Nature*, **2021**, 592, 195-204	50.4	21
452	A Versatile and Robust Platform for the Scalable Manufacture of Biomimetic Nanovaccines. *Advanced Science*, **2021**, 8, 2002020	13.6	16
451	Impaired cholesterol efflux in retinal pigment epithelium of individuals with juvenile macular degeneration. *American Journal of Human Genetics*, **2021**, 108, 903-918	11	3
450	Scaffold-mediated CRISPR-Cas9 delivery system for acute myeloid leukemia therapy. *Science Advances*, **2021**, 7,	14.3	15
449	Protein-reactive nanofibrils decorated with cartilage-derived decellularized extracellular matrix for osteochondral defects. *Biomaterials*, **2021**, 269, 120214	15.6	20
448	Flash Technology-Based Self-Assembly in Nanoformulation: From Fabrication to Biomedical Applications. *Materials Today*, **2021**, 42, 99-116	21.8	8

447	Enhanced efficiency of nonviral direct neuronal reprogramming on topographical patterns. *Biomaterials Science*, **2021**, 9, 5175-5191	7.4	4
446	Dose-Dependent Carbon-Dot-Induced ROS Promote Uveal Melanoma Cell Tumorigenicity via Activation of mTOR Signaling and Glutamine Metabolism. *Advanced Science*, **2021**, 8, 2002404	13.6	7
445	Emulating Early Atherosclerosis in a Vascular Microphysiological System Using Branched Tissue-Engineered Blood Vessels. *Advanced Biology*, **2021**, 5, e2000428		3
444	Nanotechnology for Pain Management: Current and Future Therapeutic Interventions.. *Nano Today*, **2021**, 39, 101223-101223	17.9	3
443	Janus metallic mesoporous silica nanoparticles: Unique structures for cancer theranostics. *Current Opinion in Biomedical Engineering*, **2021**, 19, 100294	4.4	5
442	Drug delivery carriers with therapeutic functions. *Advanced Drug Delivery Reviews*, **2021**, 176, 113884	18.5	5
441	Systemic antiviral immunization by virus-mimicking nanoparticles-decorated erythrocytes. *Nano Today*, **2021**, 40, 101280	17.9	9
440	Modeling SARS-CoV-2 infection in individuals with opioid use disorder with brain organoids. *Journal of Tissue Engineering*, **2021**, 12, 2041731420985299	7.5	2
439	Biomimetic Diselenide-Bridged Mesoporous Organosilica Nanoparticles as an X-ray-Responsive Biodegradable Carrier for Chemo-Immunotherapy. *Advanced Materials*, **2020**, 32, e2004385	24	61
438	Biofunctional Janus particles promote phagocytosis of tumor cells by macrophages. *Chemical Science*, **2020**, 11, 5323-5327	9.4	9
437	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	11.5	29
436	Treatment of severe sepsis with nanoparticulate cell-free DNA scavengers. *Science Advances*, **2020**, 6, eaay7148	14.3	36
435	Identification of Specific Joint-Inflammatogenic Cell-Free DNA Molecules From Synovial Fluids of Patients With Rheumatoid Arthritis. *Frontiers in Immunology*, **2020**, 11, 662	8.4	14
434	Revascularization and limb salvage following critical limb ischemia by nanoceria-induced Ref-1/APE1-dependent angiogenesis. *Biomaterials*, **2020**, 242, 119919	15.6	29
433	Engineering liver microtissues for disease modeling and regenerative medicine. *Advanced Functional Materials*, **2020**, 30, 1909553	15.6	14
432	CRISPR/Cas9-mediated mutagenesis to validate the synergy between PARP1 inhibition and chemotherapy in -mutated breast cancer cells. *Bioengineering and Translational Medicine*, **2020**, 5, e10152	14.8	16
431	Flash Fabrication of Orally Targeted Nanocomplexes for Improved Transport of Salmon Calcitonin across the Intestine. *Molecular Pharmaceutics*, **2020**, 17, 757-768	5.6	11
430	Dual-Color Plasmonic Nanosensor for Radiation Dosimetry. *ACS Applied Materials & Interfaces*, **2020**, 12, 22499-22506	9.5	6

429	Biomaterial-assisted scalable cell production for cell therapy. *Biomaterials*, **2020**, 230, 119627	15.6	12
428	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	11.7	18
427	An implantable blood clot-based immune niche for enhanced cancer vaccination. *Science Advances*, **2020**, 6,	14.3	33
426	A Versatile Nonviral Delivery System for Multiplex Gene-Editing in the Liver. *Advanced Materials*, **2020**, 32, e2003537	24	23
425	A materials-science perspective on tackling COVID-19. *Nature Reviews Materials*, **2020**, 1-14	73.3	123
424	Codelivery of CRISPR-Cas9 and chlorin e6 for spatially controlled tumor-specific gene editing with synergistic drug effects. *Science Advances*, **2020**, 6, eabb4005	14.3	45
423	Microfluidic Isolation and Enrichment of Nanoparticles. *ACS Nano*, **2020**,	16.7	15
422	Nanoparticle-Enabled Dual Modulation of Phagocytic Signals to Improve Macrophage-Mediated Cancer Immunotherapy. *Small*, **2020**, 16, e2004240	11	15
421	High-Throughput Tumor-on-a-Chip Platform to Study Tumor-Stroma Interactions and Drug Pharmacokinetics. *Advanced Healthcare Materials*, **2020**, 9, e2000880	10.1	9
420	Prevention of excessive scar formation using nanofibrous meshes made of biodegradable elastomer poly(3-hydroxybutyrate--3-hydroxyvalerate). *Journal of Tissue Engineering*, **2020**, 11, 2041731420949332	7.5	12
419	Light: A Magical Tool for Controlled Drug Delivery. *Advanced Functional Materials*, **2020**, 30, 2005029	15.6	57
418	Engineered materials for in vivo delivery of genome-editing machinery. *Nature Reviews Materials*, **2019**, 4, 726-737	73.3	73
417	A multifunctional mesoporous silica-gold nanocluster hybrid platform for selective breast cancer cell detection using a catalytic amplification-based colorimetric assay. *Nanoscale*, **2019**, 11, 2631-2636	7.7	47
416	Engineering Cell Membrane-Based Nanotherapeutics to Target Inflammation. *Advanced Science*, **2019**, 6, 1900605	13.6	88
415	Identification of an Integrin β6-Targeted Peptide for Nasopharyngeal Carcinoma-Specific Nanotherapeutics. *Advanced Therapeutics*, **2019**, 2, 1900018	4.9	12
414	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	11.7	37
413	Scaffold-mediated non-viral delivery platform for CRISPR/Cas9-based genome editing. *Acta Biomaterialia*, **2019**, 90, 60-70	10.8	24
412	Tuned Cationic Dendronized Polymer: Molecular Scavenger for Rheumatoid Arthritis Treatment. *Angewandte Chemie - International Edition*, **2019**, 58, 4254-4258	16.4	33

411	Tuned Cationic Dendronized Polymer: Molecular Scavenger for Rheumatoid Arthritis Treatment. *Angewandte Chemie*, **2019**, 131, 4298-4302	3.6	1
410	Cell–Substrate Interactions **2019**, 437-468		3
409	Spatial metagenomic characterization of microbial biogeography in the gut. *Nature Biotechnology*, **2019**, 37, 877-883	44.5	50
408	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	9.5	14
407	Determination of Cellular Uptake and Endocytic Pathways. *Bio-protocol*, **2019**, 9, e3169	0.9	
406	Engineered Mesenchymal Stem Cell/Nanomedicine Spheroid as an Active Drug Delivery Platform for Combinational Glioblastoma Therapy. *Nano Letters*, **2019**, 19, 1701-1705	11.5	40
405	Microfluidic platforms with nanoscale features **2019**, 65-90		3
404	Advanced drug delivery systems and artificial skin grafts for skin wound healing. *Advanced Drug Delivery Reviews*, **2019**, 146, 209-239	18.5	170
403	Scalable Production of Therapeutic Protein Nanoparticles Using Flash Nanoprecipitation. *Advanced Healthcare Materials*, **2019**, 8, e1801010	10.1	21
402	Scalable Manufacturing of Enteric Encapsulation Systems for Site-Specific Oral Insulin Delivery. *Biomacromolecules*, **2019**, 20, 528-538	6.9	17
401	Potency of a Scalable Nanoparticulate Subunit Vaccine. *Nano Letters*, **2018**, 18, 3007-3016	11.5	39
400	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	11.5	153
399	Scalable production of core-shell nanoparticles by flash nanocomplexation to enhance mucosal transport for oral delivery of insulin. *Nanoscale*, **2018**, 10, 3307-3319	7.7	45
398	Oral Nonviral Gene Delivery for Chronic Protein Replacement Therapy. *Advanced Science*, **2018**, 5, 1701079	13.6	17
397	Uniform Core-Shell Nanoparticles with Thiolated Hyaluronic Acid Coating to Enhance Oral Delivery of Insulin. *Advanced Healthcare Materials*, **2018**, 7, e1800285	10.1	62
396	Anti-infective biomaterials with surface-decorated tachyplesin I. *Biomaterials*, **2018**, 178, 351-362	15.6	29
395	Walking the line: The fate of nanomaterials at biological barriers. *Biomaterials*, **2018**, 174, 41-53	15.6	93
394	Human mesenchymal stem cell basal membrane bending on gratings is dependent on both grating width and curvature. *Scientific Reports*, **2018**, 8, 6444	4.9	3

393	CRISPR Technology for Breast Cancer: Diagnostics, Modeling, and Therapy. *Advanced Biology*, **2018**, 2, 1800132	3.5	4
392	Morphology, Migration, and Transcriptome Analysis of Schwann Cell Culture on Butterfly Wings with Different Surface Architectures. *ACS Nano*, **2018**, 12, 9660-9668	16.7	22
391	Advanced Cell and Tissue Biomanufacturing. *ACS Biomaterials Science and Engineering*, **2018**, 4, 2292-2307	7.5	13
390	Sustained delivery of siRNA/mesoporous silica nanoparticle complexes from nanofiber scaffolds for long-term gene silencing. *Acta Biomaterialia*, **2018**, 76, 164-177	10.8	60
389	Graphene oxide cellular patches for mesenchymal stem cell-based cancer therapy. *Carbon*, **2018**, 129, 863-868	10.4	17
388	Atom Transfer Radical Polymerization of Multishelled Cationic Corona for the Systemic Delivery of siRNA. *Nano Letters*, **2018**, 18, 314-325	11.5	25
387	Hydrogen-Bonded Tannic Acid-Based Anticancer Nanoparticle for Enhancement of Oral Chemotherapy. *ACS Applied Materials & Interfaces*, **2018**, 10, 42186-42197	9.5	59
386	Size-controlled lipid nanoparticle production using turbulent mixing to enhance oral DNA delivery. *Acta Biomaterialia*, **2018**, 81, 195-207	10.8	29
385	Cationic nanoparticle as an inhibitor of cell-free DNA-induced inflammation. *Nature Communications*, **2018**, 9, 4291	17.4	67
384	CRISPR/dCas9-mediated cell differentiation. *Current Opinion in Biomedical Engineering*, **2018**, 7, 9-15	4.4	3
383	HPV Oncogene Manipulation Using Nonvirally Delivered CRISPR/Cas9 or Argonaute. *Advanced Science*, **2018**, 5, 1700540	13.6	55
382	Bioinspired Diselenide-Bridged Mesoporous Silica Nanoparticles for Dual-Responsive Protein Delivery. *Advanced Materials*, **2018**, 30, e1801198	24	184
381	Real-time observation of leukocyte-endothelium interactions in tissue-engineered blood vessel. *Lab on A Chip*, **2018**, 18, 2047-2054	7.2	20
380	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	11.5	49
379	Core Transcription Factors, MicroRNAs, and Small Molecules Drive Transdifferentiation of Human Fibroblasts Towards The Cardiac Cell Lineage. *Scientific Reports*, **2017**, 7, 40285	4.9	22
378	Nucleic acid scavenging microfiber mesh inhibits trauma-induced inflammation and thrombosis. *Biomaterials*, **2017**, 120, 94-102	15.6	34
377	A versatile platform for surface modification of microfluidic droplets. *Lab on A Chip*, **2017**, 17, 635-639	7.2	10
376	High-throughput screening of microchip-synthesized genes in programmable double-emulsion droplets. *Nanoscale*, **2017**, 9, 3485-3495	7.7	19

375	Progress in Nanotheranostics Based on Mesoporous Silica Nanomaterial Platforms. *ACS Applied Materials & Interfaces*, **2017**, 9, 10309-10337	9.5	84
374	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	10.8	117
373	Biophysical Regulation of Cell Behavior-Cross Talk between Substrate Stiffness and Nanotopography. *Engineering*, **2017**, 3, 36-54	9.7	129
372	CRISPR/Cas9-Based Genome Editing for Disease Modeling and Therapy: Challenges and Opportunities for Nonviral Delivery. *Chemical Reviews*, **2017**, 117, 9874-9906	68.1	287
371	Extra- and intra-cellular fate of nanocarriers under dynamic interactions with biology. *Nano Today*, **2017**, 14, 84-99	17.9	34
370	Scalable fabrication of size-controlled chitosan nanoparticles for oral delivery of insulin. *Biomaterials*, **2017**, 130, 28-41	15.6	155
369	Application of induced pluripotent stem cells to model smooth muscle cell function in vascular diseases. *Current Opinion in Biomedical Engineering*, **2017**, 1, 38-44	4.4	9
368	Diverse Applications of Nanomedicine. *ACS Nano*, **2017**, 11, 2313-2381	16.7	714
367	Cleavable Multifunctional Targeting Mixed Micelles with Sequential pH-Triggered TAT Peptide Activation for Improved Antihepatocellular Carcinoma Efficacy. *Molecular Pharmaceutics*, **2017**, 14, 3644-3659	5.6	23
366	A highly selective dual-therapeutic nanosystem for simultaneous anticancer and antiangiogenesis therapy. *Journal of Materials Chemistry B*, **2017**, 5, 8228-8237	7.3	9
365	Scarless Wound Closure by a Mussel-Inspired Poly(amidoamine) Tissue Adhesive with Tunable Degradability. *ACS Omega*, **2017**, 2, 6053-6062	3.9	14
364	Functional Recovery of Contused Spinal Cord in Rat with the Injection of Optimal-Dosed Cerium Oxide Nanoparticles. *Advanced Science*, **2017**, 4, 1700034	13.6	42
363	Bioreactor model of neuromuscular junction with electrical stimulation for pharmacological potency testing. *Integrative Biology (United Kingdom)*, **2017**, 9, 956-967	3.7	10
362	Polycationic Nanofibers for Nucleic Acid Scavenging. *Biomacromolecules*, **2016**, 17, 3706-3713	6.9	9
361	Microfluidic Hydrodynamic Focusing for Synthesis of Nanomaterials. *Nano Today*, **2016**, 11, 778-792	17.9	95
360	Cell-laden microfluidic microgels for tissue regeneration. *Lab on A Chip*, **2016**, 16, 4482-4506	7.2	92
359	Expanding Nanopatterned Substrates Using Stitch Technique for Nanotopographical Modulation of Cell Behavior. *Journal of Visualized Experiments*, **2016**,	1.6	3
358	Nanoparticle-mediated inhibition of survivin to overcome drug resistance in cancer therapy. *Journal of Controlled Release*, **2016**, 240, 454-464	11.7	42

357	Inducing enhanced immunogenic cell death with nanocarrier-based drug delivery systems for pancreatic cancer therapy. *Biomaterials*, **2016**, 102, 187-97	15.6	143
356	Biomaterials control of pluripotent stem cell fate for regenerative therapy. *Progress in Materials Science*, **2016**, 82, 234-293	42.2	32
355	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	3.9	59
354	Can microfluidics address biomanufacturing challenges in drug/gene/cell therapies?. *International Journal of Energy Production and Management*, **2016**, 3, 87-98	5.3	27
353	Deterministic transfection drives efficient nonviral reprogramming and uncovers reprogramming barriers. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 399-409	6	29
352	Transdifferentiation of human endothelial progenitors into smooth muscle cells. *Biomaterials*, **2016** , 85, 180-194	15.6	32
351	Smart Theranostic Nanosystems **2016**, 523-549		1
350	Biostable electrospun microfibrous scaffolds mitigate hypertrophic scar contraction in an immune-competent murine model. *Acta Biomaterialia*, **2016**, 32, 100-109	10.8	23
349	Efficient One-Step Production of Microencapsulated Hepatocyte Spheroids with Enhanced Functions. *Small*, **2016**, 12, 2720-30	11	59
348	Coupling spatial segregation with synthetic circuits to control bacterial survival. *Molecular Systems Biology*, **2016**, 12, 859	12.2	25
347	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	3.9	18
346	Signal-on Protein Detection via Dye Translocation between Aptamer and Quantum Dot. *ACS Applied Materials & Interfaces*, **2016**, 8, 12048-55	9.5	23
345	Surface charge critically affects tumor penetration and therapeutic efficacy of cancer nanomedicines. *Nano Today*, **2016**, 11, 133-144	17.9	151
344	Targeted Epigenetic Remodeling of Endogenous Loci by CRISPR/Cas9-Based Transcriptional Activators Directly Converts Fibroblasts to Neuronal Cells. *Cell Stem Cell*, **2016**, 19, 406-14	18	139
343	3D Printing of Highly Stretchable and Tough Hydrogels into Complex, Cellularized Structures. *Advanced Materials*, **2015**, 27, 4035-40	24	577
342	Smart multifunctional drug delivery towards anticancer therapy harmonized in mesoporous nanoparticles. *Nanoscale*, **2015**, 7, 14191-216	7.7	129
341	NanoCluster Beacons as reporter probes in rolling circle enhanced enzyme activity detection. *Nanoscale*, **2015**, 7, 8332-7	7.7	27
340	Mitigation of hypertrophic scar contraction via an elastomeric biodegradable scaffold. *Biomaterials*, **2015**, 43, 61-70	15.6	43

339	Aptamer nanomedicine for cancer therapeutics: barriers and potential for translation. *ACS Nano*, **2015**, 9, 2235-54	16.7	180
338	Engineering mesenchymal stem cells for regenerative medicine and drug delivery. *Methods*, **2015**, 84, 3-16	4.6	129
337	Knockdown of the cell cycle inhibitor p21 enhances cartilage formation by induced pluripotent stem cells. *Tissue Engineering - Part A*, **2015**, 21, 1261-74	3.9	11
336	Integration of drug, protein, and gene delivery systems with regenerative medicine. *Drug Delivery and Translational Research*, **2015**, 5, 168-86	6.2	36
335	Intranasal mRNA nanoparticle vaccination induces prophylactic and therapeutic anti-tumor immunity. *Journal of Controlled Release*, **2015**, 213, e66-7	11.7	1
334	3D Printing: 3D Printing of Highly Stretchable and Tough Hydrogels into Complex, Cellularized Structures. *Advanced Materials*, **2015**, 27, 4034	24	63
333	Immobilization of nucleic acid binding polymers as anti-inflammatory agent in autoimmunity. *Journal of Controlled Release*, **2015**, 213, e136	11.7	2
332	Scaffold-free, Human Mesenchymal Stem Cell-Based Tissue Engineered Blood Vessels. *Scientific Reports*, **2015**, 5, 15116	4.9	65
331	272. Nucleic Acid Scavenging Nanofibers as Anti-Inflammatory Meshes. *Molecular Therapy*, **2015**, 23, S108-S109	11.7	
330	Dynamic control and quantification of bacterial population dynamics in droplets. *Biomaterials*, **2015**, 61, 239-45	15.6	19
329	Plant-based oral tolerance to hemophilia therapy employs a complex immune regulatory response including LAP+CD4+ T cells. *Blood*, **2015**, 125, 2418-27	2.2	47
328	MicroRNA delivery for regenerative medicine. *Advanced Drug Delivery Reviews*, **2015**, 88, 108-22	18.5	98
327	Intranasal mRNA nanoparticle vaccination induces prophylactic and therapeutic anti-tumor immunity. *Scientific Reports*, **2014**, 4, 5128	4.9	68
326	Highly Aligned Nanofibrous Scaffold Derived from Decellularized Human Fibroblasts. *Advanced Functional Materials*, **2014**, 24, 3027-3035	15.6	49
325	Use of cartilage derived from murine induced pluripotent stem cells for osteoarthritis drug screening. *Arthritis and Rheumatology*, **2014**, 66, 3062-72	9.5	34
324	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	10.1	1
323	Magnetoactive sponges for dynamic control of microfluidic flow patterns in microphysiological systems. *Lab on A Chip*, **2014**, 14, 514-521	7.2	22
322	Three-dimensional hydrodynamic focusing method for polyplex synthesis. *ACS Nano*, **2014**, 8, 332-9	16.7	42

321	Harnessing localized ridges for high-aspect-ratio hierarchical patterns with dynamic tunability and multifunctionality. *Advanced Materials*, **2014**, 26, 1763-70	24	147
320	Shape-controlled synthesis of hybrid nanomaterials via three-dimensional hydrodynamic focusing. *ACS Nano*, **2014**, 8, 10026-34	16.7	40
319	Whole blood cells loaded with messenger RNA as an anti-tumor vaccine. *Advanced Healthcare Materials*, **2014**, 3, 837-42	10.1	28
318	Messenger RNA (mRNA) nanoparticle tumour vaccination. *Nanoscale*, **2014**, 6, 7715-29	7.7	52
317	Nonendocytic delivery of lipoplex nanoparticles into living cells using nanochannel electroporation. *Advanced Healthcare Materials*, **2014**, 3, 682-9	10.1	27
316	Synthesis of fluorosurfactants for emulsion-based biological applications. *ACS Nano*, **2014**, 8, 3913-20	16.7	47
315	Recent advances in nanoparticle-mediated siRNA delivery. *Annual Review of Biomedical Engineering*, **2014**, 16, 347-70	12	113
314	Vector modifications to eliminate transposase expression following piggyBac-mediated transgenesis. *Scientific Reports*, **2014**, 4, 7403	4.9	2
313	Nanotopography alters nuclear protein expression, proliferation and differentiation of human mesenchymal stem/stromal cells. *PLoS ONE*, **2014**, 9, e114698	3.7	22
312	Nanograting structure promotes lamellipodia-based cell collective migration and wound healing. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 2916-9	0.9	4
311	A CRISPR/Cas9-based system for reprogramming cell lineage specification. *Stem Cell Reports*, **2014**, 3, 940-7	8	147
310	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, 755-64	3.6	23
309	SOD therapeutics: latest insights into their structure-activity relationships and impact on the cellular redox-based signaling pathways. *Antioxidants and Redox Signaling*, **2014**, 20, 2372-415	8.4	164
308	The effect of substrate topography on direct reprogramming of fibroblasts to induced neurons. *Biomaterials*, **2014**, 35, 5327-5336	15.6	66
307	RNA-guided gene activation by CRISPR-Cas9-based transcription factors. *Nature Methods*, **2013**, 10, 973-6	21.6	861
306	Chemical modification of collagen improves glycosaminoglycan retention of their co-precipitates. *Acta Biomaterialia*, **2013**, 9, 4661-72	10.8	13
305	Multifunctional nanorods serving as nanobridges to modulate T cell-mediated immunity. *ACS Nano*, **2013**, 7, 9771-9	16.7	19
304	A programmable microenvironment for cellular studies via microfluidics-generated double emulsions. *Biomaterials*, **2013**, 34, 4564-72	15.6	68

303	Temperature-controlled encapsulation and release of an active enzyme in the cavity of a self-assembled DNA nanocage. *ACS Nano*, **2013**, 7, 9724-34	16.7	113
302	Comparison of mixed and lamellar coculture spatial arrangements for tissue engineering capillary networks in vitro. *Tissue Engineering - Part A*, **2013**, 19, 697-706	3.9	8
301	Single cell enzyme diagnosis on the chip **2013**,		1
300	Materials innovation for co-delivery of diverse therapeutic cargos. *RSC Advances*, **2013**, 3, 24794-24811	3.7	45
299	Design considerations for an integrated microphysiological muscle tissue for drug and tissue toxicity testing. *Stem Cell Research and Therapy*, **2013**, 4 Suppl 1, S10	8.3	21
298	Transfection efficiency and transgene expression kinetics of mRNA delivered in naked and nanoparticle format. *Journal of Controlled Release*, **2013**, 166, 227-33	11.7	96
297	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	7.8	7
296	In vitro and in vivo models for the study of oral delivery of nanoparticles. *Advanced Drug Delivery Reviews*, **2013**, 65, 800-10	18.5	199
295	Advanced materials and processing for drug delivery: the past and the future. *Advanced Drug Delivery Reviews*, **2013**, 65, 104-20	18.5	708
294	Mechanism of oral tolerance induction to therapeutic proteins. *Advanced Drug Delivery Reviews*, **2013**, 65, 759-73	18.5	59
293	Microfluidic Cell Culture Platforms with Embedded Nanoscale Features **2013**, 3-26		2
292	Microfluidic preparation of polymer-nucleic acid nanocomplexes improves nonviral gene transfer. *Scientific Reports*, **2013**, 3, 3155	4.9	32
291	Rapid formation of multicellular spheroids in double-emulsion droplets with controllable microenvironment. *Scientific Reports*, **2013**, 3, 3462	4.9	162
290	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	3.7	105
289	A robust strategy for negative selection of Cre-loxP recombination-based excision of transgenes in induced pluripotent stem cells. *PLoS ONE*, **2013**, 8, e64342	3.7	15
288	Induced pluripotent stem cell-derived cardiac progenitors differentiate to cardiomyocytes and form biosynthetic tissues. *PLoS ONE*, **2013**, 8, e65963	3.7	49
287	Differentiation of mouse induced pluripotent stem cells (iPSCs) into nucleus pulposus-like cells in vitro. *PLoS ONE*, **2013**, 8, e75548	3.7	42
286	Nanotopography as modulator of human mesenchymal stem cell function. *Biomaterials*, **2012**, 33, 4998-5003	8.3	124

285	Guidance of stem cell fate on 2D patterned surfaces. *Biomaterials*, **2012**, 33, 6626-33	15.6	136
284	Therapeutic nanorods with metallic multi-segments: Thermally inducible encapsulation of doxorubicin for anti-cancer therapy. *Nano Today*, **2012**, 7, 76-84	17.9	21
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