

Molly S Shoichet

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.

254
papers

18,908
citations

77
h-index

127
g-index

275
ext. papers

20,775
ext. citations

9.8
avg, IF

7.26
L-index

#	Paper	IF	Citations
254	Stable oxime-crosslinked hyaluronan-based hydrogel as a biomimetic vitreous substitute. <i>Biomaterials</i> , 2021 , 271, 120750	15.6	7
253	Gelatin-Hyaluronan Click-Crosslinked Cryogels Elucidate Human Macrophage Invasion Behavior. <i>Advanced Functional Materials</i> , 2021 , 31, 2008400	15.6	5
252	Designing Hydrogels for 3D Cell Culture Using Dynamic Covalent Crosslinking. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100234	10.1	20
251	Photochemically Activated Notch Signaling Hydrogel Preferentially Differentiates Human Derived Hepatoblasts to Cholangiocytes. <i>Advanced Functional Materials</i> , 2021 , 31, 2006116	15.6	5
250	Single-cell chromatin accessibility profiling of glioblastoma identifies an invasive cancer stem cell population associated with lower survival. <i>ELife</i> , 2021 , 10,	8.9	9
249	Wielding the Double-Edged Sword of Inflammation: Building Biomaterial-Based Strategies for Immunomodulation in Ischemic Stroke Treatment. <i>Advanced Functional Materials</i> , 2021 , 31, 2010674	15.6	0
248	Human Macrophage Invasion: Gelatin-Hyaluronan Click-Crosslinked Cryogels Elucidate Human Macrophage Invasion Behavior (Adv. Funct. Mater. 28/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170205	15.6	1
247	Attenuated diphtheria toxin mediates siRNA delivery. <i>Science Advances</i> , 2020 , 6,	14.3	9
246	Nanoparticle delivery of a pH-sensitive prodrug of doxorubicin and a mitochondrial targeting VES-HR synergistically kill multi-drug resistant breast cancer cells. <i>Scientific Reports</i> , 2020 , 10, 8726	4.9	6
245	Evaluation of ASCs and HUVECs Co-cultures in 3D Biodegradable Hydrogels on Neurite Outgrowth and Vascular Organization. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 489	5.7	5
244	Nonswelling, Ultralow Content Inverse Electron-Demand Diels-Alder Hyaluronan Hydrogels with Tunable Gelation Time: Synthesis and In Vitro Evaluation. <i>Advanced Functional Materials</i> , 2020 , 30, 1903978	15.6	25
243	Designer Biomaterials to Model Cancer Cell Invasion In Vitro: Predictive Tools or Just Pretty Pictures?. <i>Advanced Functional Materials</i> , 2020 , 30, 1909032	15.6	6
242	Injectable hydrogel enables local and sustained co-delivery to the brain: Two clinically approved biomolecules, cyclosporine and erythropoietin, accelerate functional recovery in rat model of stroke. <i>Biomaterials</i> , 2020 , 235, 119794	15.6	20
241	Inverse Electron-Demand Diels-Alder Methylcellulose Hydrogels Enable the Co-delivery of Chondroitinase ABC and Neural Progenitor Cells. <i>Biomacromolecules</i> , 2020 , 21, 2421-2431	6.9	16
240	An Injectable Hyaluronan-Methylcellulose (HAMC) Hydrogel Combined with Wharton's Jelly-Derived Mesenchymal Stromal Cells (WJ-MSCs) Promotes Degenerative Disc Repair. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	15
239	Hydrogel-mediated co-transplantation of retinal pigmented epithelium and photoreceptors restores vision in an animal model of advanced retinal degeneration. <i>Biomaterials</i> , 2020 , 257, 120233	15.6	8
238	Reengineering biocatalysts: Computational redesign of chondroitinase ABC improves efficacy and stability. <i>Science Advances</i> , 2020 , 6, eabc6378	14.3	7

237	Transplantation of Directly Reprogrammed Human Neural Precursor Cells Following Stroke Promotes Synaptogenesis and Functional Recovery. <i>Translational Stroke Research</i> , 2020 , 11, 93-107	7.8	23
236	Local delivery of stabilized chondroitinase ABC degrades chondroitin sulfate proteoglycans in stroke-injured rat brains. <i>Journal of Controlled Release</i> , 2019 , 297, 14-25	11.7	23
235	Microglia are an essential component of the neuroprotective scar that forms after spinal cord injury. <i>Nature Communications</i> , 2019 , 10, 518	17.4	189
234	Triggered Release Enhances the Cytotoxicity of Stable Colloidal Drug Aggregates. <i>ACS Chemical Biology</i> , 2019 , 14, 1507-1514	4.9	5
233	Local delivery of FK506 to injured peripheral nerve enhances axon regeneration after surgical nerve repair in rats. <i>Acta Biomaterialia</i> , 2019 , 96, 211-221	10.8	21
232	Cationic block amphiphiles show anti-mitochondrial activity in multi-drug resistant breast cancer cells. <i>Journal of Controlled Release</i> , 2019 , 305, 210-219	11.7	9
231	Effect of Sugar 2P4P Modifications on Gene Silencing Activity of siRNA Duplexes. <i>Nucleic Acid Therapeutics</i> , 2019 , 29, 187-194	4.8	13
230	Colloidal Drug Aggregate Stability in High Serum Conditions and Pharmacokinetic Consequence. <i>ACS Chemical Biology</i> , 2019 , 14, 751-757	4.9	16
229	A hyaluronan/methylcellulose-based hydrogel for local cell and biomolecule delivery to the central nervous system. <i>Brain Research Bulletin</i> , 2019 , 148, 46-54	3.9	29
228	Modulated Protein Delivery to Engineer Tissue Repair. <i>Tissue Engineering - Part A</i> , 2019 , 25, 925-930	3.9	7
227	Rationally Designed 3D Hydrogels Model Invasive Lung Diseases Enabling High-Content Drug Screening. <i>Advanced Materials</i> , 2019 , 31, e1806214	24	32
226	Benchmarking to the Gold Standard: Hyaluronan-Oxime Hydrogels Recapitulate Xenograft Models with In Vitro Breast Cancer Spheroid Culture. <i>Advanced Materials</i> , 2019 , 31, e1901166	24	29
225	Induction of Rod and Cone Photoreceptor-Specific Progenitors from Stem Cells. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1185, 551-555	3.6	
224	Controlled release strategy designed for intravitreal protein delivery to the retina. <i>Journal of Controlled Release</i> , 2019 , 293, 10-20	11.7	35
223	Initial cell maturity changes following transplantation in a hyaluronan-based hydrogel and impacts therapeutic success in the stroke-injured rodent brain. <i>Biomaterials</i> , 2019 , 192, 309-322	15.6	20
222	Local Delivery of Brain-Derived Neurotrophic Factor Enables Behavioral Recovery and Tissue Repair in Stroke-Injured Rats. <i>Tissue Engineering - Part A</i> , 2019 , 25, 1175-1187	3.9	27
221	Modeling of Photoreceptor Donor-Host Interaction Following Transplantation Reveals a Role for Crx, Müller Glia, and Rho/ROCK Signaling in Neurite Outgrowth. <i>Stem Cells</i> , 2019 , 37, 529-541	5.8	9
220	Photo-immobilized EGF chemical gradients differentially impact breast cancer cell invasion and drug response in defined 3D hydrogels. <i>Biomaterials</i> , 2018 , 178, 751-766	15.6	39

219	Diels-Alder Click-Cross-Linked Hydrogels with Increased Reactivity Enable 3D Cell Encapsulation. <i>Biomacromolecules</i> , 2018 , 19, 926-935	6.9	85
218	Effect of hyaluronic acid hydrogels containing astrocyte-derived extracellular matrix and/or V2a interneurons on histologic outcomes following spinal cord injury. <i>Biomaterials</i> , 2018 , 162, 208-223	15.6	49
217	Muscle stem cell intramuscular delivery within hyaluronan methylcellulose improves engraftment efficiency and dispersion. <i>Biomaterials</i> , 2018 , 173, 34-46	15.6	25
216	Reply to Comment on Adult skin-derived precursor Schwann cell grafts form growths in the injured spinal cord of Fischer rats. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 048002	3.5	
215	Colloidal aggregation: from screening nuisance to formulation nuance. <i>Nano Today</i> , 2018 , 19, 188-200	17.9	44
214	In Vitro Maturation of Human iPSC-Derived Neuroepithelial Cells Influences Transplant Survival in the Stroke-Injured Rat Brain. <i>Tissue Engineering - Part A</i> , 2018 , 24, 351-360	3.9	22
213	Adult skin-derived precursor Schwann cell grafts form growths in the injured spinal cord of Fischer rats. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 034101	3.5	7
212	Combined delivery of chondroitinase ABC and human induced pluripotent stem cell-derived neuroepithelial cells promote tissue repair in an animal model of spinal cord injury. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 024103	3.5	30
211	Harnessing the Potential of Biomaterials for Brain Repair after Stroke. <i>Frontiers in Materials</i> , 2018 , 5,	4	22
210	Antibody-Antisense Oligonucleotide Conjugate Downregulates a Key Gene in Glioblastoma Stem Cells. <i>Molecular Therapy - Nucleic Acids</i> , 2018 , 11, 518-527	10.7	33
209	Bioengineered and Regenerative Medicine Strategies for Retina Repair. <i>Fundamental Biomedical Technologies</i> , 2018 , 51-86		
208	Induction of rod versus cone photoreceptor-specific progenitors from retinal precursor cells. <i>Stem Cell Research</i> , 2018 , 33, 215-227	1.6	8
207	Human Oligodendrogenic Neural Progenitor Cells Delivered with Chondroitinase ABC Facilitate Functional Repair of Chronic Spinal Cord Injury. <i>Stem Cell Reports</i> , 2018 , 11, 1433-1448	8	52
206	Biomaterials for cell transplantation. <i>Nature Reviews Materials</i> , 2018 , 3, 441-456	73.3	92
205	Biomaterials driving repair after stroke. <i>Nature Materials</i> , 2018 , 17, 573-574	27	5
204	Preclinical evaluation of taxane-binding peptide-modified polymeric micelles loaded with docetaxel in an orthotopic breast cancer mouse model. <i>Biomaterials</i> , 2017 , 123, 39-47	15.6	31
203	Engineered polymeric nanoparticles to guide the cellular internalization and trafficking of small interfering ribonucleic acids. <i>Journal of Controlled Release</i> , 2017 , 259, 3-15	11.7	26
202	Combinatorial Therapies After Spinal Cord Injury: How Can Biomaterials Help?. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601130	10.1	90

201	Local delivery of chondroitinase ABC with or without stromal cell-derived factor 1 promotes functional repair in the injured rat spinal cord. <i>Biomaterials</i> , 2017 , 134, 13-21	15.6	43
200	Leveraging Colloidal Aggregation for Drug-Rich Nanoparticle Formulations. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1852-1860	5.6	14
199	Designing Peptide and Protein Modified Hydrogels: Selecting the Optimal Conjugation Strategy. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7416-7427	16.4	78
198	Engineering Cellular Microenvironments with Photo- and Enzymatically Responsive Hydrogels: Toward Biomimetic 3D Cell Culture Models. <i>Accounts of Chemical Research</i> , 2017 , 50, 703-713	24.3	102
197	A New Spin on Antibody-Drug Conjugates: Trastuzumab-Fulvestrant Colloidal Drug Aggregates Target HER2-Positive Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12195-12202	9.5	18
196	Internal Structure and Preferential Protein Binding of Colloidal Aggregates. <i>ACS Chemical Biology</i> , 2017 , 12, 282-290	4.9	19
195	Recent advances in regenerative medicine approaches for spinal cord injuries. <i>Current Opinion in Biomedical Engineering</i> , 2017 , 4, 40-49	4.4	4
194	Independently Tuning the Biochemical and Mechanical Properties of 3D Hyaluronan-Based Hydrogels with Oxime and Diels-Alder Chemistry to Culture Breast Cancer Spheroids. <i>Biomacromolecules</i> , 2017 , 18, 4373-4384	6.9	52
193	Human Pluripotent Stem Cell-Derived -Haploinsufficient Smooth Muscle Cells Recapitulate Features of Lymphangioliomyomatosis. <i>Cancer Research</i> , 2017 , 77, 5491-5502	10.1	22
192	Cyclosporine-immunosuppression does not affect survival of transplanted skin-derived precursor Schwann cells in the injured rat spinal cord. <i>Neuroscience Letters</i> , 2017 , 658, 67-72	3.3	3
191	Dynamic bioengineered hydrogels as scaffolds for advanced stem cell and organoid culture. <i>MRS Communications</i> , 2017 , 7, 472-486	2.7	18
190	A glial cell line-derived neurotrophic factor delivery system enhances nerve regeneration across acellular nerve allografts. <i>Acta Biomaterialia</i> , 2016 , 29, 62-70	10.8	51
189	Combination of a peptide-modified gellan gum hydrogel with cell therapy in a lumbar spinal cord injury animal model. <i>Biomaterials</i> , 2016 , 105, 38-51	15.6	53
188	Local Affinity Release. <i>ACS Nano</i> , 2016 , 10, 6433-6	16.7	22
187	Encapsulation-free controlled release: Electrostatic adsorption eliminates the need for protein encapsulation in PLGA nanoparticles. <i>Science Advances</i> , 2016 , 2, e1600519	14.3	91
186	Hyaluronic Acid-Based Hydrogels Enable Rod Photoreceptor Survival and Maturation In Vitro through Activation of the mTOR Pathway. <i>Advanced Functional Materials</i> , 2016 , 26, 1975-1985	15.6	24
185	Hydrogel for Simultaneous Tunable Growth Factor Delivery and Enhanced Viability of Encapsulated Cells in Vitro. <i>Biomacromolecules</i> , 2016 , 17, 476-84	6.9	42
184	Designer protein delivery: From natural to engineered affinity-controlled release systems. <i>Science</i> , 2016 , 351, aac4750	33.3	104

183	Stable Colloidal Drug Aggregates Catch and Release Active Enzymes. <i>ACS Chemical Biology</i> , 2016 , 11, 992-1000	4.9	23
182	Injectable hydrogel promotes early survival of induced pluripotent stem cell-derived oligodendrocytes and attenuates longterm teratoma formation in a spinal cord injury model. <i>Biomaterials</i> , 2016 , 83, 23-36	15.6	131
181	An engineered biocompatible drug delivery system enhances nerve regeneration after delayed repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 367-76	5.4	23
180	Local Delivery of Neurotrophin-3 and Anti-NogoA Promotes Repair After Spinal Cord Injury. <i>Tissue Engineering - Part A</i> , 2016 , 22, 733-41	3.9	34
179	Transparent Porous Polysaccharide Cryogels Provide Biochemically Defined, Biomimetic Matrices for Tunable 3D Cell Culture. <i>Chemistry of Materials</i> , 2016 , 28, 3762-3770	9.6	41
178	6-Bromo-7-hydroxy-3-methylcoumarin (mBhc) is an efficient multi-photon labile protecting group for thiol caging and three-dimensional chemical patterning. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 8289-300	3.9	20
177	Circumventing the blood-brain barrier: Local delivery of cyclosporin A stimulates stem cells in stroke-injured rat brain. <i>Journal of Controlled Release</i> , 2015 , 215, 1-11	11.7	57
176	Controlled release of bioactive PDGF-AA from a hydrogel/nanoparticle composite. <i>Acta Biomaterialia</i> , 2015 , 25, 35-42	10.8	25
175	Innovative use of the taxol binding peptide overcomes key challenges of stable and high drug loading in polymeric nanomicelles. <i>Chemical Communications</i> , 2015 , 51, 12000-3	5.8	7
174	A Hyaluronan-Based Injectable Hydrogel Improves the Survival and Integration of Stem Cell Progeny following Transplantation. <i>Stem Cell Reports</i> , 2015 , 4, 1031-45	8	149
173	Delivery strategies for treatment of age-related ocular diseases: From a biological understanding to biomaterial solutions. <i>Journal of Controlled Release</i> , 2015 , 219, 652-668	11.7	58
172	Assessing cognitive function following medial prefrontal stroke in the rat. <i>Behavioural Brain Research</i> , 2015 , 294, 102-10	3.4	22
171	Sustained delivery of bioactive neurotrophin-3 to the injured spinal cord. <i>Biomaterials Science</i> , 2015 , 3, 65-72	7.4	56
170	Mathematical model accurately predicts protein release from an affinity-based delivery system. <i>Journal of Controlled Release</i> , 2015 , 197, 69-77	11.7	52
169	Hybrid Crosslinked Methylcellulose Hydrogel: A Predictable and Tunable Platform for Local Drug Delivery. <i>Advanced Materials</i> , 2015 , 27, 5002-8	24	99
168	A novel polymeric drug delivery system for localized and sustained release of tacrolimus (FK506). <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1948-53	4.9	42
167	Tuning the Microenvironment: Click-Crosslinked Hyaluronic Acid-Based Hydrogels Provide a Platform for Studying Breast Cancer Cell Invasion. <i>Advanced Functional Materials</i> , 2015 , 25, 7163-7172	15.6	78
166	Three Dimensional Hydrogel Scaffolds and Applications in the CNS. <i>FASEB Journal</i> , 2015 , 29, 13.2	0.9	2

165	Tissue mimetics: engineered hydrogel matrices provide biomimetic environments for cell growth. <i>Tissue Engineering - Part A</i> , 2014 , 20, 895-8	3.9	22
164	ECM-Inspired Chemical Cues: Biomimetic Molecules and Techniques of Immobilization 2014 , 5-24		1
163	Affinity-based drug delivery systems for tissue repair and regeneration. <i>Biomacromolecules</i> , 2014 , 15, 3867-80	6.9	91
162	Generation of the epicardial lineage from human pluripotent stem cells. <i>Nature Biotechnology</i> , 2014 , 32, 1026-35	44.5	127
161	Colloidal drug formulations can explain "bell-shaped" concentration-response curves. <i>ACS Chemical Biology</i> , 2014 , 9, 777-84	4.9	87
160	PEG-Graft Density Controls Polymeric Nanoparticle Micelle Stability. <i>Chemistry of Materials</i> , 2014 , 26, 2847-2855	9.6	77
159	Cell and biomolecule delivery for tissue repair and regeneration in the central nervous system. <i>Journal of Controlled Release</i> , 2014 , 190, 219-27	11.7	79
158	Cyclosporin A enhances neural precursor cell survival in mice through a calcineurin-independent pathway. <i>DMM Disease Models and Mechanisms</i> , 2014 , 7, 953-61	4.1	26
157	Regenerative therapies for central nervous system diseases: a biomaterials approach. <i>Neuropsychopharmacology</i> , 2014 , 39, 169-88	8.7	184
156	Affinity-based release of chondroitinase ABC from a modified methylcellulose hydrogel. <i>Journal of Controlled Release</i> , 2013 , 171, 11-6	11.7	71
155	Targeting HER2+ breast cancer cells: lysosomal accumulation of anti-HER2 antibodies is influenced by antibody binding site and conjugation to polymeric nanoparticles. <i>Journal of Controlled Release</i> , 2013 , 172, 395-404	11.7	41
154	Click conjugated polymeric immuno-nanoparticles for targeted siRNA and antisense oligonucleotide delivery. <i>Biomaterials</i> , 2013 , 34, 8408-15	15.6	27
153	Characterization of hyaluronan-methylcellulose hydrogels for cell delivery to the injured spinal cord. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 1472-7	5.4	57
152	Modulation of bone marrow mesenchymal stem cell secretome by ECM-like hydrogels. <i>Biochimie</i> , 2013 , 95, 2314-9	4.6	46
151	Design considerations of polymeric nanoparticle micelles for chemotherapeutic delivery. <i>Current Opinion in Chemical Engineering</i> , 2013 , 2, 53-59	5.4	16
150	Bioengineered sequential growth factor delivery stimulates brain tissue regeneration after stroke. <i>Journal of Controlled Release</i> , 2013 , 172, 1-11	11.7	96
149	A hydrogel composite system for sustained epi-cortical delivery of Cyclosporin A to the brain for treatment of stroke. <i>Journal of Controlled Release</i> , 2013 , 166, 197-202	11.7	56
148	Hyaluronic acid click hydrogels emulate the extracellular matrix. <i>Langmuir</i> , 2013 , 29, 7393-400	4	96

147	Repair of the injured spinal cord by transplantation of neural stem cells in a hyaluronan-based hydrogel. <i>Biomaterials</i> , 2013 , 34, 3775-83	15.6	182
146	Double click: dual functionalized polymeric micelles with antibodies and peptides. <i>Bioconjugate Chemistry</i> , 2013 , 24, 105-13	6.3	33
145	Localized and sustained delivery of fibroblast growth factor-2 from a nanoparticle-hydrogel composite for treatment of spinal cord injury. <i>Cells Tissues Organs</i> , 2013 , 197, 55-63	2.1	50
144	Positron emission tomography imaging of fibrillar parenchymal and vascular amyloid- β in TgCRND8 mice. <i>ACS Chemical Neuroscience</i> , 2013 , 4, 613-23	5.7	19
143	Fibrin gels containing GDNF microspheres increase axonal regeneration after delayed peripheral nerve repair. <i>Regenerative Medicine</i> , 2013 , 8, 27-37	2.5	47
142	Functional motor recovery is improved due to local placement of GDNF microspheres after delayed nerve repair. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 1272-81	4.9	29
141	Core and Corona Modifications for the Design of Polymeric Micelle Drug-Delivery Systems. <i>Israel Journal of Chemistry</i> , 2013 , 53, n/a-n/a	3.4	1
140	In vitro sustained release of bioactive anti-NogoA, a molecule in clinical development for treatment of spinal cord injury. <i>International Journal of Pharmaceutics</i> , 2012 , 426, 284-290	6.5	31
139	Amphiphilic micelles of poly(2-methyl-2-carboxytrimethylene carbonate-co-D,L-lactide)-graft-poly(ethylene glycol) for anti-cancer drug delivery to solid tumours. <i>Biomaterials</i> , 2012 , 33, 2223-9	15.6	31
138	Hydrogel delivery of erythropoietin to the brain for endogenous stem cell stimulation after stroke injury. <i>Biomaterials</i> , 2012 , 33, 2681-92	15.6	106
137	The effects of intrathecal injection of a hyaluronan-based hydrogel on inflammation, scarring and neurobehavioural outcomes in a rat model of severe spinal cord injury associated with arachnoiditis. <i>Biomaterials</i> , 2012 , 33, 4555-64	15.6	65
136	The role of endothelial cells in the retinal stem and progenitor cell niche within a 3D engineered hydrogel matrix. <i>Biomaterials</i> , 2012 , 33, 5198-205	15.6	38
135	The effects of peptide modified gellan gum and olfactory ensheathing glia cells on neural stem/progenitor cell fate. <i>Biomaterials</i> , 2012 , 33, 6345-54	15.6	112
134	Polymeric micelle stability. <i>Nano Today</i> , 2012 , 7, 53-65	17.9	582
133	Creating permissive microenvironments for stem cell transplantation into the central nervous system. <i>Trends in Biotechnology</i> , 2012 , 30, 55-63	15.1	88
132	Polymers used to influence cell fate in 3D geometry: New trends. <i>Progress in Polymer Science</i> , 2012 , 37, 645-658	29.6	55
131	Targeting the amyloid- β antibody in the brain tissue of a mouse model of Alzheimer's disease. <i>Journal of Controlled Release</i> , 2012 , 159, 302-8	11.7	11
130	Enhanced neurotrophin-3 bioactivity and release from a nanoparticle-loaded composite hydrogel. <i>Journal of Controlled Release</i> , 2012 , 160, 666-75	11.7	76

129	Injectable hydrogels for central nervous system therapy. <i>Biomedical Materials (Bristol)</i> , 2012 , 7, 024101	3.5	164
128	A covalently modified hydrogel blend of hyaluronan-methyl cellulose with peptides and growth factors influences neural stem/progenitor cell fate. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19402		75
127	The adult retinal stem cell is a rare cell in the ciliary epithelium whose progeny can differentiate into photoreceptors. <i>Biology Open</i> , 2012 , 1, 237-46	2.2	54
126	Tunable growth factor delivery from injectable hydrogels for tissue engineering. <i>Journal of the American Chemical Society</i> , 2012 , 134, 882-5	16.4	149
125	GDNF released from microspheres enhances nerve regeneration after delayed repair. <i>Muscle and Nerve</i> , 2012 , 46, 122-4	3.4	30
124	Colloidal aggregation affects the efficacy of anticancer drugs in cell culture. <i>ACS Chemical Biology</i> , 2012 , 7, 1429-35	4.9	118
123	The effect of growth factors and soluble Nogo-66 receptor protein on transplanted neural stem/progenitor survival and axonal regeneration after complete transection of rat spinal cord. <i>Cell Transplantation</i> , 2012 , 21, 1177-97	4	32
122	Anti-amyloid- β -mediated positron emission tomography imaging in Alzheimer's disease mouse brains. <i>PLoS ONE</i> , 2012 , 7, e51958	3.7	11
121	Spatially controlled simultaneous patterning of multiple growth factors in three-dimensional hydrogels. <i>Nature Materials</i> , 2011 , 10, 799-806	27	399
120	Diels-Alder Click cross-linked hyaluronic acid hydrogels for tissue engineering. <i>Biomacromolecules</i> , 2011 , 12, 824-30	6.9	313
119	Stability of Self-Assembled Polymeric Micelles in Serum. <i>Macromolecules</i> , 2011 , 44, 6002-6008	5.5	231
118	Effects of dibutyryl cyclic-AMP on survival and neuronal differentiation of neural stem/progenitor cells transplanted into spinal cord injured rats. <i>PLoS ONE</i> , 2011 , 6, e21744	3.7	55
117	Transport of epidermal growth factor in the stroke-injured brain. <i>Journal of Controlled Release</i> , 2011 , 149, 225-35	11.7	19
116	Regenerative biomaterials that "click": simple, aqueous-based protocols for hydrogel synthesis, surface immobilization, and 3D patterning. <i>Bioconjugate Chemistry</i> , 2011 , 22, 2199-209	6.3	164
115	Chitosan implants in the rat spinal cord: biocompatibility and biodegradation. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 97, 395-404	5.4	62
114	Three-dimensional spatial patterning of proteins in hydrogels. <i>Biomacromolecules</i> , 2011 , 12, 3789-96	6.9	60
113	Endothelial cells guided by immobilized gradients of vascular endothelial growth factor on porous collagen scaffolds. <i>Acta Biomaterialia</i> , 2011 , 7, 3027-35	10.8	67
112	Controlled epi-cortical delivery of epidermal growth factor for the stimulation of endogenous neural stem cell proliferation in stroke-injured brain. <i>Biomaterials</i> , 2011 , 32, 5688-97	15.6	90

111	Differentiation of neural stem cells in three-dimensional growth factor-immobilized chitosan hydrogel scaffolds. <i>Biomaterials</i> , 2011 , 32, 57-64	15.6	168
110	Spinal cord blood flow and blood vessel permeability measured by dynamic computed tomography imaging in rats after localized delivery of fibroblast growth factor. <i>Journal of Neurotrauma</i> , 2010 , 27, 2041-53	5.4	26
109	Hydrogel/electrospun fiber composites influence neural stem/progenitor cell fate. <i>Soft Matter</i> , 2010 , 6, 2227	3.6	67
108	Biomaterials for Brain Tissue Engineering. <i>Australian Journal of Chemistry</i> , 2010 , 63, 1143	1.2	80
107	Self-Assembled Polymeric Nanoparticles of Organocatalytic Copolymerized d,l-Lactide and 2-Methyl 2-Carboxytrimethylene Carbonate. <i>Macromolecules</i> , 2010 , 43, 4943-4953	5.5	39
106	Experimental assessment of pro-lymphangiogenic growth factors in the treatment of post-surgical lymphedema following lymphadenectomy. <i>Breast Cancer Research</i> , 2010 , 12, R70	8.3	49
105	Biomaterials for neural-tissue engineering [Chitosan supports the survival, migration, and differentiation of adult-derived neural stem and progenitor cells. <i>Canadian Journal of Chemistry</i> , 2010 , 88, 277-287	0.9	37
104	Functional immobilization of interferon-gamma induces neuronal differentiation of neural stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 93, 625-33	5.4	36
103	Endogenous radial glial cells support regenerating axons after spinal cord transection. <i>NeuroReport</i> , 2010 , 21, 871-6	1.7	10
102	Chitosan channels containing spinal cord-derived stem/progenitor cells for repair of subacute spinal cord injury in the rat. <i>Neurosurgery</i> , 2010 , 67, 1733-44	3.2	51
101	Polymer Scaffolds for Biomaterials Applications. <i>Macromolecules</i> , 2010 , 43, 581-591	5.5	372
100	A hydrogel-based stem cell delivery system to treat retinal degenerative diseases. <i>Biomaterials</i> , 2010 , 31, 2555-64	15.6	172
99	The use of vascular endothelial growth factor functionalized agarose to guide pluripotent stem cell aggregates toward blood progenitor cells. <i>Biomaterials</i> , 2010 , 31, 8262-70	15.6	60
98	Poly(ethylene glycol) modification enhances penetration of fibroblast growth factor 2 to injured spinal cord tissue from an intrathecal delivery system. <i>Journal of Controlled Release</i> , 2010 , 144, 25-31	11.7	46
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