

Lonnie D Shea

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.

237
papers

14,402
citations

65
h-index

110
g-index

244
ext. papers

16,389
ext. citations

9.2
avg, IF

6.79
L-index

#	Paper	IF	Citations
237	Masked Delivery of Allergen in Nanoparticles Safely Attenuates Anaphylactic Response in Murine Models of Peanut Allergy.. <i>Frontiers in Allergy</i> , 2022 , 3, 829605	0	0
236	Neutrophil and natural killer cell imbalances prevent muscle stem cell-mediated regeneration following murine volumetric muscle loss.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2111445119	11.5	1
235	Mechanistic contributions of Kupffer cells and liver sinusoidal endothelial cells in nanoparticle-induced antigen-specific immune tolerance.. <i>Biomaterials</i> , 2022 , 283, 121457	15.6	0
234	Implications of TGFβ Signaling and CDK Inhibition for the Treatment of Breast Cancer. <i>Cancers</i> , 2021 , 13,	6.6	1
233	Pancreatic cancer is marked by complement-high blood monocytes and tumor-associated macrophages. <i>Life Science Alliance</i> , 2021 , 4,	5.8	7
232	IL-10 lentivirus-laden hydrogel tubes increase spinal progenitor survival and neuronal differentiation after spinal cord injury. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 2609-2625	4.9	4
231	Lentiviral Interleukin-10 Gene Therapy Preserves Fine Motor Circuitry and Function After a Cervical Spinal Cord Injury in Male and Female Mice. <i>Neurotherapeutics</i> , 2021 , 18, 503-514	6.4	7
230	Disease-induced immunomodulation at biomaterial scaffolds detects early pancreatic cancer in a spontaneous model. <i>Biomaterials</i> , 2021 , 269, 120632	15.6	4
229	Nanotechnology and biomaterials for immune modulation and monitoring 2021 , 41-65		
228	An injectable PEG hydrogel controlling neurotrophin-3 release by affinity peptides. <i>Journal of Controlled Release</i> , 2021 , 330, 575-586	11.7	5
227	Cargo-free immunomodulatory nanoparticles combined with anti-PD-1 antibody for treating metastatic breast cancer. <i>Biomaterials</i> , 2021 , 269, 120666	15.6	8
226	Restoring normal islet mass and function in type 1 diabetes through regenerative medicine and tissue engineering. <i>Lancet Diabetes and Endocrinology</i> , 2021 , 9, 708-724	18.1	3
225	Adrenergic Blockade Promotes Maintenance of Dormancy in Prostate Cancer Through Upregulation of GAS6. <i>Translational Oncology</i> , 2020 , 13, 100781	4.9	7
224	Porous Silicon Nanoparticles Embedded in Poly(lactic--glycolic acid) Nanofiber Scaffolds Deliver Neurotrophic Payloads to Enhance Neuronal Growth. <i>Advanced Functional Materials</i> , 2020 , 30, 2002560	15.6	11
223	Engineered Niches to Analyze Mechanisms of Metastasis and Guide Precision Medicine. <i>Cancer Research</i> , 2020 , 80, 3786-3794	10.1	10
222	Towards systems tissue engineering: Elucidating the dynamics, spatial coordination, and individual cells driving emergent behaviors. <i>Biomaterials</i> , 2020 , 255, 120189	15.6	4
221	Neutrophils preferentially phagocytose elongated particles-An opportunity for selective targeting in acute inflammatory diseases. <i>Science Advances</i> , 2020 , 6, eaba1474	14.3	33

220	Polycistronic Delivery of IL-10 and NT-3 Promotes Oligodendrocyte Myelination and Functional Recovery in a Mouse Spinal Cord Injury Model. <i>Tissue Engineering - Part A</i> , 2020 , 26, 672-682	3.9	14
219	Gliadin Nanoparticles Induce Immune Tolerance to Gliadin in Mouse Models of Celiac Disease. <i>Gastroenterology</i> , 2020 , 158, 1667-1681.e12	13.3	43
218	Ligands, Receptors, and Transcription Factors that Mediate Inter-Cellular and Intra-Cellular Communication during Ovarian Follicle Development. <i>Reproductive Sciences</i> , 2020 , 27, 690-703	3	7
217	Delivery of Interleukin-4-Encoding Lentivirus Using Multiple-Channel Bridges Enhances Nerve Regeneration. <i>Laryngoscope</i> , 2020 , 130, 2802-2810	3.6	1
216	Metastatic Conditioning of Myeloid Cells at a Subcutaneous Synthetic Niche Reflects Disease Progression and Predicts Therapeutic Outcomes. <i>Cancer Research</i> , 2020 , 80, 602-612	10.1	17
215	Microporous scaffolds loaded with immunomodulatory lentivirus to study the contribution of immune cell populations to tumor cell recruitment in vivo. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 210-222	4.9	6
214	Human lung organoids develop into adult airway-like structures directed by physico-chemical biomaterial properties. <i>Biomaterials</i> , 2020 , 234, 119757	15.6	24
213	Developing a Model for Integrating Professional Practice and Evidence-Based Teaching Practices into BME Curriculum. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 881-892	4.7	6
212	Cyclin E overexpression confers resistance to trastuzumab through noncanonical phosphorylation of SMAD3 in HER2+ breast cancer. <i>Cancer Biology and Therapy</i> , 2020 , 21, 994-1004	4.6	2
211	Modulating lung immune cells by pulmonary delivery of antigen-specific nanoparticles to treat autoimmune disease. <i>Science Advances</i> , 2020 , 6,	14.3	17
210	Engineered immunological niches to monitor disease activity and treatment efficacy in relapsing multiple sclerosis. <i>Nature Communications</i> , 2020 , 11, 3871	17.4	6
209	Regulation of adipose tissue inflammation and systemic metabolism in murine obesity by polymer implants loaded with lentiviral vectors encoding human interleukin-4. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 3891-3901	4.9	2
208	Acute Implantation of Aligned Hydrogel Tubes Supports Delayed Spinal Progenitor Implantation. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 5771-5784	5.5	9
207	Integration of Islet/Beta-Cell Transplants with Host Tissue Using Biomaterial Platforms. <i>Endocrinology</i> , 2020 , 161,	4.8	2
206	Hydrogel and neural progenitor cell delivery supports organotypic fetal spinal cord development in an model of prenatal spina bifida repair. <i>Journal of Tissue Engineering</i> , 2020 , 11, 2041731420943833	7.5	2
205	High Frequency Spectral Ultrasound Imaging to Detect Metastasis in Implanted Biomaterial Scaffolds. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 477-489	4.7	4
204	Design of biodegradable nanoparticles to modulate phenotypes of antigen-presenting cells for antigen-specific treatment of autoimmune disease. <i>Biomaterials</i> , 2019 , 222, 119432	15.6	34
203	Generation of lung organoids from human pluripotent stem cells in vitro. <i>Nature Protocols</i> , 2019 , 14, 518-540	18.8	142

202	Dynamic genome-scale cell-specific metabolic models reveal novel inter-cellular and intra-cellular metabolic communications during ovarian follicle development. <i>BMC Bioinformatics</i> , 2019 , 20, 307	3.6	9
201	Optimizing PLG nanoparticle-peptide delivery platforms for transplantation tolerance using an allogeneic skin transplant model. <i>Biomaterials</i> , 2019 , 210, 70-82	15.6	11
200	Cancer nanomedicine for combination cancer immunotherapy. <i>Nature Reviews Materials</i> , 2019 , 4, 398-414	13.3	372
199	Biomaterial Scaffolds Recruit an Aggressive Population of Metastatic Tumor Cells. <i>Cancer Research</i> , 2019 , 79, 2042-2053	10.1	19
198	Cargo-less nanoparticles program innate immune cell responses to toll-like receptor activation. <i>Biomaterials</i> , 2019 , 218, 119333	15.6	26
197	Intravascular innate immune cells reprogrammed via intravenous nanoparticles to promote functional recovery after spinal cord injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14947-14954	11.5	42
196	Microporous scaffolds support assembly and differentiation of pancreatic progenitors into β cell clusters. <i>Acta Biomaterialia</i> , 2019 , 96, 111-122	10.8	17
195	PLG Bridge Implantation in Chronic SCI Promotes Axonal Elongation and Myelination. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 6679-6690	5.5	2
194	Precision health for breast cancer metastasis: biomaterial scaffolds as an engineered metastatic niche to define, study, and monitor metastatic progression. <i>Oncoscience</i> , 2019 , 6, 380-382	0.8	2
193	Designing drug-free biodegradable nanoparticles to modulate inflammatory monocytes and neutrophils for ameliorating inflammation. <i>Journal of Controlled Release</i> , 2019 , 300, 185-196	11.7	42
192	Combinatorial lentiviral gene delivery of pro-oligodendrogenic factors for improving myelination of regenerating axons after spinal cord injury. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 155-167	4.9	9
191	Localized immune tolerance from FasL-functionalized PLG scaffolds. <i>Biomaterials</i> , 2019 , 192, 271-281	15.6	13
190	Aligned hydrogel tubes guide regeneration following spinal cord injury. <i>Acta Biomaterialia</i> , 2019 , 86, 312-322	10.8	49
189	Overcoming challenges in treating autoimmunity: Development of tolerogenic immune-modifying nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 18, 282-291	6	46
188	Biomaterial Scaffolds as Pre-metastatic Niche Mimics Systemically Alter the Primary Tumor and Tumor Microenvironment. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1700903	10.1	20
187	Microporous Polymer Scaffolds for the Transplantation of Embryonic Stem Cell Derived Pancreatic Progenitors to a Clinically Translatable Site for the Treatment of Type I Diabetes. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1770-1778	5.5	20
186	Tolerogenic Ag-PLG nanoparticles induce tregs to suppress activated diabetogenic CD4 and CD8 T cells. <i>Journal of Autoimmunity</i> , 2018 , 89, 112-124	15.5	56
185	Local Immunomodulation with Anti-inflammatory Cytokine-Encoding Lentivirus Enhances Functional Recovery after Spinal Cord Injury. <i>Molecular Therapy</i> , 2018 , 26, 1756-1770	11.7	31

184	Retrievable hydrogels for ovarian follicle transplantation and oocyte collection. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2075-2086	4.9	25
183	Embryonic stem cell secreted factors decrease invasiveness of triple-negative breast cancer cells through regulome modulation. <i>Cancer Biology and Therapy</i> , 2018 , 19, 271-281	4.6	4
182	Dynamic microRNA activity identifies therapeutic targets in trastuzumab-resistant HER2 breast cancer. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2613-2623	4.9	9
181	Evaluation of biomaterial scaffold delivery of IL-33 as a localized immunomodulatory agent to support cell transplantation in adipose tissue. <i>Journal of Immunology and Regenerative Medicine</i> , 2018 , 1, 1-12	2.8	17
180	It's All in the Delivery: Designing Hydrogels for Cell and Non-viral Gene Therapies. <i>Molecular Therapy</i> , 2018 , 26, 2087-2106	11.7	48
179	Local immunomodulation Fas ligand-engineered biomaterials achieves allogeneic islet graft acceptance. <i>Nature Materials</i> , 2018 , 17, 732-739	27	72
178	Evaluation of encapsulating and microporous nondegradable hydrogel scaffold designs on islet engraftment in rodent models of diabetes. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2356-2364	4.9	14
177	Pre-Metastatic Niche: Biomaterial Scaffolds as Pre-metastatic Niche Mimics Systemically Alter the Primary Tumor and Tumor Microenvironment (Adv. Healthcare Mater. 10/2018). <i>Advanced Healthcare Materials</i> , 2018 , 7, 1870040	10.1	
176	Feasibility study on mouse live imaging after spinal cord injury and poly(lactide-co-glycolide) bridge implantation. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-6	3.5	4
175	Apoptosis-induced CXCL5 accelerates inflammation and growth of prostate tumor metastases in bone. <i>Journal of Clinical Investigation</i> , 2018 , 128, 248-266	15.9	62
174	Conjugation of Transforming Growth Factor Beta to Antigen-Loaded Poly(lactide-co-glycolide) Nanoparticles Enhances Efficiency of Antigen-Specific Tolerance. <i>Bioconjugate Chemistry</i> , 2018 , 29, 813-823	6.3	43
173	Reducing inflammation through delivery of lentivirus encoding for anti-inflammatory cytokines attenuates neuropathic pain after spinal cord injury. <i>Journal of Controlled Release</i> , 2018 , 290, 88-101	11.7	32
172	Synergy of Paracrine Signaling During Early-Stage Mouse Ovarian Follicle Development. <i>Cellular and Molecular Bioengineering</i> , 2018 , 11, 435-450	3.9	8
171	Spinal Progenitor-Laden Bridges Support Earlier Axon Regeneration Following Spinal Cord Injury. <i>Tissue Engineering - Part A</i> , 2018 , 24, 1588-1602	3.9	11
170	Design of Large-Scale Reporter Construct Arrays for Dynamic, Live Cell Systems Biology. <i>ACS Synthetic Biology</i> , 2018 , 7, 2063-2073	5.7	3
169	Peptide-Conjugated Nanoparticles Reduce Positive Co-stimulatory Expression and T Cell Activity to Induce Tolerance. <i>Molecular Therapy</i> , 2017 , 25, 1676-1685	11.7	57
168	In vivo reprogramming of immune cells: Technologies for induction of antigen-specific tolerance. <i>Advanced Drug Delivery Reviews</i> , 2017 , 114, 240-255	18.5	70
167	Phosphate regulates chondrogenesis in a biphasic and maturation-dependent manner. <i>Differentiation</i> , 2017 , 95, 54-62	3.5	4

166	Vasculogenic hydrogel enhances islet survival, engraftment, and function in leading extrahepatic sites. <i>Science Advances</i> , 2017 , 3, e1700184	14.3	95
165	Engineering the pre-metastatic niche. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	73
164	Systems analysis of dynamic transcription factor activity identifies targets for treatment in Olaparib resistant cancer cells. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 2085-2095	4.9	10
163	Advances in islet encapsulation technologies. <i>Nature Reviews Drug Discovery</i> , 2017 , 16, 338-350	64.1	214
162	Take a deep breath and digest the material: organoids and biomaterials of the respiratory and digestive systems. <i>MRS Communications</i> , 2017 , 7, 502-514	2.7	4
161	An antigen-encapsulating nanoparticle platform for T1/17 immune tolerance therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 191-200	6	66
160	Synergistic effect of eribulin and CDK inhibition for the treatment of triple negative breast cancer. <i>Oncotarget</i> , 2017 , 8, 83925-83939	3.3	25
159	Controlled Delivery of Single or Multiple Antigens in Tolerogenic Nanoparticles Using Peptide-Polymer Bioconjugates. <i>Molecular Therapy</i> , 2017 , 25, 1655-1664	11.7	53
158	Dynamic transcription factor activity networks in response to independently altered mechanical and adhesive microenvironmental cues. <i>Integrative Biology (United Kingdom)</i> , 2016 , 8, 844-60	3.7	17
157	Enhanced Survival with Implantable Scaffolds That Capture Metastatic Breast Cancer Cells In Vivo. <i>Cancer Research</i> , 2016 , 76, 5209-18	10.1	68
156	Plakophilin-2 loss promotes TGF- β /p38 MAPK-dependent fibrotic gene expression in cardiomyocytes. <i>Journal of Cell Biology</i> , 2016 , 212, 425-38	7.3	60
155	Extracellular matrix mediators of metastatic cell colonization characterized using scaffold mimics of the pre-metastatic niche. <i>Acta Biomaterialia</i> , 2016 , 33, 13-24	10.8	48
154	Transforming growth factor-beta 1 delivery from microporous scaffolds decreases inflammation post-implant and enhances function of transplanted islets. <i>Biomaterials</i> , 2016 , 80, 11-19	15.6	76
153	Semi-automated counting of axon regeneration in poly(lactide co-glycolide) spinal cord bridges. <i>Journal of Neuroscience Methods</i> , 2016 , 263, 15-22	3	12
152	Tolerance induction using nanoparticles bearing HY peptides in bone marrow transplantation. <i>Biomaterials</i> , 2016 , 76, 1-10	15.6	37
151	Localized lentivirus delivery via peptide interactions. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2033-40	4.9	10
150	Mold-casted non-degradable, islet macro-encapsulating hydrogel devices for restoration of normoglycemia in diabetic mice. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2485-95	4.9	17
149	Reducing neuroinflammation by delivery of IL-10 encoding lentivirus from multiple-channel bridges. <i>Bioengineering and Translational Medicine</i> , 2016 , 1, 136-148	14.8	27

148	Immune Tolerance for Autoimmune Disease and Cell Transplantation. <i>Annual Review of Biomedical Engineering</i> , 2016 , 18, 181-205	12	53
147	Biodegradable antigen-associated PLG nanoparticles tolerize Th2-mediated allergic airway inflammation pre- and postsensitization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5059-64	11.5	61
146	Tissue Engineering Approaches to Modulate the Inflammatory Milieu following Spinal Cord Injury. <i>Cells Tissues Organs</i> , 2016 , 202, 52-66	2.1	29
145	Poly(lactide-co-glycolide) microspheres for MRI-monitored delivery of sorafenib in a rabbit VX2 model. <i>Biomaterials</i> , 2015 , 61, 299-306	15.6	34
144	Size-specific follicle selection improves mouse oocyte reproductive outcomes. <i>Reproduction</i> , 2015 , 150, 183-92	3.8	41
143	Biomaterial bridges enable regeneration and re-entry of corticospinal tract axons into the caudal spinal cord after SCI: Association with recovery of forelimb function. <i>Biomaterials</i> , 2015 , 65, 1-12	15.6	49
142	Harnessing nanoparticles for immune modulation. <i>Trends in Immunology</i> , 2015 , 36, 419-27	14.4	148
141	Sponge-mediated lentivirus delivery to acute and chronic spinal cord injuries. <i>Journal of Controlled Release</i> , 2015 , 204, 1-10	11.7	19
140	Cellular and molecular targeting for nanotherapeutics in transplantation tolerance. <i>Clinical Immunology</i> , 2015 , 160, 14-23	9	21
139	Engineering the ovarian cycle using in vitro follicle culture. <i>Human Reproduction</i> , 2015 , 30, 1386-95	5.7	64
138	Controlled release strategies for modulating immune responses to promote tissue regeneration. <i>Journal of Controlled Release</i> , 2015 , 219, 155-166	11.7	25
137	In vivo capture and label-free detection of early metastatic cells. <i>Nature Communications</i> , 2015 , 6, 8094	17.4	100
136	In vitro follicle growth supports human oocyte meiotic maturation. <i>Scientific Reports</i> , 2015 , 5, 17323	4.9	141
135	Secretome identification of immune cell factors mediating metastatic cell homing. <i>Scientific Reports</i> , 2015 , 5, 17566	4.9	19
134	Multi-modal magnetic resonance elastography for noninvasive assessment of ovarian tissue rigidity in vivo. <i>Acta Biomaterialia</i> , 2015 , 13, 295-300	10.8	32
133	Fibrin-mediated delivery of an ovarian follicle pool in a mouse model of infertility. <i>Tissue Engineering - Part A</i> , 2014 , 20, 3021-30	3.9	34
132	Dynamic transcription factor activity profiles reveal key regulatory interactions during megakaryocytic and erythroid differentiation. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 2082-94	4.9	6
131	Sonic hedgehog and neurotrophin-3 increase oligodendrocyte numbers and myelination after spinal cord injury. <i>Integrative Biology (United Kingdom)</i> , 2014 , 6, 694-705	3.7	55

130	Heparin-chitosan nanoparticle functionalization of porous poly(ethylene glycol) hydrogels for localized lentivirus delivery of angiogenic factors. <i>Biomaterials</i> , 2014 , 35, 8687-93	15.6	36
129	Nanoparticle delivery of donor antigens for transplant tolerance in allogeneic islet transplantation. <i>Biomaterials</i> , 2014 , 35, 8887-8894	15.6	69
128	Bioengineering the ovarian follicle microenvironment. <i>Annual Review of Biomedical Engineering</i> , 2014 , 16, 29-52	12	106
127	Alginate encapsulation supports the growth and differentiation of human primordial follicles within ovarian cortical tissue. <i>Journal of Assisted Reproduction and Genetics</i> , 2014 , 31, 1013-28	3.4	81
126	Modulation of leukocyte infiltration and phenotype in microporous tissue engineering scaffolds via vector induced IL-10 expression. <i>Biomaterials</i> , 2014 , 35, 2024-31	15.6	60
125	A biodegradable nanoparticle platform for the induction of antigen-specific immune tolerance for treatment of autoimmune disease. <i>ACS Nano</i> , 2014 , 8, 2148-60	16.7	209
124	Promoting extracellular matrix remodeling via ascorbic acid enhances the survival of primary ovarian follicles encapsulated in alginate hydrogels. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 1417-29	4.9	33
123	Cryotemplation for the Rapid Fabrication of Porous, Patternable Photopolymerized Hydrogels. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4521-4530	7.3	9
122	Poly(lactide-co-glycolide) microspheres for MRI-monitored transcatheter delivery of sorafenib to liver tumors. <i>Journal of Controlled Release</i> , 2014 , 184, 10-7	11.7	49
121	Quantification of particle-conjugated or particle-encapsulated peptides on interfering reagent backgrounds. <i>BioTechniques</i> , 2014 , 57, 39-44	2.5	13
120	Inhibition of CDK-mediated phosphorylation of Smad3 results in decreased oncogenesis in triple negative breast cancer cells. <i>Cell Cycle</i> , 2014 , 13, 3191-201	4.7	26
119	Three-dimensional systems for in vitro follicular culture: overview of alginate-based matrices. <i>Reproduction, Fertility and Development</i> , 2014 , 26, 915-30	1.8	37
118	Long-term characterization of axon regeneration and matrix changes using multiple channel bridges for spinal cord regeneration. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1027-37	3.9	23
117	Collagen IV-modified scaffolds improve islet survival and function and reduce time to euglycemia. <i>Tissue Engineering - Part A</i> , 2013 , 19, 2361-72	3.9	48
116	Supplemented MEM/F12-based medium enables the survival and growth of primary ovarian follicles encapsulated in alginate hydrogels. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 3258-68	4.9	13
115	Channel density and porosity of degradable bridging scaffolds on axon growth after spinal injury. <i>Biomaterials</i> , 2013 , 34, 2213-20	15.6	61
114	Future Directions in Oncofertility and Fertility Preservation: A Report from the 2011 Oncofertility Consortium Conference. <i>Journal of Adolescent and Young Adult Oncology</i> , 2013 , 2, 25-30	2.2	51
113	PLG scaffold delivered antigen-specific regulatory T cells induce systemic tolerance in autoimmune diabetes. <i>Tissue Engineering - Part A</i> , 2013 , 19, 1465-75	3.9	50

112	Evidence for chromosome 2p16.3 polycystic ovary syndrome susceptibility locus in affected women of European ancestry. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013 , 98, E185-90	5.6	95
111	Gene delivery to overcome astrocyte inhibition of axonal growth: an in vitro model of the glial scar. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 947-57	4.9	10
110	Polysaccharide-modified scaffolds for controlled lentivirus delivery in vitro and after spinal cord injury. <i>Journal of Controlled Release</i> , 2013 , 170, 421-9	11.7	40
109	Hydrogels for lentiviral gene delivery. <i>Expert Opinion on Drug Delivery</i> , 2013 , 10, 499-509	8	47
108	Microarray analysis identifies COMP as the most differentially regulated transcript throughout in vitro follicle growth. <i>Molecular Reproduction and Development</i> , 2013 , 80, 132-44	2.6	14
107	Dynamic transcription factor activity profiling in 2D and 3D cell cultures. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 563-72	4.9	17
106	Matrix rigidity activates Wnt signaling through down-regulation of Dickkopf-1 protein. <i>Journal of Biological Chemistry</i> , 2013 , 288, 141-51	5.4	38
105	Porous scaffolds support extrahepatic human islet transplantation, engraftment, and function in mice. <i>Cell Transplantation</i> , 2013 , 22, 811-9	4	33
104	Sustained, localized transgene expression mediated from lentivirus-loaded biodegradable polyester elastomers. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 1328-35	5.4	9
103	Dynamic transcription factor networks in epithelial-mesenchymal transition in breast cancer models. <i>PLoS ONE</i> , 2013 , 8, e57180	3.7	20
102	Nano-encapsulation of arsenic trioxide enhances efficacy against murine lymphoma model while minimizing its impact on ovarian reserve in vitro and in vivo. <i>PLoS ONE</i> , 2013 , 8, e58491	3.7	52
101	Multifunctional, multichannel bridges that deliver neurotrophin encoding lentivirus for regeneration following spinal cord injury. <i>Biomaterials</i> , 2012 , 33, 1618-26	15.6	87
100	The impact of adhesion peptides within hydrogels on the phenotype and signaling of normal and cancerous mammary epithelial cells. <i>Biomaterials</i> , 2012 , 33, 3548-59	15.6	42
99	Fibrin hydrogels for lentiviral gene delivery in vitro and in vivo. <i>Journal of Controlled Release</i> , 2012 , 157, 80-5	11.7	61
98	Hydrogel design for supporting neurite outgrowth and promoting gene delivery to maximize neurite extension. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 830-9	4.9	21
97	Microparticles bearing encephalitogenic peptides induce T-cell tolerance and ameliorate experimental autoimmune encephalomyelitis. <i>Nature Biotechnology</i> , 2012 , 30, 1217-24	44.5	287
96	Chromosome cohesion decreases in human eggs with advanced maternal age. <i>Aging Cell</i> , 2012 , 11, 1121-9	4.9	121
95	Hydrogel macroporosity and the prolongation of transgene expression and the enhancement of angiogenesis. <i>Biomaterials</i> , 2012 , 33, 7412-21	15.6	41

94	Embryonic fibroblasts enable the culture of primary ovarian follicles within alginate hydrogels. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1229-38	3.9	39
93	In vitro oocyte maturation and preantral follicle culture from the luteal-phase baboon ovary produce mature oocytes. <i>Biology of Reproduction</i> , 2011 , 84, 689-97	3.9	87
92	Engineering biomaterial systems to enhance viral vector gene delivery. <i>Molecular Therapy</i> , 2011 , 19, 1407-15	11.5	96
91	Tissue engineering tools for modulation of the immune response. <i>BioTechniques</i> , 2011 , 51, 239-40, 242, 244 passim	2.5	174
90	Extrahepatic islet transplantation with microporous polymer scaffolds in syngeneic mouse and allogeneic porcine models. <i>Biomaterials</i> , 2011 , 32, 9677-84	15.6	60
89	A new hypothesis regarding ovarian follicle development: ovarian rigidity as a regulator of selection and health. <i>Journal of Assisted Reproduction and Genetics</i> , 2011 , 28, 3-6	3.4	100
88	Permanent protection of PLG scaffold transplanted allogeneic islet grafts in diabetic mice treated with ECDI-fixed donor splenocyte infusions. <i>Biomaterials</i> , 2011 , 32, 4517-24	15.6	47
87	Hydrogels to modulate lentivirus delivery in vivo from microporous tissue engineering scaffolds. <i>Drug Delivery and Translational Research</i> , 2011 , 1, 91-101	6.2	18
86	Vascular endothelial growth factor and fibroblast growth factor 2 delivery from spinal cord bridges to enhance angiogenesis following injury. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 98, 372-82	5.4	35
85	Cellular arrays for large-scale analysis of transcription factor activity. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 395-403	4.9	19
84	Fibrin encapsulation and vascular endothelial growth factor delivery promotes ovarian graft survival in mice. <i>Tissue Engineering - Part A</i> , 2011 , 17, 3095-104	3.9	87
83	Hydrogel network design using multifunctional macromers to coordinate tissue maturation in ovarian follicle culture. <i>Biomaterials</i> , 2011 , 32, 2524-31	15.6	109
82	Gene therapy vectors with enhanced transfection based on hydrogels modified with affinity peptides. <i>Biomaterials</i> , 2011 , 32, 5092-9	15.6	25
81	Noninvasive index of cryorecovery and growth potential for human follicles in vitro. <i>Biology of Reproduction</i> , 2010 , 82, 1180-9	3.9	36
80	Microenvironmental regulation of chemokine (C-X-C-motif) receptor 4 in ovarian carcinoma. <i>Molecular Cancer Research</i> , 2010 , 8, 653-64	6.6	47
79	Stem/progenitor cell-mediated de novo regeneration of dental pulp with newly deposited continuous layer of dentin in an in vivo model. <i>Tissue Engineering - Part A</i> , 2010 , 16, 605-15	3.9	452
78	A novel two-step strategy for in vitro culture of early-stage ovarian follicles in the mouse. <i>Fertility and Sterility</i> , 2010 , 93, 2633-9	4.8	116
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