

# Jeffrey A Hubbell

## List of Publications by Year in descending order

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422  
papers

55,200  
citations

699

121  
h-index

1456

220  
g-index

442  
all docs

442  
docs citations

442  
times ranked

39773  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic biomaterials as instructive extracellular microenvironments for morphogenesis in tissue engineering. <i>Nature Biotechnology</i> , 2005, 23, 47-55.	9.4	4,068
2	Synthetic matrix metalloproteinase-sensitive hydrogels for the conduction of tissue regeneration: Engineering cell-invasion characteristics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 5413-5418.	3.3	1,331
3	Exploiting lymphatic transport and complement activation in nanoparticle vaccines. <i>Nature Biotechnology</i> , 2007, 25, 1159-1164.	9.4	1,142
4	Bioerodible hydrogels based on photopolymerized poly(ethylene glycol)-co-poly(.alpha.-hydroxy acid) diacrylate macromers. <i>Macromolecules</i> , 1993, 26, 581-587.	2.2	938
5	An RGD spacing of 440 nm is sufficient for integrin alpha V beta 3-mediated fibroblast spreading and 140 nm for focal contact and stress fiber formation.. <i>Journal of Cell Biology</i> , 1991, 114, 1089-1100.	2.3	845
6	Oxidation-responsive polymeric vesicles. <i>Nature Materials</i> , 2004, 3, 183-189.	13.3	798
7	Repair of bone defects using synthetic mimetics of collagenous extracellular matrices. <i>Nature Biotechnology</i> , 2003, 21, 513-518.	9.4	797
8	Incorporation of adhesion peptides into nonadhesive hydrogels useful for tissue resurfacing. , 1998, 39, 266-276.		792
9	Biomaterials in Tissue Engineering. <i>Nature Biotechnology</i> , 1995, 13, 565-576.	9.4	773
10	Synthesis and Physicochemical Characterization of End-Linked Poly(ethylene glycol)-co-peptide Hydrogels Formed by Michael-Type Addition. <i>Biomacromolecules</i> , 2003, 4, 713-722.	2.6	639
11	Poly(L-lysine)-g-Poly(ethylene glycol) Layers on Metal Oxide Surfaces: Attachment Mechanism and Effects of Polymer Architecture on Resistance to Protein Adsorption. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3298-3309.	1.2	620
12	In vivo targeting of dendritic cells in lymph nodes with poly(propylene sulfide) nanoparticles. <i>Journal of Controlled Release</i> , 2006, 112, 26-34.	4.8	605
13	Polymeric Biomaterials with Degradation Sites for Proteases Involved in Cell Migration. <i>Macromolecules</i> , 1999, 32, 241-244.	2.2	574
14	Characterization of permeability and network structure of interfacially photopolymerized poly(ethylene glycol) diacrylate hydrogels. <i>Biomaterials</i> , 1998, 19, 1287-1294.	5.7	553
15	Development of fibrin derivatives for controlled release of heparin-binding growth factors. <i>Journal of Controlled Release</i> , 2000, 65, 389-402.	4.8	537
16	Molecularly Engineered PEG Hydrogels: A Novel Model System for Proteolytically Mediated Cell Migration. <i>Biophysical Journal</i> , 2005, 89, 1374-1388.	0.2	509
17	Cell-demanded release of VEGF from synthetic, biointeractive cell-growth matrices for vascularized tissue growth. <i>FASEB Journal</i> , 2003, 17, 2260-2262.	0.2	501
18	Materials engineering for immunomodulation. <i>Nature</i> , 2009, 462, 449-460.	13.7	493

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19	Poly(L-lysine)-g-poly(ethylene glycol) Layers on Metal Oxide Surfaces: A Surface-Analytical Characterization and Resistance to Serum and Fibrinogen Adsorption. <i>Langmuir</i> , 2001, 17, 489-498.	1.6	490
20	Cell-Responsive Synthetic Hydrogels. <i>Advanced Materials</i> , 2003, 15, 888-892.	11.1	486
21	Surface Treatments of Polymers for Biocompatibility. <i>Annual Review of Materials Research</i> , 1996, 26, 365-394.	5.5	479
22	Bioactive biomaterials. <i>Current Opinion in Biotechnology</i> , 1999, 10, 123-129.	3.3	470
23	Nanomaterials for Drug Delivery. <i>Science</i> , 2012, 337, 303-305.	6.0	465
24	Enhanced proteolytic degradation of molecularly engineered PEG hydrogels in response to MMP-1 and MMP-2. <i>Biomaterials</i> , 2010, 31, 7836-7845.	5.7	463
25	Thin Polymer Layers Formed by Polyelectrolyte Multilayer Techniques on Biological Surfaces. <i>Langmuir</i> , 1999, 15, 5355-5362.	1.6	427
26	PEG-SS-PPS: A Reduction-Sensitive Disulfide Block Copolymer Vesicles for Intracellular Drug Delivery. <i>Biomacromolecules</i> , 2007, 8, 1966-1972.	2.6	418
27	Growth Factors Engineered for Super-Affinity to the Extracellular Matrix Enhance Tissue Healing. <i>Science</i> , 2014, 343, 885-888.	6.0	406
28	Controlled release of nerve growth factor from a heparin-containing fibrin-based cell ingrowth matrix. <i>Journal of Controlled Release</i> , 2000, 69, 149-158.	4.8	402
29	Heparin-binding domain of fibrin(ogen) binds growth factors and promotes tissue repair when incorporated within a synthetic matrix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4563-4568.	3.3	401
30	Engineering the Growth Factor Microenvironment with Fibronectin Domains to Promote Wound and Bone Tissue Healing. <i>Science Translational Medicine</i> , 2011, 3, 100ra89.	5.8	391
31	Targeting dendritic cells with biomaterials: developing the next generation of vaccines. <i>Trends in Immunology</i> , 2006, 27, 573-579.	2.9	390
32	Covalent surface immobilization of Arg-Gly-Asp- and Tyr-Ile-Gly-Ser-Arg-containing peptides to obtain well-defined cell-adhesive substrates. <i>Analytical Biochemistry</i> , 1990, 187, 292-301.	1.1	389
33	Conjugate Addition Reactions Combined with Free-Radical Cross-Linking for the Design of Materials for Tissue Engineering. <i>Biomacromolecules</i> , 2001, 2, 430-441.	2.6	389
34	Fibrin gel as a three dimensional matrix in cardiovascular tissue engineering. <i>European Journal of Cardio-thoracic Surgery</i> , 2000, 17, 587-591.	0.6	379
35	Photopolymerized hyaluronic acid-based hydrogels and interpenetrating networks. <i>Biomaterials</i> , 2003, 24, 893-900.	5.7	373
36	Cell-Demanded Liberation of VEGF121 From Fibrin Implants Induces Local and Controlled Blood Vessel Growth. <i>Circulation Research</i> , 2004, 94, 1124-1132.	2.0	355

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37	Materials as morphogenetic guides in tissue engineering. <i>Current Opinion in Biotechnology</i> , 2003, 14, 551-558.	3.3	352
38	Covalently conjugated VEGF-fibrin matrices for endothelialization. <i>Journal of Controlled Release</i> , 2001, 72, 101-113.	4.8	351
39	Systematic Modulation of Michael-Type Reactivity of Thiols through the Use of Charged Amino Acids. <i>Bioconjugate Chemistry</i> , 2001, 12, 1051-1056.	1.8	334
40	Engineering the Regenerative Microenvironment with Biomaterials. <i>Advanced Healthcare Materials</i> , 2013, 2, 57-71.	3.9	329
41	Protein delivery from materials formed by self-selective conjugate addition reactions. <i>Journal of Controlled Release</i> , 2001, 76, 11-25.	4.8	328
42	Biopolymeric delivery matrices for angiogenic growth factors. <i>Cardiovascular Pathology</i> , 2003, 12, 295-310.	0.7	321
43	Enzymatic incorporation of bioactive peptides into fibrin matrices enhances neurite extension. <i>Nature Biotechnology</i> , 2000, 18, 415-419.	9.4	316
44	Biologically Engineered Protein-graft-Poly(ethylene glycol) Hydrogels: A Cell Adhesive and Plasmin-Degradable Biosynthetic Material for Tissue Repair. <i>Biomacromolecules</i> , 2002, 3, 710-723.	2.6	302
45	RGD-grafted poly-l-lysine-graft-(polyethylene glycol) copolymers block non-specific protein adsorption while promoting cell adhesion. <i>Biotechnology and Bioengineering</i> , 2003, 82, 784-790.	1.7	301
46	Network Formation and Degradation Behavior of Hydrogels Formed by Michael-Type Addition Reactions. <i>Biomacromolecules</i> , 2005, 6, 290-301.	2.6	301
47	Controlling integrin specificity and stem cell differentiation in 2D and 3D environments through regulation of fibronectin domain stability. <i>Biomaterials</i> , 2009, 30, 1089-1097.	5.7	300
48	Three-dimensional extracellular matrix-directed cardioprogenitor differentiation: Systematic modulation of a synthetic cell-responsive PEG-hydrogel. <i>Biomaterials</i> , 2008, 29, 2757-2766.	5.7	294
49	Biofunctional polymer nanoparticles for intra-articular targeting and retention in cartilage. <i>Nature Materials</i> , 2008, 7, 248-254.	13.3	292
50	Cross-Linking Exogenous Bifunctional Peptides into Fibrin Gels with Factor XIIIa. <i>Bioconjugate Chemistry</i> , 1999, 10, 75-81.	1.8	287
51	Human endothelial cell interactions with surface-coupled adhesion peptides on a nonadhesive glass substrate and two polymeric biomaterials. <i>Journal of Biomedical Materials Research Part B</i> , 1991, 25, 223-242.	3.0	283
52	In situ cell manipulation through enzymatic hydrogel photopatterning. <i>Nature Materials</i> , 2013, 12, 1072-1078.	13.3	282
53	Engineering growth factors for regenerative medicine applications. <i>Acta Biomaterialia</i> , 2016, 30, 1-12.	4.1	273
54	MMP-2 sensitive, VEGF-bearing bioactive hydrogels for promotion of vascular healing. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 68A, 704-716.	3.0	271

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55	The effect of matrix characteristics on fibroblast proliferation in 3D gels. <i>Biomaterials</i> , 2010, 31, 8454-8464.	5.7	271
56	Endothelial Cell-Selective Materials for Tissue Engineering in the Vascular Graft Via a New Receptor. <i>Nature Biotechnology</i> , 1991, 9, 568-572.	9.4	265
57	Biomolecular Hydrogels Formed and Degraded via Site-Specific Enzymatic Reactions. <i>Biomacromolecules</i> , 2007, 8, 3000-3007.	2.6	264
58	The 12th and 14th type III repeats of fibronectin function as a highly promiscuous growth factor-binding domain. <i>FASEB Journal</i> , 2010, 24, 4711-4721.	0.2	259
59	Solution technique to incorporate polyethylene oxide and other water-soluble polymers into surfaces of polymeric biomaterials. <i>Biomaterials</i> , 1991, 12, 144-153.	5.7	258
60	Targeting the tumor-draining lymph node with adjuvanted nanoparticles reshapes the anti-tumor immune response. <i>Biomaterials</i> , 2014, 35, 814-824.	5.7	256
61	In Vitro and in Vivo Performance of Porcine Islets Encapsulated in Interfacially Photopolymerized Poly(Ethylene Glycol) Diacrylate Membranes. <i>Cell Transplantation</i> , 1999, 8, 293-306.	1.2	255
62	Biomimetic materials in tissue engineering. <i>Materials Today</i> , 2010, 13, 14-22.	8.3	251
63	Biological responses to polyethylene oxide modified polyethylene terephthalate surfaces. <i>Journal of Biomedical Materials Research Part B</i> , 1991, 25, 829-843.	3.0	242
64	Glucose-oxidase Based Self-Destructing Polymeric Vesicles. <i>Langmuir</i> , 2004, 20, 3487-3491.	1.6	228
65	Nanoparticle conjugation of CpG enhances adjuvancy for cellular immunity and memory recall at low dose. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19902-19907.	3.3	223
66	Hollow Mesoporous Plasmonic Nanoshells for Enhanced Solar Vapor Generation. <i>Nano Letters</i> , 2016, 16, 2159-2167.	4.5	223
67	A sensitivity study of the key parameters in the interfacial photopolymerization of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 219		
68	Chemisorbed poly(propylene sulphide)-based copolymers resist biomolecular interactions. <i>Nature Materials</i> , 2003, 2, 259-264.	13.3	214
69	Extracellular matrix-inspired growth factor delivery systems for bone regeneration. <i>Advanced Drug Delivery Reviews</i> , 2015, 94, 41-52.	6.6	214
70	Photopolymerized hydrogel materials for drug delivery applications. <i>Reactive &amp; Functional Polymers</i> , 1995, 25, 139-147.	0.8	213
71	Synthetic extracellular matrices for in situ tissue engineering. <i>Biotechnology and Bioengineering</i> , 2004, 86, 27-36.	1.7	213
72	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, 5967-5971.	3.3	207

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73	Dendritic cell activation and T cell priming with adjuvant- and antigen-loaded oxidation-sensitive polymersomes. <i>Biomaterials</i> , 2012, 33, 6211-6219.	5.7	206
74	Enzymatic formation of modular cell-instructive fibrin analogs for tissue engineering. <i>Biomaterials</i> , 2007, 28, 3856-3866.	5.7	203
75	Antigen delivery to dendritic cells by poly(propylene sulfide) nanoparticles with disulfide conjugated peptides: Cross-presentation and T cell activation. <i>Vaccine</i> , 2010, 28, 7897-7906.	1.7	199
76	Engineering Approaches to Immunotherapy. <i>Science Translational Medicine</i> , 2012, 4, 148rv9.	5.8	194
77	Bovine Primary Chondrocyte Culture in Synthetic Matrix Metalloproteinase-Sensitive Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlo	4.9	192
78	Carbon Monoxide-Releasing Micelles for Immunotherapy. <i>Journal of the American Chemical Society</i> , 2010, 132, 18273-18280.	6.6	191
79	The selective modulation of endothelial cell mobility on RGD peptide containing surfaces by YIGSR peptides. <i>Biomaterials</i> , 2005, 26, 167-174.	5.7	190
80	Peptide functionalized poly(L-lysine)-g-poly(ethylene glycol) on titanium: resistance to protein adsorption in full heparinized human blood plasma. <i>Biomaterials</i> , 2003, 24, 4949-4958.	5.7	189
81	Surface-immobilized polyethylene oxide for bacterial repellence. <i>Biomaterials</i> , 1992, 13, 417-420.	5.7	188
82	Extracellular Matrix-Inspired Growth Factor Delivery Systems for Skin Wound Healing. <i>Advances in Wound Care</i> , 2015, 4, 479-489.	2.6	187
83	Incorporation of heparin-binding peptides into fibrin gels enhances neurite extension: an example of designer matrices in tissue engineering. <i>FASEB Journal</i> , 1999, 13, 2214-2224.	0.2	186
84	Recombinant Protein-co-PEG Networks as Cell-Adhesive and Proteolytically Degradable Hydrogel Matrixes. Part I: Development and Physicochemical Characteristics. <i>Biomacromolecules</i> , 2005, 6, 1226-1238.	2.6	185
85	MATERIALS SCIENCE: Enhancing Drug Function. <i>Science</i> , 2003, 300, 595-596.	6.0	181
86	Poly(ethylene glycol) hydrogels formed by conjugate addition with controllable swelling, degradation, and release of pharmaceutically active proteins. <i>Journal of Controlled Release</i> , 2005, 102, 619-627.	4.8	181
87	Doxorubicin encapsulation and diffusional release from stable, polymeric, hydrogel nanoparticles. <i>European Journal of Pharmaceutical Sciences</i> , 2006, 29, 120-129.	1.9	179
88	Polymer Networks with Grafted Cell Adhesion Peptides for Highly Biospecific Cell Adhesive Substrates. <i>Analytical Biochemistry</i> , 1994, 222, 380-388.	1.1	178
89	Optimization of photopolymerized bioerodible hydrogel properties for adhesion prevention. <i>Journal of Biomedical Materials Research Part B</i> , 1994, 28, 831-838.	3.0	176
90	Recombinant Protein-co-PEG Networks as Cell-Adhesive and Proteolytically Degradable Hydrogel Matrixes. Part II: Biofunctional Characteristics. <i>Biomacromolecules</i> , 2006, 7, 3019-3029.	2.6	176

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91	Rapid photopolymerization of immunoprotective gels in contact with cells and tissue. <i>Journal of the American Chemical Society</i> , 1992, 114, 8311-8312.	6.6	172
92	Antigens reversibly conjugated to a polymeric glyco-adjuvant induce protective humoral and cellular immunity. <i>Nature Materials</i> , 2019, 18, 175-185.	13.3	172
93	Development of growth factor fusion proteins for cell-triggered drug delivery. <i>FASEB Journal</i> , 2001, 15, 1300-1302.	0.2	171
94	Engineering antigens for in situ erythrocyte binding induces T-cell deletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E60-8.	3.3	167
95	Device design and materials optimization of conformal coating for islets of Langerhans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10514-10519.	3.3	167
96	Enhancing Efficacy of Anticancer Vaccines by Targeted Delivery to Tumor-Draining Lymph Nodes. <i>Cancer Immunology Research</i> , 2014, 2, 436-447.	1.6	165
97	Endothelial cell proliferation and progenitor maturation by fibrin-bound VEGF variants with differential susceptibilities to local cellular activity. <i>Journal of Controlled Release</i> , 2005, 101, 93-109.	4.8	163
98	Photo-crosslinked copolymers of 2-hydroxyethyl methacrylate, poly(ethylene glycol) tetra-acrylate and ethylene dimethacrylate for improving biocompatibility of biosensors. <i>Biomaterials</i> , 1995, 16, 389-396.	5.7	162
99	The effect of the linker on the hydrolysis rate of drug-linked ester bonds. <i>Journal of Controlled Release</i> , 2004, 95, 291-300.	4.8	162
100	Synthesis of Polymer Network Scaffolds from L-Lactide and Poly(ethylene glycol) and Their Interaction with Cells. <i>Macromolecules</i> , 1997, 30, 6077-6083.	2.2	161
101	Nanoparticle conjugation of antigen enhances cytotoxic T-cell responses in pulmonary vaccination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E989-97.	3.3	160
102	Bone repair with a form of BMP-2 engineered for incorporation into fibrin cell ingrowth matrices. <i>Biotechnology and Bioengineering</i> , 2005, 89, 253-262.	1.7	159
103	Extracellular Matrix and Growth Factor Engineering for Controlled Angiogenesis in Regenerative Medicine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 45.	2.0	159
104	Covalently Attached GRGD on Polymer Surfaces Promotes Biospecific Adhesion of Mammalian Cells. <i>Annals of the New York Academy of Sciences</i> , 1990, 589, 261-270.	1.8	158
105	Silk Hydrogels as Soft Substrates for Neural Tissue Engineering. <i>Advanced Functional Materials</i> , 2013, 23, 5140-5149.	7.8	157
106	Poly(ethylene oxide)-graft-poly(L-lysine) copolymers to enhance the biocompatibility of poly(L-lysine)-alginate microcapsule membranes. <i>Biomaterials</i> , 1992, 13, 863-870.	5.7	153
107	Primary Human and Rat $\beta$ 2-Cells Release the Intracellular Autoantigens CAD65, IA-2, and Proinsulin in Exosomes Together With Cytokine-Induced Enhancers of Immunity. <i>Diabetes</i> , 2017, 66, 460-473.	0.3	152
108	Selective Molecular Assembly Patterning: A New Approach to Micro- and Nanochemical Patterning of Surfaces for Biological Applications. <i>Langmuir</i> , 2002, 18, 3281-3287.	1.6	151

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109	Laminin heparin-binding peptides bind to several growth factors and enhance diabetic wound healing. <i>Nature Communications</i> , 2018, 9, 2163.	5.8	150
110	Oxidation-Sensitive Polymeric Nanoparticles. <i>Langmuir</i> , 2005, 21, 411-417.	1.6	147
111	Interfacial photopolymerization of poly(ethylene glycol)-based hydrogels upon alginate-poly(l-lysine) microcapsules for enhanced biocompatibility. <i>Biomaterials</i> , 1993, 14, 1008-1016.	5.7	144
112	Three-dimensional Migration of Neurites Is Mediated by Adhesion Site Density and Affinity. <i>Journal of Biological Chemistry</i> , 2000, 275, 6813-6818.	1.6	144
113	Collagen-binding IL-12 enhances tumour inflammation and drives the complete remission of established immunologically cold mouse tumours. <i>Nature Biomedical Engineering</i> , 2020, 4, 531-543.	11.6	141
114	Human embryonic stem cell-derived microvascular grafts for cardiac tissue preservation after myocardial infarction. <i>Biomaterials</i> , 2011, 32, 1102-1109.	5.7	139
115	New Synthetic Methodologies for Amphiphilic Multiblock Copolymers of Ethylene Glycol and Propylene Sulfide. <i>Macromolecules</i> , 2001, 34, 8913-8917.	2.2	137
116	Long-lasting fibrin matrices ensure stable and functional angiogenesis by highly tunable, sustained delivery of recombinant VEGF <sub>164</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6952-6957.	3.3	136
117	Targeted antibody and cytokine cancer immunotherapies through collagen affinity. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	134
118	Surface physical interpenetrating networks of poly(ethylene terephthalate) and poly(ethylene oxide) with biomedical applications. <i>Macromolecules</i> , 1992, 25, 226-232.	2.2	131
119	Matrix-binding checkpoint immunotherapies enhance antitumor efficacy and reduce adverse events. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	131
120	The role of actively released fibrin-conjugated VEGF for VEGF receptor 2 gene activation and the enhancement of angiogenesis. <i>Biomaterials</i> , 2008, 29, 1720-1729.	5.7	130
121	Peptide-matrix-mediated gene transfer of an oxygen-insensitive hypoxia-inducible factor-1 $\Delta$ variant for local induction of angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2506-2511.	3.3	129
122	The effect of enzymatically degradable poly(ethylene glycol) hydrogels on smooth muscle cell phenotype. <i>Biomaterials</i> , 2008, 29, 314-326.	5.7	129
123	Toll-like receptor 8 agonist nanoparticles mimic immunomodulating effects of the live BCG vaccine and enhance neonatal innate and adaptive immune responses. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 140, 1339-1350.	1.5	128
124	Engineering integrin signaling for promoting embryonic stem cell self-renewal in a precisely defined niche. <i>Biomaterials</i> , 2010, 31, 1219-1226.	5.7	127
125	Lymphatic drainage function and its immunological implications: From dendritic cell homing to vaccine design. <i>Seminars in Immunology</i> , 2008, 20, 147-156.	2.7	126
126	Size- and charge-dependent non-specific uptake of PEGylated nanoparticles by macrophages. <i>International Journal of Nanomedicine</i> , 2012, 7, 799.	3.3	126



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127	Fibronectin modulates macrophage adhesion and FBGC formation: The role of RGD, PHSRN, and PRRARV domains. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 55, 79-88.	3.0	125
128	Cell-responsive hydrogel for encapsulation of vascular cells. <i>Biomaterials</i> , 2009, 30, 4318-4324.	5.7	125
129	Design principles for therapeutic angiogenic materials. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	125
130	Self-assembly and steric stabilization at heterogeneous, biological surfaces using adsorbing block copolymers. <i>Chemistry and Biology</i> , 1998, 5, 177-183.	6.2	124
131	Hydrogel systems for barriers and local drug delivery in the control of wound healing. <i>Journal of Controlled Release</i> , 1996, 39, 305-313.	4.8	122
132	Engineering complement activation on polypropylene sulfide vaccine nanoparticles. <i>Biomaterials</i> , 2011, 32, 2194-2203.	5.7	120
133	Force Measurements between Bacteria and Poly(ethylene glycol)-Coated Surfaces. <i>Langmuir</i> , 2000, 16, 9155-9158.	1.6	119
134	Densely crosslinked polymer networks of poly(ethylene glycol) in trimethylolpropane triacrylate for cell-adhesion-resistant surfaces. <i>Journal of Biomedical Materials Research Part B</i> , 1995, 29, 207-215.	3.0	118
135	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, 13188-13193.	3.3	118
136	Overcoming immunological barriers in regenerative medicine. <i>Nature Biotechnology</i> , 2014, 32, 786-794.	9.4	118
137	Tunable T cell immunity towards a protein antigen using polymersomes vs. solid-core nanoparticles. <i>Biomaterials</i> , 2013, 34, 4339-4346.	5.7	116
138	Peripherally Administered Nanoparticles Target Monocytic Myeloid Cells, Secondary Lymphoid Organs and Tumors in Mice. <i>PLoS ONE</i> , 2013, 8, e61646.	1.1	116
139	Towards a fully-synthetic substitute of alginate: development of a new process using thermal gelation and chemical cross-linking. <i>Biomaterials</i> , 2004, 25, 5115-5124.	5.7	113
140	Amphiphilic Hydrogel Nanoparticles. Preparation, Characterization, and Preliminary Assessment as New Colloidal Drug Carriers. <i>Langmuir</i> , 2005, 21, 2605-2613.	1.6	111
141	Tenascin C Promiscuously Binds Growth Factors via Its Fifth Fibronectin Type III-Like Domain. <i>PLoS ONE</i> , 2013, 8, e62076.	1.1	108
142	RGD-containing peptide GCRGYGRGDSPG reduces enhancement of osteoblast differentiation by poly(L-lysine)-graft-poly(ethylene glycol)-coated titanium surfaces. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 68A, 458-472.	3.0	107
143	Nanoparticle conjugation and pulmonary delivery enhance the protective efficacy of Ag85B and CpG against tuberculosis. <i>Vaccine</i> , 2011, 29, 6959-6966.	1.7	107
144	Bone healing in the rat and dog with nonglycosylated BMP-2 demonstrating low solubility in fibrin matrices. <i>Journal of Orthopaedic Research</i> , 2004, 22, 376-381.	1.2	106

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145	Design, Characterization, and One-Point in vivo Calibration of a Subcutaneously Implanted Glucose Electrode. <i>Analytical Chemistry</i> , 1994, 66, 3131-3138.	3.2	103
146	TLR-3 stimulation improves anti-tumor immunity elicited by dendritic cell exosome-based vaccines in a murine model of melanoma. <i>Scientific Reports</i> , 2015, 5, 17622.	1.6	103
147	Improving the osteogenic potential of BMP-2 with hyaluronic acid hydrogel modified with integrin-specific fibronectin fragment. <i>Biomaterials</i> , 2013, 34, 704-712.	5.7	102
148	Precision Intracellular Delivery Based on Optofluidic Polymersome Rupture. <i>ACS Nano</i> , 2012, 6, 7850-7857.	7.3	101
149	Visualization and analysis of mural thrombogenesis on collagen, polyurethane and nylon. <i>Biomaterials</i> , 1986, 7, 354-363.	5.7	98
150	Lactide-Based Poly(ethylene glycol) Polymer Networks for Scaffolds in Tissue Engineering. <i>Macromolecules</i> , 1996, 29, 5233-5235.	2.2	98
151	Rapidly degraded terpolymers of DL-lactide, glycolide, and $\epsilon$ -caprolactone with increased hydrophilicity by copolymerization with polyethers. <i>Journal of Biomedical Materials Research Part B</i> , 1990, 24, 1397-1411.	3.0	97
152	Local Release of Fibrinolytic Agents for Adhesion Prevention. <i>Journal of Surgical Research</i> , 1995, 59, 759-763.	0.8	96
153	Synthetic biodegradable polymers for tissue engineering and drug delivery. <i>Current Opinion in Solid State and Materials Science</i> , 1998, 3, 246-251.	5.6	96
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155	Translating materials design to the clinic. <i>Nature Materials</i> , 2013, 12, 963-966.	13.3	96
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