

Molly S Shoichet

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254
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127
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275
ext. papers

20,775
ext. citations

9.8
avg, IF

7.26
L-index

#	Paper	IF	Citations
254	A photolabile hydrogel for guided three-dimensional cell growth and migration. <i>Nature Materials</i> , 2004 , 3, 249-53	27	681
253	Polymeric micelle stability. <i>Nano Today</i> , 2012 , 7, 53-65	17.9	582
252	The effect of substrate stiffness on adult neural stem cell behavior. <i>Biomaterials</i> , 2009 , 30, 6867-78	15.6	499
251	Fast-gelling injectable blend of hyaluronan and methylcellulose for intrathecal, localized delivery to the injured spinal cord. <i>Biomaterials</i> , 2006 , 27, 2370-9	15.6	470
250	Controlling cell adhesion and degradation of chitosan films by N-acetylation. <i>Biomaterials</i> , 2005 , 26, 5872-86	15.6	468
249	Spatially controlled simultaneous patterning of multiple growth factors in three-dimensional hydrogels. <i>Nature Materials</i> , 2011 , 10, 799-806	27	399
248	Polymer Scaffolds for Biomaterials Applications. <i>Macromolecules</i> , 2010 , 43, 581-591	5.5	372
247	Engineering three-dimensional bone tissue in vitro using biodegradable scaffolds: investigating initial cell-seeding density and culture period. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 51, 376-82		357
246	Peripheral nerve regeneration through guidance tubes. <i>Neurological Research</i> , 2004 , 26, 151-60	2.7	334
245	Diels-Alder Click cross-linked hyaluronic acid hydrogels for tissue engineering. <i>Biomacromolecules</i> , 2011 , 12, 824-30	6.9	313
244	Stability of Self-Assembled Polymeric Micelles in Serum. <i>Macromolecules</i> , 2011 , 44, 6002-6008	5.5	231
243	Vascular endothelial growth factor immobilized in collagen scaffold promotes penetration and proliferation of endothelial cells. <i>Acta Biomaterialia</i> , 2008 , 4, 477-89	10.8	230
242	Chitin-based tubes for tissue engineering in the nervous system. <i>Biomaterials</i> , 2005 , 26, 4624-32	15.6	228
241	Stability of hydrogels used in cell encapsulation: An in vitro comparison of alginate and agarose. <i>Biotechnology and Bioengineering</i> , 1996 , 50, 374-81	4.9	219
240	Guided cell adhesion and outgrowth in peptide-modified channels for neural tissue engineering. <i>Biomaterials</i> , 2005 , 26, 1507-14	15.6	216
239	In vitro degradation of a novel poly(lactide-co-glycolide) 75/25 foam. <i>Biomaterials</i> , 1999 , 20, 1177-85	15.6	191
238	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

237	Immobilized concentration gradients of neurotrophic factors guide neurite outgrowth of primary neurons in macroporous scaffolds. <i>Tissue Engineering</i> , 2006 , 12, 267-78		189
236	Macroporous interconnected dextran scaffolds of controlled porosity for tissue-engineering applications. <i>Biomaterials</i> , 2005 , 26, 7436-46	15.6	186
235	Regenerative therapies for central nervous system diseases: a biomaterials approach. <i>Neuropsychopharmacology</i> , 2014 , 39, 169-88	8.7	184
234	Manufacture of poly(2-hydroxyethyl methacrylate-co-methyl methacrylate) hydrogel tubes for use as nerve guidance channels. <i>Biomaterials</i> , 2002 , 23, 3843-51	15.6	183
233	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
232	Immobilized concentration gradients of nerve growth factor guide neurite outgrowth. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 68, 235-43		177
231	A hydrogel-based stem cell delivery system to treat retinal degenerative diseases. <i>Biomaterials</i> , 2010 , 31, 2555-64	15.6	172
230	Bioengineered strategies for spinal cord repair. <i>Journal of Neurotrauma</i> , 2006 , 23, 496-507	5.4	172
229	Matrix inclusion within synthetic hydrogel guidance channels improves specific supraspinal and local axonal regeneration after complete spinal cord transection. <i>Biomaterials</i> , 2006 , 27, 519-33	15.6	170
228	Differentiation of neural stem cells in three-dimensional growth factor-immobilized chitosan hydrogel scaffolds. <i>Biomaterials</i> , 2011 , 32, 57-64	15.6	168
227	Injectable hydrogels for central nervous system therapy. <i>Biomedical Materials (Bristol)</i> , 2012 , 7, 024101	3.5	164
226	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
225	Doxorubicin-Conjugated Immuno-Nanoparticles for Intracellular Anticancer Drug Delivery. <i>Advanced Functional Materials</i> , 2009 , 19, 1689-1696	15.6	160
224	Fiber templating of poly(2-hydroxyethyl methacrylate) for neural tissue engineering. <i>Biomaterials</i> , 2003 , 24, 4265-72	15.6	155
223	An injectable drug delivery platform for sustained combination therapy. <i>Journal of Controlled Release</i> , 2009 , 138, 205-13	11.7	154
222	Synthetic hydrogel guidance channels facilitate regeneration of adult rat brainstem motor axons after complete spinal cord transection. <i>Journal of Neurotrauma</i> , 2004 , 21, 789-804	5.4	151
221	Delivering neuroactive molecules from biodegradable microspheres for application in central nervous system disorders. <i>Biomaterials</i> , 1999 , 20, 329-39	15.6	150
220	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

219	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
218	Growth factor enhancement of peripheral nerve regeneration through a novel synthetic hydrogel tube. <i>Journal of Neurosurgery</i> , 2003 , 99, 555-65	3.2	145
217	Three-dimensional Chemical Patterning of Transparent Hydrogels. <i>Chemistry of Materials</i> , 2008 , 20, 55-60.6	133	
216	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
215	Intrathecal delivery of a polymeric nanocomposite hydrogel after spinal cord injury. <i>Biomaterials</i> , 2010 , 31, 7631-9	15.6	129
214	Generation of the epicardial lineage from human pluripotent stem cells. <i>Nature Biotechnology</i> , 2014 , 32, 1026-35	44.5	127
213	Promoting neuron adhesion and growth. <i>Materials Today</i> , 2008 , 11, 36-43	21.8	123
212	Colloidal aggregation affects the efficacy of anticancer drugs in cell culture. <i>ACS Chemical Biology</i> , 2012 , 7, 1429-35	4.9	118
211	Peptide surface modification of methacrylamide chitosan for neural tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 82, 243-55	5.4	116
210	Synthesis of cell-adhesive dextran hydrogels and macroporous scaffolds. <i>Biomaterials</i> , 2006 , 27, 5277-85	15.6	116
209	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
208	Synthesis of enzyme-degradable, peptide-cross-linked dextran hydrogels. <i>Bioconjugate Chemistry</i> , 2007 , 18, 874-85	6.3	111
207	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
206	Patterned glass surfaces direct cell adhesion and process outgrowth of primary neurons of the central nervous system. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 42, 13-9		105
205	Designer protein delivery: From natural to engineered affinity-controlled release systems. <i>Science</i> , 2016 , 351, aac4750	33.3	104
204	Light-activated immobilization of biomolecules to agarose hydrogels for controlled cellular response. <i>Biomacromolecules</i> , 2004 , 5, 2315-23	6.9	103
203	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
202	Long-term in vivo biomechanical properties and biocompatibility of poly(2-hydroxyethyl methacrylate-co-methyl methacrylate) nerve conduits. <i>Biomaterials</i> , 2005 , 26, 1741-9	15.6	101

201	Immuno-polymeric nanoparticles by Diels-Alder chemistry. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6126-31	16.4	100
200	Hybrid Crosslinked Methylcellulose Hydrogel: A Predictable and Tunable Platform for Local Drug Delivery. <i>Advanced Materials</i> , 2015 , 27, 5002-8	24	99
199	Extramedullary chitosan channels promote survival of transplanted neural stem and progenitor cells and create a tissue bridge after complete spinal cord transection. <i>Tissue Engineering - Part A</i> , 2008 , 14, 649-65	3.9	98
198	Bioengineered sequential growth factor delivery stimulates brain tissue regeneration after stroke. <i>Journal of Controlled Release</i> , 2013 , 172, 1-11	11.7	96
197	Hyaluronic acid click hydrogels emulate the extracellular matrix. <i>Langmuir</i> , 2013 , 29, 7393-400	4	96
196	A new paradigm for local and sustained release of therapeutic molecules to the injured spinal cord for neuroprotection and tissue repair. <i>Tissue Engineering - Part A</i> , 2009 , 15, 595-604	3.9	93
195	Click chemistry functionalized polymeric nanoparticles target corneal epithelial cells through RGD-cell surface receptors. <i>Bioconjugate Chemistry</i> , 2009 , 20, 87-94	6.3	93
194	Biomaterials for cell transplantation. <i>Nature Reviews Materials</i> , 2018 , 3, 441-456	73.3	92
193	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
192	Affinity-based drug delivery systems for tissue repair and regeneration. <i>Biomacromolecules</i> , 2014 , 15, 3867-80	6.9	91
191	Combinatorial Therapies After Spinal Cord Injury: How Can Biomaterials Help?. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601130	10.1	90
190	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
189	Creating permissive microenvironments for stem cell transplantation into the central nervous system. <i>Trends in Biotechnology</i> , 2012 , 30, 55-63	15.1	88
188	Injectable intrathecal delivery system for localized administration of EGF and FGF-2 to the injured rat spinal cord. <i>Experimental Neurology</i> , 2005 , 194, 106-19	5.7	88
187	Colloidal drug formulations can explain "bell-shaped" concentration-response curves. <i>ACS Chemical Biology</i> , 2014 , 9, 777-84	4.9	87
186	Clip compression model is useful for thoracic spinal cord injuries: histologic and functional correlates. <i>Spine</i> , 2007 , 32, 2853-9	3.3	87
185	Diels-Alder Click-Cross-Linked Hydrogels with Increased Reactivity Enable 3D Cell Encapsulation. <i>Biomacromolecules</i> , 2018 , 19, 926-935	6.9	85
184	Endothelial cell guidance in 3D patterned scaffolds. <i>Advanced Materials</i> , 2010 , 22, 4831-5	24	84

183	Design of three-dimensional biomimetic scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 1321-31	5.4	81
182	Biomaterials for Brain Tissue Engineering. <i>Australian Journal of Chemistry</i> , 2010 , 63, 1143	1.2	80
181	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
180	Synthesis of Fluorocarbon/Vinyl Acetate Copolymers in Supercritical Carbon Dioxide: Insight into Bulk Properties. <i>Macromolecules</i> , 2002 , 35, 3569-3575	5.5	79
179	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
178	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
177	PEG-Graft Density Controls Polymeric Nanoparticle Micelle Stability. <i>Chemistry of Materials</i> , 2014 , 26, 2847-2855	9.6	77
176	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
175	Organic nanoscale drug carriers coupled with ligands for targeted drug delivery in cancer. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5485		76
174	The effect of immobilized platelet derived growth factor AA on neural stem/progenitor cell differentiation on cell-adhesive hydrogels. <i>Biomaterials</i> , 2008 , 29, 4676-83	15.6	76
173	Nerve guidance channels as drug delivery vehicles. <i>Biomaterials</i> , 2006 , 27, 2018-27	15.6	76
172	Chemically-bound nerve growth factor for neural tissue engineering applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2003 , 14, 383-94	3.5	76
171	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
170	Affinity-based release of chondroitinase ABC from a modified methylcellulose hydrogel. <i>Journal of Controlled Release</i> , 2013 , 171, 11-6	11.7	71
169	Incorporation of protein-eluting microspheres into biodegradable nerve guidance channels for controlled release. <i>Journal of Controlled Release</i> , 2006 , 110, 400-407	11.7	71
168	Hydrogel/electrospun fiber composites influence neural stem/progenitor cell fate. <i>Soft Matter</i> , 2010 , 6, 2227	3.6	67
167	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
166	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

165	Coil-reinforced hydrogel tubes promote nerve regeneration equivalent to that of nerve autografts. <i>Biomaterials</i> , 2006 , 27, 505-18	15.6	65
164	Cell delivery to the central nervous system. <i>Advanced Drug Delivery Reviews</i> , 2000 , 42, 81-102	18.5	65
163	Two-photon micropatterning of amines within an agarose hydrogel. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2716		63
162	Peripheral nerve regeneration through a synthetic hydrogel nerve tube. <i>Restorative Neurology and Neuroscience</i> , 2005 , 23, 19-29	2.8	63
161	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
160	Bioengineering neural stem/progenitor cell-coated tubes for spinal cord injury repair. <i>Cell Transplantation</i> , 2008 , 17, 245-54	4	62
159	Three-dimensional spatial patterning of proteins in hydrogels. <i>Biomacromolecules</i> , 2011 , 12, 3789-96	6.9	60
158	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
157	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
156	Novel Fluoro-Terpolymers for Coatings Applications. <i>Macromolecules</i> , 2005 , 38, 5560-5568	5.5	58
155	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
154	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
153	Accelerated release of a sparingly soluble drug from an injectable hyaluronan-methylcellulose hydrogel. <i>Journal of Controlled Release</i> , 2009 , 140, 218-23	11.7	57
152	Complete spinal cord transection treated by implantation of a reinforced synthetic hydrogel channel results in syringomyelia and caudal migration of the rostral stump. <i>Neurosurgery</i> , 2006 , 59, 183-92; discussion 183-92	3.2	57
151	Sustained delivery of bioactive neurotrophin-3 to the injured spinal cord. <i>Biomaterials Science</i> , 2015 , 3, 65-72	7.4	56
150	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
149	Convenient syntheses of carboxylic acid functionalized fluoropolymer surfaces. <i>Macromolecules</i> , 1991 , 24, 982-986	5.5	56
148	Polymers used to influence cell fate in 3D geometry: New trends. <i>Progress in Polymer Science</i> , 2012 , 37, 645-658	29.6	55

147	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
146	Anisotropic three-dimensional peptide channels guide neurite outgrowth within a biodegradable hydrogel matrix. <i>Biomedical Materials (Bristol)</i> , 2006 , 1, 162-9	3.5	55
145	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
144	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
143	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
142	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
141	Peptide surface modification of poly(tetrafluoroethylene-co-hexafluoropropylene) enhances its interaction with central nervous system neurons. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 42, 85-95		52
140	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
139	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
138	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
137	Synthesis and Solubility of Linear Poly(tetrafluoroethylene-co-vinyl acetate) in Dense CO ₂ : Experimental and Molecular Modeling Results. <i>Macromolecules</i> , 2004 , 37, 7799-7807	5.5	51
136	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
135	Poly(ethylene oxide)-grafted thermoplastic membranes for use as cellular hybrid bio-artificial organs in the central nervous system. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 563-72	4.9	50
134	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
133	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
132	Toward spinal cord injury repair strategies: peptide surface modification of expanded poly(tetrafluoroethylene) fibers for guided neurite outgrowth in vitro. <i>Journal of Craniofacial Surgery</i> , 2003 , 14, 308-16	1.2	49
131	Axonal guidance channels in peripheral nerve regeneration. <i>Operative Techniques in Orthopaedics</i> , 2004 , 14, 190-198	0.3	48
130	Fibrin gels containing GDNF microspheres increase axonal regeneration after delayed peripheral nerve repair. <i>Regenerative Medicine</i> , 2013 , 8, 27-37	2.5	47

129	Modulation of bone marrow mesenchymal stem cell secretome by ECM-like hydrogels. <i>Biochimie</i> , 2013 , 95, 2314-9	4.6	46
128	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
127	Delayed implantation of intramedullary chitosan channels containing nerve grafts promotes extensive axonal regeneration after spinal cord injury. <i>Neurosurgery</i> , 2008 , 63, 127-41; discussion 141-3	3.2	46
126	Novel intrathecal delivery system for treatment of spinal cord injury. <i>Experimental Neurology</i> , 2003 , 182, 300-9	5.7	46
125	Polymer science for macroencapsulation of cells for central nervous system transplantation. <i>Reactive & Functional Polymers</i> , 1995 , 25, 207-227		46
124	In vivo bone engineering in a rabbit femur. <i>Journal of Craniofacial Surgery</i> , 2003 , 14, 324-32	1.2	45
123	Colloidal aggregation: from screening nuisance to formulation nuance. <i>Nano Today</i> , 2018 , 19, 188-200	17.9	44
122	Creating porous tubes by centrifugal forces for soft tissue application. <i>Biomaterials</i> , 2001 , 22, 2661-9	15.6	44
121	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
120	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
119	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
118	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
117	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
116	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
115	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
114	Neural stem/progenitor cells differentiate in vitro to neurons by the combined action of dibutyl cAMP and interferon-gamma. <i>Stem Cells and Development</i> , 2009 , 18, 1423-32	4.4	39
113	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
112	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

111	Investigating the Properties of Novel Poly(2-hydroxyethyl methacrylate-co-methyl methacrylate) Hydrogel Hollow Fiber Membranes. <i>Chemistry of Materials</i> , 2001 , 13, 4087-4093	9.6	37
110	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
109	Thrombin mediated migration of osteogenic cells. <i>Bone</i> , 2005 , 37, 337-48	4.7	36
108	Surface Enrichment of Poly(trifluorovinyl ether)s in Polystyrene Blends. <i>Macromolecules</i> , 2000 , 33, 4926-4931	5.3	36
107	The use of immobilized neurotrophins to support neuron survival and guide nerve fiber growth in compartmentalized chambers. <i>Biomaterials</i> , 2010 , 31, 6987-99	15.6	35
106	Patterned poly(chlorotrifluoroethylene) guides primary nerve cell adhesion and neurite outgrowth. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 50, 465-74		35
105	Controlled release strategy designed for intravitreal protein delivery to the retina. <i>Journal of Controlled Release</i> , 2019 , 293, 10-20	11.7	35
104	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
103	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
102	Double click: dual functionalized polymeric micelles with antibodies and peptides. <i>Bioconjugate Chemistry</i> , 2013 , 24, 105-13	6.3	33
101	Rationally Designed 3D Hydrogels Model Invasive Lung Diseases Enabling High-Content Drug Screening. <i>Advanced Materials</i> , 2019 , 31, e1806214	24	32
100	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
99	Modular biodegradable biomaterials from surfactant and polyelectrolyte mixtures. <i>Biomacromolecules</i> , 2008 , 9, 166-74	6.9	32
98	Intrathecal drug delivery strategy is safe and efficacious for localized delivery to the spinal cord. <i>Progress in Brain Research</i> , 2007 , 161, 385-92	2.9	32
97	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
96	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
95	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
94	Miniaturized system of neurotrophin patterning for guided regeneration. <i>Journal of Neuroscience Methods</i> , 2008 , 171, 253-63	3	31

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