

Jennifer L West

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.

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	Reductionist Three-Dimensional Tumor Microenvironment Models in Synthetic Hydrogels.. <i>Cancers</i> , 2022 , 14,	6.6	1
222	Hydrogel biomaterials to support and guide vascularization. <i>Progress in Biomedical Engineering</i> , 2021 , 3, 012002	7.2	1
221	Induction of Neurogenesis and Angiogenesis in a Rat Hemisection Spinal Cord Injury Model With Combined Neural Stem Cell, Endothelial Progenitor Cell, and Biomimetic Hydrogel Matrix Therapy 2021 , 3, e0436		1
220	3D printing of high-strength, porous, elastomeric structures to promote tissue integration of implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 , 109, 54-63	5.4	12
219	Modulating Functionalized Poly(ethylene glycol) Diacrylate Hydrogel Mechanical Properties through Competitive Crosslinking Mechanics for Soft Tissue Applications. <i>Polymers</i> , 2020 , 12,	4.5	5
218	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
217	Biomaterials for Cardiovascular Tissue Engineering 2020 , 1389-1397		2
216	Synthetic ECM: Bioactive Synthetic Hydrogels for 3D Tissue Engineering. <i>Bioconjugate Chemistry</i> , 2020 , 31, 2253-2271	6.3	25
215	Chemically Orthogonal Protein Ligation Domains for Independent Control of Hydrogel Modification with Adhesive Ligands and Growth Factors. <i>Bioconjugate Chemistry</i> , 2020 , 31, 2504-2512	6.3	0
214	3D Culture Facilitates VEGF-Stimulated Endothelial Differentiation of Adipose-Derived Stem Cells. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 1034-1044	4.7	8
213	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
212	Cell-Compatible, Site-Specific Covalent Modification of Hydrogel Scaffolds Enables User-Defined Control over Cell-Material Interactions. <i>Biomacromolecules</i> , 2019 , 20, 2486-2493	6.9	10
211	Bioactive Poly(ethylene Glycol) Acrylate Hydrogels for Regenerative Engineering. <i>Regenerative Engineering and Translational Medicine</i> , 2019 , 5, 167-179	2.4	18
210	Histogenesis in Three-Dimensional Scaffolds 2019 , 661-674		2
209	Harnessing Macrophages for Vascularization in Tissue Engineering. <i>Annals of Biomedical Engineering</i> , 2019 , 47, 354-365	4.7	17
208	Adipose-Derived Stem Cells Can Contribute to Vascular Network Formation in Poly(ethylene Glycol) Hydrogel Scaffolds. <i>Regenerative Engineering and Translational Medicine</i> , 2019 , 5, 180-189	2.4	3
207	3D Co-Culture with Vascular Cells Supports Long-Term Hepatocyte Phenotype and Function In Vitro. <i>Regenerative Engineering and Translational Medicine</i> , 2018 , 4, 21-34	2.4	6

206	M0 and M2 Macrophages Enhance Vascularization of Tissue Engineering Scaffolds. <i>Regenerative Engineering and Translational Medicine</i> , 2018 , 4, 51-61	2.4	16
205	Lung Adenocarcinoma Cell Responses in a 3D in Vitro Tumor Angiogenesis Model Correlate with Metastatic Capacity. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 368-377	5.5	8
204	Dual-Energy CT Imaging of Tumor Liposome Delivery After Gold Nanoparticle-Augmented Radiation Therapy. <i>Theranostics</i> , 2018 , 8, 1782-1797	12.1	61
203	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
202	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
201	Dynamic Ligand Presentation in Biomaterials. <i>Bioconjugate Chemistry</i> , 2018 , 29, 2140-2149	6.3	10
200	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
199	Macrophages Influence Vessel Formation in 3D Bioactive Hydrogels. <i>Advanced Biology</i> , 2017 , 1, 16000213,5	13.5	20
198	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
197	Encapsulation of Adenovirus BMP2-Transduced Cells with PEGDA Hydrogels Allows Bone Formation in the Presence of Immune Response. <i>Tissue Engineering - Part A</i> , 2017 , 23, 177-184	3.9	8
196	Biofunctional Polymers 2017 , 175-180		
195	Adhesive Peptide Sequences Regulate Valve Interstitial Cell Adhesion, Phenotype and Extracellular Matrix Deposition. <i>Cellular and Molecular Bioengineering</i> , 2016 , 9, 479-495	3.9	13
194	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
193	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
192	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
191	Cancer-Associated Fibroblasts Induce a Collagen Cross-link Switch in Tumor Stroma. <i>Molecular Cancer Research</i> , 2016 , 14, 287-95	6.6	114
190	Biomimetic Surface Patterning Promotes Mesenchymal Stem Cell Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21883-92	9.5	25
189	Studying the influence of angiogenesis in in vitro cancer model systems. <i>Advanced Drug Delivery Reviews</i> , 2016 , 97, 250-9	18.5	62

188	Fabrication of 3D Biomimetic Microfluidic Networks in Hydrogels. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2153-60	10.1	73
187	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
186	Hyaluronan Hydrogels for a Biomimetic Spongiosa Layer of Tissue Engineered Heart Valve Scaffolds. <i>Biomacromolecules</i> , 2016 , 17, 1766-75	6.9	28
185	Biomimetic Microfluidic Networks: Fabrication of 3D Biomimetic Microfluidic Networks in Hydrogels (Adv. Healthcare Mater. 17/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 2152-2152	10.1	1
184	Optical coherence tomography guided microinjections in live mouse embryos: high-resolution targeted manipulation for mouse embryonic research. <i>Journal of Biomedical Optics</i> , 2015 , 20, 051020	3.5	12
183	Encoding Hydrogel Mechanics via Network Cross-Linking Structure. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 335-344	5.5	47
182	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
181	3-Dimensional spatially organized PEG-based hydrogels for an aortic valve co-culture model. <i>Biomaterials</i> , 2015 , 67, 354-64	15.6	38
180	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
179	CD45+ Cells Present Within Mesenchymal Stem Cell Populations Affect Network Formation of Blood-Derived Endothelial Outgrowth Cells. <i>BioResearch Open Access</i> , 2015 , 4, 75-88	2.4	9
178	Optically modulated cancer therapeutic delivery: past, present and future. <i>Therapeutic Delivery</i> , 2015 , 6, 545-58	3.8	2
177	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
176	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
175	In vivo small animal micro-CT using nanoparticle contrast agents. <i>Frontiers in Pharmacology</i> , 2015 , 6, 2565.6		83
174	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
173	Improved Angiogenesis in Response to Localized Delivery of Macrophage-Recruiting Molecules. <i>PLoS ONE</i> , 2015 , 10, e0131643	3.7	36
172	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
171	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

170	Hydrogel-nanoparticle composites for optically modulated cancer therapeutic delivery. <i>Journal of Controlled Release</i> , 2014 , 178, 63-8	11.7	74
169	Fabrication of multifaceted, micropatterned surfaces and image-guided patterning using laser scanning lithography. <i>Methods in Cell Biology</i> , 2014 , 119, 193-217	1.8	10
168	Gadolinium-conjugated gold nanoshells for multimodal diagnostic imaging and photothermal cancer therapy. <i>Small</i> , 2014 , 10, 556-65	11	83
167	3D biofabrication strategies for tissue engineering and regenerative medicine. <i>Annual Review of Biomedical Engineering</i> , 2014 , 16, 247-76	12	429
166	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
165	Micropatterning of poly(ethylene glycol) diacrylate hydrogels. <i>Methods in Cell Biology</i> , 2014 , 121, 105-191	1.8	13
164	Nitric oxide-releasing polymeric microspheres improve diabetes-related erectile dysfunction. <i>Journal of Sexual Medicine</i> , 2013 , 10, 1915-25	1.1	8
163	Histogenesis in Three-Dimensional Scaffolds 2013 , 951-963		
162	Fabrication and mechanical evaluation of anatomically-inspired quasilaminate hydrogel structures with layer-specific formulations. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 398-407	4.7	39
161	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
160	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
159	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
158	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
157	Improving Treatment of Stroke through Nanotechnology 2013 , 283-298		1
156	Fibulin-2 is a driver of malignant progression in lung adenocarcinoma. <i>PLoS ONE</i> , 2013 , 8, e67054	3.7	28
155	Multilayer microfluidic poly(ethylene glycol) diacrylate hydrogels. <i>Methods in Molecular Biology</i> , 2013 , 949, 387-401	1.4	1
154	Targeting Gold Nanoparticles for Cancer Diagnostics and Therapeutics. <i>ACS Symposium Series</i> , 2012 , 37-54	0.4	2
153	Vascular-targeted photothermal therapy of an orthotopic murine glioma model. <i>Nanomedicine</i> , 2012 , 7, 1133-48	5.6	59

152	Integration of Self-Assembled Microvascular Networks with Microfabricated PEG-Based Hydrogels. <i>Advanced Functional Materials</i> , 2012 , 22, 4511-4518	15.6	78
151	Three-dimensional biomimetic patterning in hydrogels to guide cellular organization. <i>Advanced Materials</i> , 2012 , 24, 2344-8	24	151
150	Patterning: Three-Dimensional Biomimetic Patterning in Hydrogels to Guide Cellular Organization (Adv. Mater. 17/2012). <i>Advanced Materials</i> , 2012 , 24, 2343-2343	24	
149	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
148	Biofunctional materials for directing vascular development. <i>Current Vascular Pharmacology</i> , 2012 , 10, 331-41	3.3	11
147	Rapid Heterotrophic Ossification with Cryopreserved Poly(ethylene glycol-) Microencapsulated BMP2-Expressing MSCs. <i>International Journal of Biomaterials</i> , 2012 , 2012, 861794	3.2	21
146	Nitric Oxide Delivery for Prevention of Restenosis. <i>Advances in Polymeric Biomaterials Series</i> , 2012 , 117-128		
145	An injectable method for noninvasive spine fusion. <i>Spine Journal</i> , 2011 , 11, 545-56	4	23
144	Nanoshell-mediated photothermal therapy improves survival in a murine glioma model. <i>Journal of Neuro-Oncology</i> , 2011 , 104, 55-63	4.8	106
143	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
142	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
141	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
140	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
139	Sustained Delivery of Nitric Oxide from Poly(ethylene glycol) Hydrogels Enhances Endothelialization in a Rat Carotid Balloon Injury Model. <i>Cardiovascular Engineering and Technology</i> , 2011 , 2, 113-123	2.2	12
138	A new era for cancer treatment: gold-nanoparticle-mediated thermal therapies. <i>Small</i> , 2011 , 7, 169-83	11	668
137	Thermally responsive polymer-nanoparticle composites for biomedical applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2011 , 3, 307-17	9.2	68
136	Fabrication of Multifaceted Micropatterned Surfaces with Laser Scanning Lithography. <i>Advanced Functional Materials</i> , 2011 , 21, 2876-2888	15.6	33
135	Micropatterning: Fabrication of Multifaceted Micropatterned Surfaces with Laser Scanning Lithography (Adv. Funct. Mater. 15/2011). <i>Advanced Functional Materials</i> , 2011 , 21, 2798-2798	15.6	1

134	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
133	Development of bioactive photocrosslinkable fibrous hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 98, 167-76	5.4	8
132	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
131	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
130	Microcontact printing for co-patterning cells and viruses for spatially controlled substrate-mediated gene delivery. <i>Soft Matter</i> , 2011 , 7, 4993	3.6	10
129	Biomimetic hydrogels with immobilized ephrinA1 for therapeutic angiogenesis. <i>Biomacromolecules</i> , 2011 , 12, 2715-22	6.9	62
128	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
127	A bioresponsive hydrogel tuned to chondrogenesis of human mesenchymal stem cells. <i>FASEB Journal</i> , 2011 , 25, 1486-96	0.9	98
126	Histogenesis in Three-dimensional Scaffolds 2011 , 675-691		
125	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
124	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
123	Three-dimensional photolithographic patterning of multiple bioactive ligands in poly(ethylene glycol) hydrogels. <i>Soft Matter</i> , 2010 , 6, 5056	3.6	88
122	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
121	The mouse cornea as a transplantation site for live imaging of engineered tissue constructs. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.prot5416	1.2	8
120	Synthetic materials in the study of cell response to substrate rigidity. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 2-20	4.7	234
119	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
118	Biomimetic hydrogels with pro-angiogenic properties. <i>Biomaterials</i> , 2010 , 31, 3840-7	15.6	286
117	Multilayer microfluidic PEGDA hydrogels. <i>Biomaterials</i> , 2010 , 31, 5491-7	15.6	176

116	Near-infrared-resonant gold/gold sulfide nanoparticles as a photothermal cancer therapeutic agent. <i>Small</i> , 2010 , 6, 745-52	11	117
115	Nanoshells for photothermal cancer therapy. <i>Methods in Molecular Biology</i> , 2010 , 624, 101-17	1.4	58
114	Nanoparticles for thermal cancer therapy. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 074001	2.1	182
113	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
112	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
111	The stabilization and targeting of surfactant-synthesized gold nanorods. <i>Nanotechnology</i> , 2009 , 20, 434005	3.5	82
110	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
109	Rapid Prototyping of Hydrogels to Guide Tissue Formation 2008 , 49-65		
108	Thermo-responsive systems for controlled drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2008 , 5, 1077-81	4.1	128
107	Vascularization of engineered tissues: approaches to promote angio-genesis in biomaterials. <i>Current Topics in Medicinal Chemistry</i> , 2008 , 8, 300-10	3	193
106	Histogenesis in Three-Dimensional Scaffolds 2008 , 686-703		4
105	EphrinA1-targeted nanoshells for photothermal ablation of prostate cancer cells. <i>International Journal of Nanomedicine</i> , 2008 , 351	7.3	2
104	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
103	Blood vessel matrix: a new alternative for abdominal wall reconstruction. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2008 , 12, 351-8	3.2	14
102	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
101	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
100	Nanotechnology for Tissue Engineering 2008 , 333-347		1
99	EphrinA I-targeted nanoshells for photothermal ablation of prostate cancer cells. <i>International Journal of Nanomedicine</i> , 2008 , 3, 351-8	7.3	61

98	Synthetic biomimetic hydrogels incorporated with ephrin-A1 for therapeutic angiogenesis. <i>Biomacromolecules</i> , 2007 , 8, 42-9	6.9	86
97	Near-infrared resonant nanoshells for combined optical imaging and photothermal cancer therapy. <i>Nano Letters</i> , 2007 , 7, 1929-34	11.5	1123
96	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
95	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
94	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
93	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
92	Endochondral bone formation from hydrogel carriers loaded with BMP2-transduced cells. <i>Annals of Biomedical Engineering</i> , 2007 , 35, 796-807	4.7	31
91	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
90	Transendothelial migration enhances integrin-dependent human neutrophil chemokinesis. <i>Journal of Leukocyte Biology</i> , 2007 , 81, 686-95	6.5	27
89	Fabrication of 3D hepatic tissues by additive photopatterning of cellular hydrogels. <i>FASEB Journal</i> , 2007 , 21, 790-801	0.9	387
88	Regulation of endothelial angiogenesis and vasculogenesis in synthetic poly(ethylene glycol) hydrogels modified with biomolecules. <i>FASEB Journal</i> , 2007 , 21, A748	0.9	3
87	Tissue Engineered Vascular Grafts 2007 , 26-1-26-13		
86	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
85	Three-Dimensional Biochemical and Biomechanical Patterning of Hydrogels for Guiding Cell Behavior. <i>Advanced Materials</i> , 2006 , 18, 2679-2684	24	369
84	Novel heparanase-inhibiting antibody reduces neointima formation. <i>Journal of Biochemistry</i> , 2006 , 139, 339-45	3.1	21
83	Protease-activated quantum dot probes 2006 , 6191, 330		3
82	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
81	Angiogenesis-like activity of endothelial cells co-cultured with VEGF-producing smooth muscle cells. <i>Tissue Engineering</i> , 2006 , 12, 381-90		44

80	Functionalization density dependence of single-walled carbon nanotubes cytotoxicity in vitro. <i>Toxicology Letters</i> , 2006 , 161, 135-42	4.4	74 ⁰
79	Diagnostic and Therapeutic Applications of Metal Nanoshells 2006 , 157-169		1
78	Photolithographic patterning of polyethylene glycol hydrogels. <i>Biomaterials</i> , 2006 , 27, 2519-24	15.6	34 ⁰
77	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
76	Remembering Dr. Richard E. Smalley, 1943-2005. <i>Biomedical Microdevices</i> , 2006 , 8, 7-7	3.7	
75	Metal nanoshells. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 15-22	4.7	45 ⁶
74	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
73	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
72	Immunonanoshells for targeted photothermal ablation of tumor cells. <i>International Journal of Nanomedicine</i> , 2006 , 1, 149-54	7.3	219
71	Promotion of endothelial tubulogenesis with EphrinA1 and EphB4 conjugated to synthetic hydrogels. <i>FASEB Journal</i> , 2006 , 20, A12	0.9	1
70	Laser tissue soldering with near-infrared absorbing nanoparticles 2005 , 5686, 261		1
69	Photothermal cancer therapy using intravenously injected near-infrared-absorbing nanoparticles 2005 , 5689, 149		2
68	Immunotargeted nanoshells for integrated cancer imaging and therapy. <i>Nano Letters</i> , 2005 , 5, 709-11	11.5	1549
67	Poly(ethylene glycol) hydrogel system supports preadipocyte viability, adhesion, and proliferation. <i>Tissue Engineering</i> , 2005 , 11, 1498-505		134
66	Nitric oxide-producing polyurethanes. <i>Biomacromolecules</i> , 2005 , 6, 838-44	6.9	97
65	Gold nanoshell bioconjugates for molecular imaging in living cells. <i>Optics Letters</i> , 2005 , 30, 1012-4	3	271
64	Protease-activated quantum dot probes. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 334, 1317-21	3.4	194
63	Covalently immobilized gradients of bFGF on hydrogel scaffolds for directed cell migration. <i>Biomaterials</i> , 2005 , 26, 3227-34	15.6	402

62	Nano-C60 cytotoxicity is due to lipid peroxidation. <i>Biomaterials</i> , 2005 , 26, 7587-95	15.6	592
61	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
60	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
59	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
58	Independent Optical Control of Microfluidic Valves Formed from Optomechanically Responsive Nanocomposite Hydrogels. <i>Advanced Materials</i> , 2005 , 17, 1366-1368	24	266
57	Laser Scanning Lithography for Surface Micropatterning on Hydrogels. <i>Advanced Materials</i> , 2005 , 17, 2939-2942	24	83
56	Diagnostic and Therapeutic Applications of Metal Nanoshells 2005 , 327-342		3
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