

Jennifer L West

List of Publications by Citations

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223
papers

32,471
citations

83
h-index

180
g-index

238
ext. papers

34,950
ext. citations

7.1
avg, IF

7.25
L-index

#	Paper	IF	Citations
223	Nanoshell-mediated near-infrared thermal therapy of tumors under magnetic resonance guidance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 13549-54	11.5	3196
222	Immunotargeted nanoshells for integrated cancer imaging and therapy. <i>Nano Letters</i> , 2005 , 5, 709-11	11.5	1549
221	Photo-thermal tumor ablation in mice using near infrared-absorbing nanoparticles. <i>Cancer Letters</i> , 2004 , 209, 171-6	9.9	1502
220	Photopolymerizable hydrogels for tissue engineering applications. <i>Biomaterials</i> , 2002 , 23, 4307-14	15.6	1275
219	Near-infrared resonant nanoshells for combined optical imaging and photothermal cancer therapy. <i>Nano Letters</i> , 2007 , 7, 1929-34	11.5	1123
218	The Differential Cytotoxicity of Water-Soluble Fullerenes. <i>Nano Letters</i> , 2004 , 4, 1881-1887	11.5	892
217	Nanoshell-enabled photonics-based imaging and therapy of cancer. <i>Technology in Cancer Research and Treatment</i> , 2004 , 3, 33-40	2.7	883
216	Functionalization density dependence of single-walled carbon nanotubes cytotoxicity in vitro. <i>Toxicology Letters</i> , 2006 , 161, 135-42	4.4	740
215	Engineered nanomaterials for biophotonics applications: improving sensing, imaging, and therapeutics. <i>Annual Review of Biomedical Engineering</i> , 2003 , 5, 285-92	12	729
214	Correlating nanoscale titania structure with toxicity: a cytotoxicity and inflammatory response study with human dermal fibroblasts and human lung epithelial cells. <i>Toxicological Sciences</i> , 2006 , 92, 174-85	4.4	688
213	A new era for cancer treatment: gold-nanoparticle-mediated thermal therapies. <i>Small</i> , 2011 , 7, 169-83	11	668
212	Smooth muscle cell growth in photopolymerized hydrogels with cell adhesive and proteolytically degradable domains: synthetic ECM analogs for tissue engineering. <i>Biomaterials</i> , 2001 , 22, 3045-51	15.6	602
211	Temperature-sensitive polymer-nanoshell composites for photothermally modulated drug delivery. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 51, 293-8		601
210	A whole blood immunoassay using gold nanoshells. <i>Analytical Chemistry</i> , 2003 , 75, 2377-81	7.8	595
209	Nano-C60 cytotoxicity is due to lipid peroxidation. <i>Biomaterials</i> , 2005 , 26, 7587-95	15.6	592
208	Polymeric Biomaterials with Degradation Sites for Proteases Involved in Cell Migration. <i>Macromolecules</i> , 1999 , 32, 241-244	5.5	521
207	Metal nanoshells. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 15-22	4.7	456

206	Photocrosslinkable polyvinyl alcohol hydrogels that can be modified with cell adhesion peptides for use in tissue engineering. <i>Biomaterials</i> , 2002 , 23, 4325-32	15.6	451
205	3D biofabrication strategies for tissue engineering and regenerative medicine. <i>Annual Review of Biomedical Engineering</i> , 2014 , 16, 247-76	12	429
204	Covalently immobilized gradients of bFGF on hydrogel scaffolds for directed cell migration. <i>Biomaterials</i> , 2005 , 26, 3227-34	15.6	402
203	Fabrication of 3D hepatic tissues by additive photopatterning of cellular hydrogels. <i>FASEB Journal</i> , 2007 , 21, 790-801	0.9	387
202	Tethered-TGF-beta increases extracellular matrix production of vascular smooth muscle cells. <i>Biomaterials</i> , 2001 , 22, 439-44	15.6	380
201	Controlling the surface enhanced Raman effect via the nanoshell geometry. <i>Applied Physics Letters</i> , 2003 , 82, 257-259	3.4	372
200	Three-Dimensional Biochemical and Biomechanical Patterning of Hydrogels for Guiding Cell Behavior. <i>Advanced Materials</i> , 2006 , 18, 2679-2684	24	369
199	Photolithographic patterning of polyethylene glycol hydrogels. <i>Biomaterials</i> , 2006 , 27, 2519-24	15.6	340
198	Three-dimensional micropatterning of bioactive hydrogels via two-photon laser scanning photolithography for guided 3D cell migration. <i>Biomaterials</i> , 2008 , 29, 2962-8	15.6	334
197	Gold nanoshell-localized photothermal ablation of prostate tumors in a clinical pilot device study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18590-18596	11.5	331
196	Biomimetic hydrogels with pro-angiogenic properties. <i>Biomaterials</i> , 2010 , 31, 3840-7	15.6	286
195	Applications of nanotechnology to biotechnology commentary. <i>Current Opinion in Biotechnology</i> , 2000 , 11, 215-7	11.4	283
194	Gold nanoshell bioconjugates for molecular imaging in living cells. <i>Optics Letters</i> , 2005 , 30, 1012-4	3	271
193	Independent Optical Control of Microfluidic Valves Formed from Optomechanically Responsive Nanocomposite Hydrogels. <i>Advanced Materials</i> , 2005 , 17, 1366-1368	24	266
192	Cell adhesion peptides alter smooth muscle cell adhesion, proliferation, migration, and matrix protein synthesis on modified surfaces and in polymer scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 60, 86-93		256
191	Synthetic materials in the study of cell response to substrate rigidity. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 2-20	4.7	234
190	PEGDA hydrogels with patterned elasticity: Novel tools for the study of cell response to substrate rigidity. <i>Biotechnology and Bioengineering</i> , 2010 , 105, 636-44	4.9	219
189	Immunonanoshells for targeted photothermal ablation of tumor cells. <i>International Journal of Nanomedicine</i> , 2006 , 1, 149-54	7.3	219

188	Cell migration through defined, synthetic ECM analogs. <i>FASEB Journal</i> , 2002 , 16, 751-3	0.9	214
187	Temperature-sensitive hydrogels with SiO ₂ -Au nanoshells for controlled drug delivery. <i>Journal of Controlled Release</i> , 2007 , 123, 219-27	11.7	201
186	Modification of surfaces with cell adhesion peptides alters extracellular matrix deposition. <i>Biomaterials</i> , 1999 , 20, 2281-6	15.6	201
185	Protease-activated quantum dot probes. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 334, 1317-21	3.4	194
184	Photopolymerized hydrogel materials for drug delivery applications. <i>Reactive & Functional Polymers</i> , 1995 , 25, 139-147		194
183	Vascularization of engineered tissues: approaches to promote angio-genesis in biomaterials. <i>Current Topics in Medicinal Chemistry</i> , 2008 , 8, 300-10	3	193
182	Inhibition of thrombosis and intimal thickening by in situ photopolymerization of thin hydrogel barriers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 5967-71	11.5	193
181	Nanoparticles for thermal cancer therapy. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 074001	2.1	182
180	Multilayer microfluidic PEGDA hydrogels. <i>Biomaterials</i> , 2010 , 31, 5491-7	15.6	176
179	Visible light photoinitiation of mesenchymal stem cell-laden bioresponsive hydrogels. <i>European Cells and Materials</i> , 2011 , 22, 43-55; discussion 55	4.3	157
178	Effects of nitric oxide releasing poly(vinyl alcohol) hydrogel dressings on dermal wound healing in diabetic mice. <i>Wound Repair and Regeneration</i> , 2002 , 10, 286-94	3.6	154
177	Three-dimensional biomimetic patterning in hydrogels to guide cellular organization. <i>Advanced Materials</i> , 2012 , 24, 2344-8	24	151
176	Micropatterning of poly(ethylene glycol) diacrylate hydrogels with biomolecules to regulate and guide endothelial morphogenesis. <i>Tissue Engineering - Part A</i> , 2009 , 15, 579-85	3.9	151
175	Nitric oxide-generating polymers reduce platelet adhesion and smooth muscle cell proliferation. <i>Biomaterials</i> , 2000 , 21, 2273-8	15.6	148
174	Application of INAA to the build-up and clearance of gold nanoshells in clinical studies in mice. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2007 , 271, 455-459	1.5	146
173	Physiologic pulsatile flow bioreactor conditioning of poly(ethylene glycol)-based tissue engineered vascular grafts. <i>Annals of Biomedical Engineering</i> , 2007 , 35, 190-200	4.7	145
172	Covalent immobilization of RGDS on hydrogel surfaces to direct cell alignment and migration. <i>Journal of Controlled Release</i> , 2005 , 109, 139-48	11.7	144
171	Covalently-immobilized vascular endothelial growth factor promotes endothelial cell tubulogenesis in poly(ethylene glycol) diacrylate hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 1763-79	3.5	142

170	Immunonanoshells for targeted photothermal ablation in medulloblastoma and glioma: an in vitro evaluation using human cell lines. <i>Journal of Neuro-Oncology</i> , 2008 , 86, 165-72	4.8	141
169	Covalently immobilized platelet-derived growth factor-BB promotes angiogenesis in biomimetic poly(ethylene glycol) hydrogels. <i>Acta Biomaterialia</i> , 2011 , 7, 133-43	10.8	138
168	Poly(ethylene glycol) hydrogel system supports preadipocyte viability, adhesion, and proliferation. <i>Tissue Engineering</i> , 2005 , 11, 1498-505		134
167	A synthetic matrix with independently tunable biochemistry and mechanical properties to study epithelial morphogenesis and EMT in a lung adenocarcinoma model. <i>Cancer Research</i> , 2012 , 72, 6013-23	10.1	132
166	The promotion of microvasculature formation in poly(ethylene glycol) diacrylate hydrogels by an immobilized VEGF-mimetic peptide. <i>Biomaterials</i> , 2011 , 32, 5782-9	15.6	131
165	Thermo-responsive systems for controlled drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2008 , 5, 1077-81	4.1	128
164	Near infrared laser-tissue welding using nanoshells as an exogenous absorber. <i>Lasers in Surgery and Medicine</i> , 2005 , 37, 123-9	3.6	123
163	Design and characterization of poly(ethylene glycol) photopolymerizable semi-interpenetrating networks for chondrogenesis of human mesenchymal stem cells. <i>Tissue Engineering</i> , 2007 , 13, 2549-60		119
162	Near-infrared-resonant gold/gold sulfide nanoparticles as a photothermal cancer therapeutic agent. <i>Small</i> , 2010 , 6, 745-52	11	117
161	Enhancing mechanical properties of tissue-engineered constructs via lysyl oxidase crosslinking activity. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 513-21		116
160	Cancer-Associated Fibroblasts Induce a Collagen Cross-link Switch in Tumor Stroma. <i>Molecular Cancer Research</i> , 2016 , 14, 287-95	6.6	114
159	Separation of the arterial wall from blood contact using hydrogel barriers reduces intimal thickening after balloon injury in the rat: the roles of medial and luminal factors in arterial healing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 13188-93	11.5	109
158	Nanoshell-mediated photothermal therapy improves survival in a murine glioma model. <i>Journal of Neuro-Oncology</i> , 2011 , 104, 55-63	4.8	106
157	Antibody-conjugated gold-gold sulfide nanoparticles as multifunctional agents for imaging and therapy of breast cancer. <i>International Journal of Nanomedicine</i> , 2010 , 5, 445-54	7.3	106
156	Flexural characterization of cell encapsulated PEGDA hydrogels with applications for tissue engineered heart valves. <i>Acta Biomaterialia</i> , 2011 , 7, 2467-76	10.8	103
155	Nitric oxide-releasing polyurethane-PEG copolymer containing the YIGSR peptide promotes endothelialization with decreased platelet adhesion. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 84, 108-16	3.5	103
154	Independent optically addressable nanoparticle-polymer optomechanical composites. <i>Applied Physics Letters</i> , 2002 , 80, 4609-4611	3.4	99
153	A bioresponsive hydrogel tuned to chondrogenesis of human mesenchymal stem cells. <i>FASEB Journal</i> , 2011 , 25, 1486-96	0.9	98

152	Optically tunable nanoparticle contrast agents for early cancer detection: model-based analysis of gold nanoshells. <i>Journal of Biomedical Optics</i> , 2005 , 10, 064035	3.5	98
151	Nitric oxide-producing polyurethanes. <i>Biomacromolecules</i> , 2005 , 6, 838-44	6.9	97
150	Local release of fibrinolytic agents for adhesion prevention. <i>Journal of Surgical Research</i> , 1995 , 59, 759-62.5		91
149	Poly(ethylene glycol) hydrogels conjugated with a collagenase-sensitive fluorogenic substrate to visualize collagenase activity during three-dimensional cell migration. <i>Biomaterials</i> , 2007 , 28, 3163-70	15.6	89
148	Three-dimensional photolithographic patterning of multiple bioactive ligands in poly(ethylene glycol) hydrogels. <i>Soft Matter</i> , 2010 , 6, 5056	3.6	88
147	Synthetic biomimetic hydrogels incorporated with ephrin-A1 for therapeutic angiogenesis. <i>Biomacromolecules</i> , 2007 , 8, 42-9	6.9	86
146	Val-ala-pro-gly, an elastin-derived non-integrin ligand: smooth muscle cell adhesion and specificity. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 67, 255-9		85
145	Effects of epidermal growth factor on fibroblast migration through biomimetic hydrogels. <i>Biotechnology Progress</i> , 2003 , 19, 1781-5	2.8	84
144	Tissue engineered small-diameter vascular grafts. <i>Clinics in Plastic Surgery</i> , 2003 , 30, 507-17	3	84
143	Gadolinium-conjugated gold nanoshells for multimodal diagnostic imaging and photothermal cancer therapy. <i>Small</i> , 2014 , 10, 556-65	11	83
142	In vivo small animal micro-CT using nanoparticle contrast agents. <i>Frontiers in Pharmacology</i> , 2015 , 6, 2565.6		83
141	Laser Scanning Lithography for Surface Micropatterning on Hydrogels. <i>Advanced Materials</i> , 2005 , 17, 2939-2942	24	83
140	Immobilization of Cell-Adhesive Laminin Peptides in Degradable PEGDA Hydrogels Influences Endothelial Cell Tubulogenesis. <i>BioResearch Open Access</i> , 2013 , 2, 241-9	2.4	82
139	The stabilization and targeting of surfactant-synthesized gold nanorods. <i>Nanotechnology</i> , 2009 , 20, 434005	9.4	82
138	An opto-mechanical nanoshell-polymer composite. <i>Applied Physics B: Lasers and Optics</i> , 2001 , 73, 379-381.9		81
137	Micron-scale spatially patterned, covalently immobilized vascular endothelial growth factor on hydrogels accelerates endothelial tubulogenesis and increases cellular angiogenic responses. <i>Tissue Engineering - Part A</i> , 2011 , 17, 221-9	3.9	80
136	Modification of polyurethaneurea with PEG and YIGSR peptide to enhance endothelialization without platelet adhesion. <i>Journal of Biomedical Materials Research Part B</i> , 2005 , 72, 131-9		79
135	Integration of Self-Assembled Microvascular Networks with Microfabricated PEG-Based Hydrogels. <i>Advanced Functional Materials</i> , 2012 , 22, 4511-4518	15.6	78

134	Integrating valve-inspired design features into poly(ethylene glycol) hydrogel scaffolds for heart valve tissue engineering. <i>Acta Biomaterialia</i> , 2015 , 14, 11-21	10.8	77
133	Anisotropic poly(ethylene glycol)/polycaprolactone hydrogel-fiber composites for heart valve tissue engineering. <i>Tissue Engineering - Part A</i> , 2014 , 20, 2634-45	3.9	75
132	Hydrogel-nanoparticle composites for optically modulated cancer therapeutic delivery. <i>Journal of Controlled Release</i> , 2014 , 178, 63-8	11.7	74
131	Fabrication of 3D Biomimetic Microfluidic Networks in Hydrogels. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2153-60	10.1	73
130	Development and optimization of a dual-photoinitiator, emulsion-based technique for rapid generation of cell-laden hydrogel microspheres. <i>Acta Biomaterialia</i> , 2011 , 7, 3267-76	10.8	68
129	Thermally responsive polymer-nanoparticle composites for biomedical applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2011 , 3, 307-17	9.2	68
128	Platelet adhesion on a bioresorbable poly(propylene fumarate-co-ethylene glycol) copolymer. <i>Biomaterials</i> , 1999 , 20, 683-90	15.6	68
127	Dual-energy micro-CT functional imaging of primary lung cancer in mice using gold and iodine nanoparticle contrast agents: a validation study. <i>PLoS ONE</i> , 2014 , 9, e88129	3.7	66
126	Modeling the tumor extracellular matrix: Tissue engineering tools repurposed towards new frontiers in cancer biology. <i>Journal of Biomechanics</i> , 2014 , 47, 1969-78	2.9	64
125	Tissue engineering in the cardiovascular system: progress toward a tissue engineered heart. <i>The Anatomical Record</i> , 2001 , 263, 367-71		63
124	Studying the influence of angiogenesis in in vitro cancer model systems. <i>Advanced Drug Delivery Reviews</i> , 2016 , 97, 250-9	18.5	62
123	Biomimetic hydrogels with immobilized ephrinA1 for therapeutic angiogenesis. <i>Biomacromolecules</i> , 2011 , 12, 2715-22	6.9	62
122	Dual-Energy CT Imaging of Tumor Liposome Delivery After Gold Nanoparticle-Augmented Radiation Therapy. <i>Theranostics</i> , 2018 , 8, 1782-1797	12.1	61
121	EphrinA I-targeted nanoshells for photothermal ablation of prostate cancer cells. <i>International Journal of Nanomedicine</i> , 2008 , 3, 351-8	7.3	61
120	Poly(ethylene glycol) Hydrogel Scaffolds Containing Cell-Adhesive and Protease-Sensitive Peptides Support Microvessel Formation by Endothelial Progenitor Cells. <i>Cellular and Molecular Bioengineering</i> , 2016 , 9, 38-54	3.9	59
119	Vascular-targeted photothermal therapy of an orthotopic murine glioma model. <i>Nanomedicine</i> , 2012 , 7, 1133-48	5.6	59
118	Comparison of covalently and physically cross-linked polyethylene glycol-based hydrogels for the prevention of postoperative adhesions in a rat model. <i>Biomaterials</i> , 1995 , 16, 1153-6	15.6	59
117	Proteolytically degradable hydrogels with a fluorogenic substrate for studies of cellular proteolytic activity and migration. <i>Biotechnology Progress</i> , 2005 , 21, 1736-41	2.8	58

116	Nanoshells for photothermal cancer therapy. <i>Methods in Molecular Biology</i> , 2010 , 624, 101-17	1.4	58
115	Integrin interactions with immobilized peptides in polyethylene glycol diacrylate hydrogels. <i>Tissue Engineering</i> , 2004 , 10, 1775-86		53
114	Electrospun Polyurethane and Hydrogel Composite Scaffolds as Biomechanical Mimics for Aortic Valve Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1546-1558	5.5	52
113	Hydrogel microsphere encapsulation of a cell-based gene therapy system increases cell survival of injected cells, transgene expression, and bone volume in a model of heterotopic ossification. <i>Tissue Engineering - Part A</i> , 2010 , 16, 3727-36	3.9	51
112	A 3D Poly(ethylene glycol)-based Tumor Angiogenesis Model to Study the Influence of Vascular Cells on Lung Tumor Cell Behavior. <i>Scientific Reports</i> , 2016 , 6, 32726	4.9	50
111	Hydrogel-Coated Near Infrared Absorbing Nanoshells as Light-Responsive Drug Delivery Vehicles. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 685-692	5.5	48
110	YC-1-mediated vascular protection through inhibition of smooth muscle cell proliferation and platelet function. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 291, 1014-21	3.4	48
109	Encoding Hydrogel Mechanics via Network Cross-Linking Structure. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 335-344	5.5	47
108	Laser-scanning lithography (LSL) for the soft lithographic patterning of cell-adhesive self-assembled monolayers. <i>Biotechnology and Bioengineering</i> , 2006 , 93, 1060-8	4.9	47
107	Development of a YIGSR-peptide-modified polyurethaneurea to enhance endothelialization. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004 , 15, 73-94	3.5	47
106	Angiogenesis-like activity of endothelial cells co-cultured with VEGF-producing smooth muscle cells. <i>Tissue Engineering</i> , 2006 , 12, 381-90		44
105	Localized delivery of nitric oxide from hydrogels inhibits neointima formation in a rat carotid balloon injury model. <i>Acta Biomaterialia</i> , 2005 , 1, 597-606	10.8	44
104	Rapid healing of femoral defects in rats with low dose sustained BMP2 expression from PEGDA hydrogel microspheres. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 1597-604	3.8	43
103	Nitric oxide-generating hydrogels inhibit neointima formation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005 , 16, 659-72	3.5	41
102	A comparative analysis of EGFR-targeting antibodies for gold nanoparticle CT imaging of lung cancer. <i>PLoS ONE</i> , 2018 , 13, e0206950	3.7	40
101	Fabrication and mechanical evaluation of anatomically-inspired quasilaminar hydrogel structures with layer-specific formulations. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 398-407	4.7	39
100	3-Dimensional spatially organized PEG-based hydrogels for an aortic valve co-culture model. <i>Biomaterials</i> , 2015 , 67, 354-64	15.6	38
99	Improved Angiogenesis in Response to Localized Delivery of Macrophage-Recruiting Molecules. <i>PLoS ONE</i> , 2015 , 10, e0131643	3.7	36

98	Cathepsin K-sensitive poly(ethylene glycol) hydrogels for degradation in response to bone resorption. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 98, 53-62	5.4	35
97	The Flk1-myr::mCherry mouse as a useful reporter to characterize multiple aspects of ocular blood vessel development and disease. <i>Developmental Dynamics</i> , 2009 , 238, 2318-26	2.9	35
96	Heparanase and platelet factor-4 induce smooth muscle cell proliferation and migration via bFGF release from the ECM. <i>Journal of Biochemistry</i> , 2002 , 131, 913-22	3.1	35
95	Molecular weight changes in polymer erosion. <i>Pharmaceutical Research</i> , 1992 , 9, 1279-83	4.5	35
94	Covalent immobilization of stem cell factor and stromal derived factor 1 for in vitro culture of hematopoietic progenitor cells. <i>Acta Biomaterialia</i> , 2013 , 9, 9258-69	10.8	34
93	Mitral valvular interstitial cell responses to substrate stiffness depend on age and anatomic region. <i>Acta Biomaterialia</i> , 2011 , 7, 75-82	10.8	34
92	Whole-blood immunoassay facilitated by gold nanoshell-conjugate antibodies. <i>Methods in Molecular Biology</i> , 2005 , 303, 101-11	1.4	34
91	Three-dimensional photolithographic micropatterning: a novel tool to probe the complexities of cell migration. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 817-27	3.7	33
90	Fabrication of Multifaceted Micropatterned Surfaces with Laser Scanning Lithography. <i>Advanced Functional Materials</i> , 2011 , 21, 2876-2888	15.6	33
89	Overexpression of lysyl oxidase to increase matrix crosslinking and improve tissue strength in dermal wound healing. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 1239-46	4.7	32
88	An investigation of the effects of ultrasound on degradable polyanhydride matrices. <i>Macromolecules</i> , 1992 , 25, 511-515	5.5	32
87	Endochondral bone formation from hydrogel carriers loaded with BMP2-transduced cells. <i>Annals of Biomedical Engineering</i> , 2007 , 35, 796-807	4.7	31
86	Stiffness of Protease Sensitive and Cell Adhesive PEG Hydrogels Promotes Neovascularization In Vivo. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 1387-1398	4.7	28
85	Fibulin-2 is a driver of malignant progression in lung adenocarcinoma. <i>PLoS ONE</i> , 2013 , 8, e67054	3.7	28
84	Hyaluronan Hydrogels for a Biomimetic Spongiosa Layer of Tissue Engineered Heart Valve Scaffolds. <i>Biomacromolecules</i> , 2016 , 17, 1766-75	6.9	28
83	Transendothelial migration enhances integrin-dependent human neutrophil chemokinesis. <i>Journal of Leukocyte Biology</i> , 2007 , 81, 686-95	6.5	27
82	Bioactive poly(ethylene glycol) hydrogels to recapitulate the HSC niche and facilitate HSC expansion in culture. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 870-81	4.9	27
81	Ascorbic acid promotes extracellular matrix deposition while preserving valve interstitial cell quiescence within 3D hydrogel scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1963-1973	4.4	25

80	Biomimetic Surface Patterning Promotes Mesenchymal Stem Cell Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21883-92	9.5	25
79	Application of hydrogels in heart valve tissue engineering. <i>Journal of Long-Term Effects of Medical Implants</i> , 2015 , 25, 105-34	0.2	25
78	Synthetic ECM: Bioactive Synthetic Hydrogels for 3D Tissue Engineering. <i>Bioconjugate Chemistry</i> , 2020 , 31, 2253-2271	6.3	25
77	An injectable method for noninvasive spine fusion. <i>Spine Journal</i> , 2011 , 11, 545-56	4	23
76	Rapid Heterotrophic Ossification with Cryopreserved Poly(ethylene glycol-) Microencapsulated BMP2-Expressing MSCs. <i>International Journal of Biomaterials</i> , 2012 , 2012, 861794	3.2	21
75	Novel heparanase-inhibiting antibody reduces neointima formation. <i>Journal of Biochemistry</i> , 2006 , 139, 339-45	3.1	21
74	Macrophages Influence Vessel Formation in 3D Bioactive Hydrogels. <i>Advanced Biology</i> , 2017 , 1, 16000213,5	13.5	20
73	Efficacy of adhesion barriers. Resorbable hydrogel, oxidized regenerated cellulose and hyaluronic acid. <i>Journal of reproductive medicine, The</i> , 1996 , 41, 149-54		20
72	Cell-based gene therapy for repair of critical size defects in the rat fibula. <i>Journal of Cellular Biochemistry</i> , 2011 , 112, 1563-71	4.7	19
71	Bioactive Poly(ethylene Glycol) Acrylate Hydrogels for Regenerative Engineering. <i>Regenerative Engineering and Translational Medicine</i> , 2019 , 5, 167-179	2.4	18
70	Bioactive hydrogel substrates: probing leukocyte receptor-ligand interactions in parallel plate flow chamber studies. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 1705-11	4.7	18
69	Hyaluronic acid based low viscosity hydrogel as a novel carrier for Convection Enhanced Delivery of CAR T cells. <i>Journal of Clinical Neuroscience</i> , 2018 , 56, 163-168	2.2	17
68	Poly(ethylene glycol)-lysine dendrimers for targeted delivery of nitric oxide. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006 , 17, 1159-1172	3.5	17
67	Harnessing Macrophages for Vascularization in Tissue Engineering. <i>Annals of Biomedical Engineering</i> , 2019 , 47, 354-365	4.7	17
66	M0 and M2 Macrophages Enhance Vascularization of Tissue Engineering Scaffolds. <i>Regenerative Engineering and Translational Medicine</i> , 2018 , 4, 51-61	2.4	16
65	Using Tools from Optogenetics to Create Light-Responsive Biomaterials: LOVTRAP-PEG Hydrogels for Dynamic Peptide Immobilization. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 1885-1894	4.7	15
64	Umbilical Cord Blood-Derived Mononuclear Cells Exhibit Pericyte-Like Phenotype and Support Network Formation of Endothelial Progenitor Cells In Vitro. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 2552-68	4.7	14
63	Recapitulation and Modulation of the Cellular Architecture of a User-Chosen Cell of Interest Using Cell-Derived, Biomimetic Patterning. <i>ACS Nano</i> , 2015 , 9, 6128-38	16.7	14

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