Jennifer L West

List of Publications by Year
in descending order

235 papers	37,145 citations	4146 87 h-index	2953 189 g-index
238 all docs	238 docs citations	238 times ranked	33704 citing authors

#	Article	IF	Citations
1	Adding Dynamic Biomolecule Signaling to Hydrogel Systems via Tethered Photolabile Cell-Adhesive Proteins. ACS Biomaterials Science and Engineering, 2022, 8, 208-217.	5.2	4
2	Reductionist Three-Dimensional Tumor Microenvironment Models in Synthetic Hydrogels. Cancers, 2022, 14, 1225.	3.7	7
3	<scp>3D</scp> printing of highâ€strength, porous, elastomeric structures to promote tissue integration of implants. Journal of Biomedical Materials Research - Part A, 2021, 109, 54-63.	4.0	30
4	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.		3
5	Hydrogel biomaterials to support and guide vascularization. Progress in Biomedical Engineering, 2021, 3, 012002.	4.9	8
6	3D Culture Facilitates VEGF-Stimulated Endothelial Differentiation of Adipose-Derived Stem Cells. Annals of Biomedical Engineering, 2020, 48, 1034-1044.	2.5	19
7	Using Tools from Optogenetics to Create Light-Responsive Biomaterials: LOVTRAP-PEG Hydrogels for Dynamic Peptide Immobilization. Annals of Biomedical Engineering, 2020, 48, 1885-1894.	2.5	24
8	Biomaterials for Cardiovascular Tissue Engineering. , 2020, , 1389-1397.		3
9	Synthetic ECM: Bioactive Synthetic Hydrogels for 3D Tissue Engineering. Bioconjugate Chemistry, 2020, 31, 2253-2271.	3.6	65
10	Chemically Orthogonal Protein Ligation Domains for Independent Control of Hydrogel Modification with Adhesive Ligands and Growth Factors. Bioconjugate Chemistry, 2020, 31, 2504-2512.	3.6	4
11	Modulating Functionalized Poly(ethylene glycol) Diacrylate Hydrogel Mechanical Properties through Competitive Crosslinking Mechanics for Soft Tissue Applications. Polymers, 2020, 12, 3000.	4.5	19
12	Bioactive Poly(ethylene Glycol) Acrylate Hydrogels for Regenerative Engineering. Regenerative Engineering and Translational Medicine, 2019, 5, 167-179.	2.9	36
13	Histogenesis in Three-Dimensional Scaffolds. , 2019, , 661-674.		3
14	Gold nanoshell-localized photothermal ablation of prostate tumors in a clinical pilot device study. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18590-18596.	7.1	588
15	Cell-Compatible, Site-Specific Covalent Modification of Hydrogel Scaffolds Enables User-Defined Control over Cellâ€“Material Interactions. Biomacromolecules, 2019, 20, 2486-2493.	5.4	15
16	Harnessing Macrophages for Vascularization in Tissue Engineering. Annals of Biomedical Engineering, 2019, 47, 354-365.	2.5	30
17	Adipose-Derived Stem Cells Can Contribute to Vascular Network Formation in Poly(ethylene Glycol) Hydrogel Scaffolds. Regenerative Engineering and Translational Medicine, 2019, 5, 180-189.	2.9	4
18	3D Co-Culture with Vascular Cells Supports Long-Term Hepatocyte Phenotype and Function In Vitro. Regenerative Engineering and Translational Medicine, 2018, 4, 21-34.	2.9	8

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19	M0 and M2 Macrophages Enhance Vascularization of Tissue Engineering Scaffolds. Regenerative Engineering and Translational Medicine, 2018, 4, 51-61.	2.9	25
20	Lung Adenocarcinoma Cell Responses in a 3D in Vitro Tumor Angiogenesis Model Correlate with Metastatic Capacity. ACS Biomaterials Science and Engineering, 2018, 4, 368-377.	5.2	11
21	A comparative analysis of EGFR-targeting antibodies for gold nanoparticle CT imaging of lung cancer. PLoS ONE, 2018, 13, e0206950.	2.5	50
22	Dynamic Ligand Presentation in Biomaterials. Bioconjugate Chemistry, 2018, 29, 2140-2149.	3.6	18
23	Dual-Energy CT Imaging of Tumor Liposome Delivery After Gold Nanoparticle-Augmented Radiation Therapy. Theranostics, 2018, 8, 1782-1797.	10.0	79
24	Hyaluronic acid based low viscosity hydrogel as a novel carrier for Convection Enhanced Delivery of CAR T cells. Journal of Clinical Neuroscience, 2018, 56, 163-168.	1.5	31
25	Ascorbic acid promotes extracellular matrix deposition while preserving valve interstitial cell quiescence within 3D hydrogel scaffolds. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1963-1973.	2.7	31
26	Macrophages Influence Vessel Formation in 3D Bioactive Hydrogels. Advanced Biology, 2017, 1, 1600021.	3.0	29
27	Stiffness of Protease Sensitive and Cell Adhesive PEG Hydrogels Promotes Neovascularization In Vivo. Annals of Biomedical Engineering, 2017, 45, 1387-1398.	2.5	35
28	Encapsulation of Adenovirus BMP2-Transduced Cells with PEGDA Hydrogels Allows Bone Formation in the Presence of Immune Response. Tissue Engineering - Part A, 2017, 23, 177-184.	3.1	8
29	Biofunctional Polymers. , 2017, , 175-180.		0
30	Fabrication of 3D Biomimetic Microfluidic Networks in Hydrogels. Advanced Healthcare Materials, 2016, 5, 2153-2160.	7.6	101
31	Bioactive poly(ethylene glycol) hydrogels to recapitulate the HSC niche and facilitate HSC expansion in culture. Biotechnology and Bioengineering, 2016, 113, 870-881.	3.3	36
32	Hyaluronan Hydrogels for a Biomimetic Spongiosa Layer of Tissue Engineered Heart Valve Scaffolds. Biomacromolecules, 2016, 17, 1766-1775.	5.4	37
33	Biomimetic Microfluidic Networks: Fabrication of 3D Biomimetic Microfluidic Networks in Hydrogels (Adv. Healthcare Mater. 17/2016). Advanced Healthcare Materials, 2016, 5, 2152-2152.	7.6	1
34	Adhesive Peptide Sequences Regulate Valve Interstitial Cell Adhesion, Phenotype and Extracellular Matrix Deposition. Cellular and Molecular Bioengineering, 2016, 9, 479-495.	2.1	16
35	Electrospun Polyurethane and Hydrogel Composite Scaffolds as Biomechanical Mimics for Aortic Valve Tissue Engineering. ACS Biomaterials Science and Engineering, 2016, 2, 1546-1558.	5.2	67
36	A 3D Poly(ethylene glycol)-based Tumor Angiogenesis Model to Study the Influence of Vascular Cells on Lung Tumor Cell Behavior. Scientific Reports, 2016, 6, 32726.	3.3	65

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37	Poly(Ethylene Glycol) Hydrogel Scaffolds Containing Cell-Adhesive and Protease-Sensitive Peptides Support Microvessel Formation by Endothelial Progenitor Cells. Cellular and Molecular Bioengineering, 2016, 9, 38-54.	2.1	67
38	Cancer-Associated Fibroblasts Induce a Collagen Cross-link Switch in Tumor Stroma. Molecular Cancer Research, 2016, 14, 287-295.	3.4	150
39	Biomimetic Surface Patterning Promotes Mesenchymal Stem Cell Differentiation. ACS Applied Materials & Interfaces, 2016, 8, 21883-21892.	8.0	34
40	Studying the influence of angiogenesis in in vitro cancer model systems. Advanced Drug Delivery Reviews, 2016, 97, 250-259.	13.7	72
41	Application of Hydrogels in Heart Valve Tissue Engineering. Journal of Long-Term Effects of Medical Implants, 2015, 25, 105-134.	0.7	32
42	In vivo small animal micro-CT using nanoparticle contrast agents. Frontiers in Pharmacology, 2015, 6, 256.	3.5	122
43	Recapitulation and Modulation of the Cellular Architecture of a User-Chosen Cell of Interest Using Cell-Derived, Biomimetic Patterning. ACS Nano, 2015, 9, 6128-6138.	14.6	20
44	Optical coherence tomography guided microinjections in live mouse embryos: high-resolution targeted manipulation for mouse embryonic research. Journal of Biomedical Optics, 2015, 20, 1.	2.6	20
45	Encoding Hydrogel Mechanics via Network Cross-Linking Structure. ACS Biomaterials Science and Engineering, 2015, 1, 335-344.	5.2	57
46	Hydrogel-Coated Near Infrared Absorbing Nanoshells as Light-Responsive Drug Delivery Vehicles. ACS Biomaterials Science and Engineering, 2015, 1, 685-692.	5.2	55
47	3-Dimensional spatially organized PEG-based hydrogels for an aortic valve co-culture model. Biomaterials, 2015, 67, 354-364.	11.4	43
48	Umbilical Cord Blood-Derived Mononuclear Cells Exhibit Pericyte-Like Phenotype and Support Network Formation of Endothelial Progenitor Cells In Vitro. Annals of Biomedical Engineering, 2015, 43, 2552-2568.	2.5	16
49	CD45+ Cells Present Within Mesenchymal Stem Cell Populations Affect Network Formation of Blood-Derived Endothelial Outgrowth Cells. BioResearch Open Access, 2015, 4, 75-88.	2.6	11
50	Optically modulated cancer therapeutic delivery: past, present and future. Therapeutic Delivery, 2015, 6, 545-558.	2.2	2
51	Integrating valve-inspired design features into poly(ethylene glycol) hydrogel scaffolds for heart valve tissue engineering. Acta Biomaterialia, 2015, 14, 11-21.	8.3	95
52	Improved Angiogenesis in Response to Localized Delivery of Macrophage-Recruiting Molecules. PLoS ONE, 2015, 10, e0131643.	2.5	43
53	Dual-Energy Micro-CT Functional Imaging of Primary Lung Cancer in Mice Using Gold and Iodine Nanoparticle Contrast Agents: A Validation Study. PLoS ONE, 2014, 9, e88129.	2.5	84
54	Mouse embryo manipulations with OCT guidance. Proceedings of SPIE, 2014, , .	0.8	0

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55	Micropatterning of Poly(ethylene glycol) Diacrylate Hydrogels. Methods in Cell Biology, 2014, 121, 105-119.	1.1	18
56	Modeling the tumor extracellular matrix: Tissue engineering tools repurposed towards new frontiers in cancer biology. Journal of Biomechanics, 2014, 47, 1969-1978.	2.1	76
57	Anisotropic Poly(Ethylene Glycol)/Polycaprolactone Hydrogelâ€“Fiber Composites for Heart Valve Tissue Engineering. Tissue Engineering - Part A, 2014, 20, 2634-2645.	3.1	89
58	Hydrogel-nanoparticle composites for optically modulated cancer therapeutic delivery. Journal of Controlled Release, 2014, 178, 63-68.	9.9	81
59	Fabrication of Multifaceted, Micropatterned Surfaces and Image-Guided Patterning Using Laser Scanning Lithography. Methods in Cell Biology, 2014, 119, 193-217.	1.1	11
60	Gadoliniumâ€Conjugated Gold Nanoshells for Multimodal Diagnostic Imaging and Photothermal Cancer Therapy. Small, 2014, 10, 556-565.	10.0	90
61	3D Biofabrication Strategies for Tissue Engineering and Regenerative Medicine. Annual Review of Biomedical Engineering, 2014, 16, 247-276.	12.3	522
62	Nitric Oxideâ€Releasing Polymeric Microspheres Improve Diabetesâ€Related Erectile Dysfunction. Journal of Sexual Medicine, 2013, 10, 1915-1925.	0.6	10
63	Histogenesis in Three-Dimensional Scaffolds. , 2013, , 951-963.		0
64	Fabrication and Mechanical Evaluation of Anatomically-Inspired Quasilaminate Hydrogel Structures with Layer-Specific Formulations. Annals of Biomedical Engineering, 2013, 41, 398-407.	2.5	48
65	Covalent immobilization of stem cell factor and stromal derived factor 1Î± for in vitro culture of hematopoietic progenitor cells. Acta Biomaterialia, 2013, 9, 9258-9269.	8.3	43
66	Three-dimensional photolithographic micropatterning: a novel tool to probe the complexities of cell migration. Integrative Biology (United Kingdom), 2013, 5, 817.	1.3	35
67	OCT guided microinjections for mouse embryonic research. Proceedings of SPIE, 2013, , .	0.8	0
68	Immobilization of Cell-Adhesive Laminin Peptides in Degradable PEGDA Hydrogels Influences Endothelial Cell Tubulogenesis. BioResearch Open Access, 2013, 2, 241-249.	2.6	105
69	Rapid healing of femoral defects in rats with low dose sustained BMP2 expression from PEGDA hydrogel microspheres. Journal of Orthopaedic Research, 2013, 31, 1597-1604.	2.3	54
70	Fibulin-2 Is a Driver of Malignant Progression in Lung Adenocarcinoma. PLoS ONE, 2013, 8, e67054.	2.5	42
71	Multilayer Microfluidic Poly(Ethylene Glycol) Diacrylate Hydrogels. Methods in Molecular Biology, 2013, 949, 387-401.	0.9	1
72	A Synthetic Matrix with Independently Tunable Biochemistry and Mechanical Properties to Study Epithelial Morphogenesis and EMT in a Lung Adenocarcinoma Model. Cancer Research, 2012, 72, 6013-6023.	0.9	155

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73	Biofunctional Materials for Directing Vascular Development. Current Vascular Pharmacology, 2012, 10, 331-341.	1.7	14
74	Rapid Heterotrophic Ossification with Cryopreserved Poly(ethylene glycol-) Microencapsulated BMP2-Expressing MSCs. International Journal of Biomaterials, 2012, 2012, 1-11.	2.4	26
75	Targeting Gold Nanoparticles for Cancer Diagnostics and Therapeutics. ACS Symposium Series, 2012, , 37-54.	0.5	3
76	Vascular-targeted photothermal therapy of an orthotopic murine glioma model. Nanomedicine, 2012, 7, 1133-1148.	3.3	66
77	Integration of Selfâ€Assembled Microvascular Networks with Microfabricated PEGâ€Based Hydrogels. Advanced Functional Materials, 2012, 22, 4511-4518.	14.9	83
78	Threeâ€Dimensional Biomimetic Patterning in Hydrogels to Guide Cellular Organization. Advanced Materials, 2012, 24, 2344-2348.	21.0	169
79	Patterning: Three-Dimensional Biomimetic Patterning in Hydrogels to Guide Cellular Organization (Adv. Mater. 17/2012). Advanced Materials, 2012, 24, 2343-2343.	21.0	0
80	Nitric Oxide Delivery for Prevention of Restenosis. Advances in Polymeric Biomaterials Series, 2012, , 117-128.	0.0	0
81	Micron-Scale Spatially Patterned, Covalently Immobilized Vascular Endothelial Growth Factor on Hydrogels Accelerates Endothelial Tubulogenesis and Increases Cellular Angiogenic Responses. Tissue Engineering - Part A, 2011, 17, 221-229.	3.1	91
82	Microcontact printing for co-patterning cells and viruses for spatially controlled substrate-mediated gene delivery. Soft Matter, 2011, 7, 4993.	2.7	10
83	Customized cell microenvironments. Nature Materials, 2011, 10, 727-729.	27.5	38
84	Biomimetic Hydrogels with Immobilized EphrinA1 for Therapeutic Angiogenesis. Biomacromolecules, 2011, 12, 2715-2722.	5.4	67
85	An injectable method for noninvasive spine fusion. Spine Journal, 2011, 11, 545-556.	1.3	26
86	Nanoshell-mediated photothermal therapy improves survival in a murine glioma model. Journal of Neuro-Oncology, 2011, 104, 55-63.	2.9	127
87	Covalently immobilized platelet-derived growth factor-BB promotes angiogenesis in biomimetic poly(ethylene glycol) hydrogels. Acta Biomaterialia, 2011, 7, 133-143.	8.3	159
88	Flexural characterization of cell encapsulated PEGDA hydrogels with applications for tissue engineered heart valves. Acta Biomaterialia, 2011, 7, 2467-2476.	8.3	131
89	Development and optimization of a dual-photoinitiator, emulsion-based technique for rapid generation of cell-laden hydrogel microspheres. Acta Biomaterialia, 2011, 7, 3267-3276.	8.3	92
90	The promotion of microvasculature formation in poly(ethylene glycol) diacrylate hydrogels by an immobilized VEGF-mimetic peptide. Biomaterials, 2011, 32, 5782-5789.	11.4	151

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91	Sustained Delivery of Nitric Oxide from Poly(ethylene glycol) Hydrogels Enhances Endothelialization in a Rat Carotid Balloon Injury Model. Cardiovascular Engineering and Technology, 2011, 2, 113-123.	1.6	14
92	A New Era for Cancer Treatment: Goldâ€Nanoparticleâ€Mediated Thermal Therapies. Small, 2011, 7, 169-183.	10.0	773
93	Thermally responsive polymerâ€“nanoparticle composites for biomedical applications. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2011, 3, 307-317.	6.1	79
94	Fabrication of Multifaceted Micropatterned Surfaces with Laser Scanning Lithography. Advanced Functional Materials, 2011, 21, 2876-2888.	14.9	37
95	Micropatterning: Fabrication of Multifaceted Micropatterned Surfaces with Laser Scanning Lithography (Adv. Funct. Mater. 15/2011). Advanced Functional Materials, 2011, 21, 2798-2798.	14.9	1
96	Cathepsin Kâ€sensitive poly(ethylene glycol) hydrogels for degradation in response to bone resorption. Journal of Biomedical Materials Research - Part A, 2011, 98A, 53-62.	4.0	39
97	Development of bioactive photocrosslinkable fibrous hydrogels. Journal of Biomedical Materials Research - Part A, 2011, 98A, 167-176.	4.0	10
98	Cell-based gene therapy for repair of critical size defects in the rat fibula. Journal of Cellular Biochemistry, 2011, 112, 1563-1571.	2.6	20
99	Mitral valvular interstitial cell responses to substrate stiffness depend on age and anatomic region. Acta Biomaterialia, 2011, 7, 75-82.	8.3	36
100	A bioresponsive hydrogel tuned to chondrogenesis of human mesenchymal stem cells. FASEB Journal, 2011, 25, 1486-1496.	0.5	110
101	Histogenesis in Three-dimensional Scaffolds. , 2011, , 675-691.		1
102	Visible light photoinitiation of mesenchymal stem cell-laden bioresponsive hydrogels. , 2011, 22, 43-55.		182
103	The Mouse Cornea as a Transplantation Site for Live Imaging of Engineered Tissue Constructs. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5416.	0.3	10
104	Photothermal Therapy of Glioma in a Mouse Model With Near-Infrared Excited Nanoshells. , 2010, , .		0
105	Multifaceted Nano- and Micropatterned Surfaces for Cell Adhesion Manipulation. , 2010, , .		0
106	Synthetic Materials in the Study of Cell Response to Substrate Rigidity. Annals of Biomedical Engineering, 2010, 38, 2-20.	2.5	268
107	PEGDA hydrogels with patterned elasticity: Novel tools for the study of cell response to substrate rigidity. Biotechnology and Bioengineering, 2010, 105, 636-644.	3.3	243
108	Biomimetic hydrogels with pro-angiogenic properties. Biomaterials, 2010, 31, 3840-3847.	11.4	324

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109	Multilayer microfluidic PEGDA hydrogels. Biomaterials, 2010, 31, 5491-5497.	11.4	204
110	Nearâ€Infraredâ€Resonant Gold/Gold Sulfide Nanoparticles as a Photothermal Cancer Therapeutic Agent. Small, 2010, 6, 745-752.	10.0	130
111	Antibody-conjugated gold-gold sulfide nanoparticles as multifunctional agents for imaging and therapy of breast cancer. International Journal of Nanomedicine, 2010, 5, 445.	6.7	122
112	Cancer Imaging and Thermal Therapy Facilitated by Nanoparticles and Multiphoton Microscopy. , 2010, , .		0
113	Three-dimensional photolithographic patterning of multiple bioactive ligands in poly(ethylene glycol) hydrogels. Soft Matter, 2010, 6, 5056.	2.7	94
114	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. Tissue Engineering - Part A, 2010, 16, 3727-3736.	3.1	62
115	Nanoshells for Photothermal Cancer Therapy. Methods in Molecular Biology, 2010, 624, 101-117.	0.9	66
116	Nanoparticles for Thermal Cancer Therapy. Journal of Biomechanical Engineering, 2009, 131, 074001.	1.3	229
117	The Flk1â€myr::mCherry mouse as a useful reporter to characterize multiple aspects of ocular blood vessel development and disease. Developmental Dynamics, 2009, 238, 2318-2326.	1.8	36
118	Covalently-Immobilized Vascular Endothelial Growth Factor Promotes Endothelial Cell Tubulogenesis in Poly(ethylene glycol) Diacrylate Hydrogels. Journal of Biomaterials Science, Polymer Edition, 2009, 20, 1763-1779.	3.5	150
119	The stabilization and targeting of surfactant-synthesized gold nanorods. Nanotechnology, 2009, 20, 434005.	2.6	92
120	Micropatterning of Poly(Ethylene Glycol) Diacrylate Hydrogels with Biomolecules to Regulate and Guide Endothelial Morphogenesis. Tissue Engineering - Part A, 2009, 15, 579-585.	3.1	163
121	Immunonanoshells for targeted photothermal ablation in medulloblastoma and glioma: an inÂvitro evaluation using human cell lines. Journal of Neuro-Oncology, 2008, 86, 165-172.	2.9	167
122	Blood vessel matrix: a new alternative for abdominal wall reconstruction. Hernia: the Journal of Hernias and Abdominal Wall Surgery, 2008, 12, 351-358.	2.0	16
123	Nitric oxide-releasing polyurethaneâ€"PEG copolymer containing the YIGSR peptide promotes endothelialization with decreased platelet adhesion. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 108-116.	3.4	117
124	Three-dimensional micropatterning of bioactive hydrogels via two-photon laser scanning photolithography for guided 3D cell migration. Biomaterials, 2008, 29, 2962-2968.	11.4	369
125	Rapid Prototyping of Hydrogels to Guide Tissue Formation. , 2008, , 49-65.		0
126	Thermo-responsive systems for controlled drug delivery. Expert Opinion on Drug Delivery, 2008, 5, 1077-1091.	5.0	143

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127	Vascularization of Engineered Tissues: Approaches to Promote Angiogenesis in Biomaterials. Current Topics in Medicinal Chemistry, 2008, 8, 300-310.	2.1	213
128	Histogenesis in Three-Dimensional Scaffolds. , 2008, , 686-703.		4
129	EphrinA1-targeted nanoshells for photothermal ablation of prostate cancer cells. International Journal of Nanomedicine, 2008, , 351.	6.7	21
130	Nanotechnology for Tissue Engineering. , 2008, , 333-347.		3
131	Near Infrared Absorbing Nanoparticles for Photothermal Cancer Therapy. , 2008, , .		0
132	Nanotechnology Provides New Tools for Biomedical Optics. , 2008, , .		0
133	EphrinA I-targeted nanoshells for photothermal ablation of prostate cancer cells. International Journal of Nanomedicine, 2008, 3, 351-8.	6.7	62
134	Design and Characterization of Poly(Ethylene Glycol) Photopolymerizable Semi-Interpenetrating Networks for Chondrogenesis of Human Mesenchymal Stem Cells. Tissue Engineering, 2007, 13, 2549-2560.	4.6	136
135	Transendothelial migration enhances integrin-dependent human neutrophil chemokinesis. Journal of Leukocyte Biology, 2007, 81, 686-695.	3.3	31
136	Fabrication of 3D hepatic tissues by additive photopatterning of cellular hydrogels. FASEB Journal, 2007, 21, 790-801.	0.5	422
137	Synthetic Biomimetic Hydrogels Incorporated with Ephrin-A1 for Therapeutic Angiogenesis. Biomacromolecules, 2007, 8, 42-49.	5.4	94
138	Near-Infrared Resonant Nanoshells for Combined Optical Imaging and Photothermal Cancer Therapy. Nano Letters, 2007, 7, 1929-1934.	9.1	1,272
139	Poly(ethylene glycol) hydrogels conjugated with a collagenase-sensitive fluorogenic substrate to visualize collagenase activity during three-dimensional cell migration. Biomaterials, 2007, 28, 3163-3170.	11.4	98
140	Temperature-sensitive hydrogels with SiO2â€“Au nanoshells for controlled drug delivery. Journal of Controlled Release, 2007, 123, 219-227.	9.9	216
141	Application of INAA to the build-up and clearance of gold nanoshells in clinical studies in mice. Journal of Radioanalytical and Nuclear Chemistry, 2007, 271, 455-459.	1.5	162
142	Physiologic Pulsatile Flow Bioreactor Conditioning of Poly(ethylene glycol)-based Tissue Engineered Vascular Grafts. Annals of Biomedical Engineering, 2007, 35, 190-200.	2.5	159
143	Endochondral Bone Formation from Hydrogel Carriers Loaded with BMP2-transduced Cells. Annals of Biomedical Engineering, 2007, 35, 796-807.	2.5	39
144	Regulation of endothelial angiogenesis and vasculogenesis in synthetic poly(ethylene glycol) hydrogels modified with biomolecules. FASEB Journal, 2007, 21, A748.	0.5	4

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145	Tissue Engineered Vascular Grafts. , 2007, , 26-1-26-13.		0
146	Angiogenesis-like Activity of Endothelial Cells Co-cultured with VEGF-producing Smooth Muscle Cells. Tissue Engineering, 2006, 12, 381-390.	4.6	50
147	Functionalization density dependence of single-walled carbon nanotubes cytotoxicity in vitro. Toxicology Letters, 2006, 161, 135-142.	0.8	810
148	Diagnostic and Therapeutic Applications of Metal Nanoshells. , 2006, , 157-169.		2
149	Photolithographic patterning of polyethylene glycol hydrogels. Biomaterials, 2006, 27, 2519-2524.	11.4	372
150	Correlating Nanoscale Titania Structure with Toxicity: A Cytotoxicity and Inflammatory Response Study with Human Dermal Fibroblasts and Human Lung Epithelial Cells. Toxicological Sciences, 2006, 92, 174-185.	3.1	757
151	Remembering Dr. Richard E. Smalley, 1943â€“2005. Biomedical Microdevices, 2006, 8, 7-7.	2.8	0
152	Metal Nanoshells. Annals of Biomedical Engineering, 2006, 34, 15-22.	2.5	487
153	Overexpression of Lysyl Oxidase to Increase Matrix Crosslinking and Improve Tissue Strength in Dermal Wound Healing. Annals of Biomedical Engineering, 2006, 34, 1239-1246.	2.5	36
154	Bioactive Hydrogel Substrates: Probing Leukocyte Receptorâ€“Ligand Interactions in Parallel Plate Flow Chamber Studies. Annals of Biomedical Engineering, 2006, 34, 1705-1711.	2.5	22
155	Laser-scanning lithography (LSL) for the soft lithographic patterning of cell-adhesive self-assembled monolayers. Biotechnology and Bioengineering, 2006, 93, 1060-1068.	3.3	51
156	Three-Dimensional Biochemical and Biomechanical Patterning of Hydrogels for Guiding Cell Behavior. Advanced Materials, 2006, 18, 2679-2684.	21.0	424
157	Novel Heparanase-Inhibiting Antibody Reduces Neointima Formation. Journal of Biochemistry, 2006, 139, 339-345.	1.7	23
158	Protease-activated quantum dot probes. , 2006, 6191, 330.		3
159	Poly(ethylene glycol)-lysine dendrimers for targeted delivery of nitric oxide. Journal of Biomaterials Science, Polymer Edition, 2006, 17, 1159-1172.	3.5	23
160	Immunonanoshells for targeted photothermal ablation of tumor cells. International Journal of Nanomedicine, 2006, 1, 149-154.	6.7	246
161	Promotion of endothelial tubulogenesis with EphrinA1 and EphB4 conjugated to synthetic hydrogels. FASEB Journal, 2006, 20, A12.	0.5	1
162	Covalently immobilized gradients of bFGF on hydrogel scaffolds for directed cell migration. Biomaterials, 2005, 26, 3227-3234.	11.4	434

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163	Nano-C60 cytotoxicity is due to lipid peroxidation. Biomaterials, 2005, 26, 7587-7595.	11.4	651
164	Proteolytically Degradable Hydrogels with a Fluorogenic Substrate for Studies of Cellular Proteolytic Activity and Migration. Biotechnology Progress, 2005, 21, 1736-1741.	2.6	66
165	Covalent immobilization of RGDS on hydrogel surfaces to direct cell alignment and migration. Journal of Controlled Release, 2005, 109, 139-148.	9.9	158
166	Modification of polyurethaneurea with PEG and YIGSR peptide to enhance endothelialization without platelet adhesion. Journal of Biomedical Materials Research Part B, 2005, 72B, 131-139.	3.1	90
167	Independent Optical Control of Microfluidic Valves Formed from Optomechanically Responsive Nanocomposite Hydrogels. Advanced Materials, 2005, 17, 1366-1368.	21.0	297
168	Laser Scanning Lithography for Surface Micropatterning on Hydrogels. Advanced Materials, 2005, 17, 2939-2942.	21.0	85
169	Diagnostic and Therapeutic Applications of Metal Nanoshells. , 2005, , 327-342.		3
170	Near infrared laser-tissue welding using nanoshells as an exogenous absorber. Lasers in Surgery and Medicine, 2005, 37, 123-129.	2.1	159
171	Localized delivery of nitric oxide from hydrogels inhibits neointima formation in a rat carotid balloon injury model. Acta Biomaterialia, 2005, 1, 597-606.	8.3	50
172	Optically tunable nanoparticle contrast agents for early cancer detection: model-based analysis of gold nanoshells. Journal of Biomedical Optics, 2005, 10, 064035.	2.6	112
173	Whole-Blood Immunoassay Facilitated by Gold Nanoshellâ€“Conjugate Antibodies. , 2005, 303, 101-112.		38
174	Nitric oxide-generating hydrogels inhibit neointima formation. Journal of Biomaterials Science, Polymer Edition, 2005, 16, 659-672.	3.5	49
175	Laser tissue soldering with near-infrared absorbing nanoparticles. , 2005, 5686, 261.		1
176	Photothermal cancer therapy using intravenously injected near-infrared-absorbing nanoparticles. , 2005, 5689, 149.		2
177	Immunotargeted Nanoshells for Integrated Cancer Imaging and Therapy. Nano Letters, 2005, 5, 709-711.	9.1	1,721
178	Poly(ethylene glycol) Hydrogel System Supports Preadipocyte Viability, Adhesion, and Proliferation. Tissue Engineering, 2005, 11, 1498-1505.	4.6	145
179	Nitric Oxide-Producing Polyurethanes. Biomacromolecules, 2005, 6, 838-844.	5.4	108
180	Gold nanoshell bioconjugates for molecular imaging in living cells. Optics Letters, 2005, 30, 1012.	3.3	308

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