Jeffrey A Hubbell

List of Publications by Year
in descending order

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422	55,200	699 121	1456 220
papers	citations	h-index	g-index

442	442	442	39773
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kidney repair and regeneration: perspectives of the NIDDK (Re)Building a Kidney consortium. Kidney International, 2022, 101, 845-853.	2.6	22
2	Masking the immunotoxicity of interleukin-12 by fusing it with a domain of its receptor via a tumour-protease-cleavable linker. Nature Biomedical Engineering, 2022, 6, 819-829.	11.6	32
3	Therapeutic use of Î±2-antiplasmin as an antifibrinolytic and hemostatic agent in surgery and regenerative medicine. Npj Regenerative Medicine, 2022, 7, .	2.5	6
4	Robust coupling of angiogenesis and osteogenesis by VEGF-decorated matrices for bone regeneration. Acta Biomaterialia, 2022, 149, 111-125.	4.1	26
5	Prolonged residence of an albuminâ€“IL-4 fusion protein in secondary lymphoid organs ameliorates experimental autoimmune encephalomyelitis. Nature Biomedical Engineering, 2021, 5, 387-398.	11.6	20
6	Suppression of Rheumatoid Arthritis by Enhanced Lymph Node Trafficking of Engineered Interleukinâ€10 in Murine Models. Arthritis and Rheumatology, 2021, 73, 769-778.	2.9	14
7	Persistent antigen exposure via the eryptotic pathway drives terminal T cell dysfunction. Science Immunology, 2021, 6, .	5.6	13
8	Soluble N-Acetylgalactosamine-Modified Antigens Enhance Hepatocyte-Dependent Antigen Cross-Presentation and Result in Antigen-Specific CD8+ T Cell Tolerance Development. Frontiers in Immunology, 2021, 12, 555095.	2.2	10
9	Lymphangiogenesis-inducing vaccines elicit potent and long-lasting T cell immunity against melanomas. Science Advances, 2021, 7, .	4.7	36
10	Engineered bridge protein with dual affinity for bone morphogenetic protein-2 and collagen enhances bone regeneration for spinal fusion. Science Advances, 2021, 7, .	4.7	24
11	Polymersomes Decorated with the SARS-CoV-2 Spike Protein Receptor-Binding Domain Elicit Robust Humoral and Cellular Immunity. ACS Central Science, 2021, 7, 1368-1380.	5.3	21
12	Robust Angiogenesis and Arteriogenesis in the Skin of Diabetic Mice by Transient Delivery of Engineered VEGF and PDGF-BB Proteins in Fibrin Hydrogels. Frontiers in Bioengineering and Biotechnology, 2021, 9, 688467.	2.0	18
13	Immunoengineering approaches for cytokine therapy. American Journal of Physiology - Cell Physiology, 2021, 321, C369-C383.	2.1	15
14	Lymph Node-Targeted Synthetically Glycosylated Antigen Leads to Antigen-Specific Immunological Tolerance. Frontiers in Immunology, 2021, 12, 714842.	2.2	10
15	Generation of potent cellular and humoral immunity against SARS-CoV-2 antigens via conjugation to a polymeric glyco-adjuvant. Biomaterials, 2021, 278, 121159.	5.7	23
16	Overcoming transport barriers to immunotherapy. Drug Delivery and Translational Research, 2021, 11, 2273-2275.	3.0	1
17	VEGF-A, PDGF-BB and HB-EGF engineered for promiscuous super affinity to the extracellular matrix improve wound healing in a model of type 1 diabetes. Npj Regenerative Medicine, 2021, 6, 76.	2.5	27
18	Growth factors with enhanced syndecan binding generate tonic signalling and promote tissue healing. Nature Biomedical Engineering, 2020, 4, 463-475.	11.6	53

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19	An optimized antigenâ€“protein fusion. Nature Biomedical Engineering, 2020, 4, 583-584.	11.6	6
20	Surface-Immobilized Biomolecules. , 2020, , 539-551.		2
21	Morphogenesis and tissue engineering. , 2020, , 133-144.		1
22	Collagen-binding IL-12 enhances tumour inflammation and drives the complete remission of established immunologically cold mouse tumours. Nature Biomedical Engineering, 2020, 4, 531-543.	11.6	141
23	Engineering Targeting Materials for Therapeutic Cancer Vaccines. Frontiers in Bioengineering and Biotechnology, 2020, 8, 19.	2.0	23
24	Engineered collagen-binding serum albumin as a drug conjugate carrier for cancer therapy. Science Advances, 2019, 5, eaaw6081.	4.7	58
25	Synthetically glycosylated antigens induce antigen-specific tolerance and prevent the onset of diabetes. Nature Biomedical Engineering, 2019, 3, 817-829.	11.6	46
26	Targeting inflammatory sites through collagen affinity enhances the therapeutic efficacy of anti-inflammatory antibodies. Science Advances, 2019, 5, eaay1971.	4.7	48
27	Synthetic 3D PEG-Anisogel Tailored with Fibronectin Fragments Induce Aligned Nerve Extension. Biomacromolecules, 2019, 20, 4075-4087.	2.6	38
28	Trojan horses for immunotherapy. Nature Nanotechnology, 2019, 14, 196-197.	15.6	8
29	A Bioinspired Scaffold with Anti-Inflammatory Magnesium Hydroxide and Decellularized Extracellular Matrix for Renal Tissue Regeneration. ACS Central Science, 2019, 5, 458-467.	5.3	73
30	Designing biofunctional immunotherapies. Nature Reviews Materials, 2019, 4, 350-352.	23.3	6
31	Targeted antibody and cytokine cancer immunotherapies through collagen affinity. Science Translational Medicine, 2019, 11, .	5.8	134
32	The heparin binding domain of von Willebrand factor binds to growth factors and promotes angiogenesis in wound healing. Blood, 2019, 133, 2559-2569.	0.6	81
33	Quantitative intrinsic auto-cathodoluminescence can resolve spectral signatures of tissue-isolated collagen extracellular matrix. Communications Biology, 2019, 2, 69.	2.0	8
34	Combination of Synthetic Long Peptides and XCL1 Fusion Proteins Results in Superior Tumor Control. Frontiers in Immunology, 2019, 10, 294.	2.2	27
35	Conferring extracellular matrix affinity enhances local therapeutic efficacy of anti-TNF-Î± antibody in a murine model of rheumatoid arthritis. Arthritis Research and Therapy, 2019, 21, 298.	1.6	9
36	Recruitment of CD103 ⁺ dendritic cells via tumor-targeted chemokine delivery enhances efficacy of checkpoint inhibitor immunotherapy. Science Advances, 2019, 5, eaay1357.	4.7	87

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37	Antigens reversibly conjugated to a polymeric glyco-adjuvant induce protective humoral and cellular immunity. Nature Materials, 2019, 18, 175-185.	13.3	172
38	Adaptive enhanced sampling by force-biasing using neural networks. Journal of Chemical Physics, 2018, 148, 134108.	1.2	39
39	Immunoisolation of murine islet allografts in vascularized sites through conformal coating with polyethylene glycol. American Journal of Transplantation, 2018, 18, 590-603.	2.6	53
40	Nanocrystalline Oligo(ethylene sulfide)-b-poly(ethylene glycol) Micelles: Structure and Stability. Macromolecules, 2018, 51, 9538-9546.	2.2	7
41	Efficient Solar-Vapor Generation in Hollow-Mesoporous Plasmonic Nanoshells. , 2018, , .		0
42	Modified Magnesium Hydroxide Nanoparticles Inhibit the Inflammatory Response to Biodegradable Poly(lactide-co-glycolide) Implants. ACS Nano, 2018, 12, 6917-6925.	7.3	71
43	A Computational and Experimental Study of Crystallization-Driven Self-Assembly and Micelle Formation in Poly(Ethylene Glycol)-B-Oligo(Ethylene Sulfide). Biophysical Journal, 2018, 114, 528a.	0.2	1
44	Improving Efficacy and Safety of Agonistic Anti-CD40 Antibody Through Extracellular Matrix Affinity. Molecular Cancer Therapeutics, 2018, 17, 2399-2411.	1.9	34
45	Laminin heparin-binding peptides bind to several growth factors and enhance diabetic wound healing. Nature Communications, 2018, 9, 2163.	5.8	150
46	(Re)Building a Kidney. Journal of the American Society of Nephrology: JASN, 2017, 28, 1370-1378.	3.0	58
47	Local induction of lymphangiogenesis with engineered fibrin-binding VEGF-C promotes wound healing by increasing immune cell trafficking and matrix remodeling. Biomaterials, 2017, 131, 160-175.	5.7	92
48	Advances in pancreatic islet monolayer culture on glass surfaces enable super-resolution microscopy and insights into beta cell ciliogenesis and proliferation. Scientific Reports, 2017, 7, 45961.	1.6	39
49	Human Kunitz-type protease inhibitor engineered for enhanced matrix retention extends longevity of fibrin biomaterials. Biomaterials, 2017, 135, 1-9.	5.7	12
50	Bioengineering strategies for inducing tolerance in autoimmune diabetes. Advanced Drug Delivery Reviews, 2017, 114, 256-265.	6.6	19
51	Toll-like receptor 8 agonist nanoparticles mimic immunomodulating effects of the live BCG vaccine and enhance neonatal innate and adaptive immune responses. Journal of Allergy and Clinical Immunology, 2017, 140, 1339-1350.	1.5	128
52	Vaccine nanocarriers: Coupling intracellular pathways and cellular biodistribution to control CD4 vs CD8 T cell responses. Biomaterials, 2017, 132, 48-58.	5.7	50
53	Oxidation-sensitive polymersomes as vaccine nanocarriers enhance humoral responses against Lassa virus envelope glycoprotein. Virology, 2017, 512, 161-171.	1.1	19
54	Matrix-binding checkpoint immunotherapies enhance antitumor efficacy and reduce adverse events. Science Translational Medicine, 2017, 9, .	5.8	131

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55	Difference in suitable mechanical properties of threeâ€dimensional, synthetic scaffolds for selfâ€renewing mouse embryonic stem cells of different genetic backgrounds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 2261-2268.	1.6	1
56	Primary Human and Rat Î²-Cells Release the Intracellular Autoantigens GAD65, IA-2, and Proinsulin in Exosomes Together With Cytokine-Induced Enhancers of Immunity. Diabetes, 2017, 66, 460-473.	0.3	152
57	Solar-vapor generation with 69% energy conversion efficiency in hollow-mesoporous plasmonic nanoshells. , 2017, , .		0
58	Engineered acellular collagen scaffold for endogenous cell guidance, a novel approach in urethral regeneration. Acta Biomaterialia, 2016, 43, 208-217.	4.1	37
59	Design principles for therapeutic angiogenic materials. Nature Reviews Materials, 2016, 1, .	23.3	125
60	Aberrant Accumulation of the Diabetes Autoantigen GAD65 in Golgi Membranes in Conditions of ER Stress and Autoimmunity. Diabetes, 2016, 65, 2686-2699.	0.3	28
61	Fibronectin EDA and CpG synergize to enhance antigen-specific Th1 and cytotoxic responses. Vaccine, 2016, 34, 2453-2459.	1.7	16
62	A Cationic Micelle Complex Improves CD8+ T Cell Responses in Vaccination Against Unmodified Protein Antigen. ACS Biomaterials Science and Engineering, 2016, 2, 231-240.	2.6	18
63	Hollow Mesoporous Plasmonic Nanoshells for Enhanced Solar Vapor Generation. Nano Letters, 2016, 16, 2159-2167.	4.5	223
64	Engineering growth factors for regenerative medicine applications. Acta Biomaterialia, 2016, 30, 1-12.	4.1	273
65	Nanoparticle conjugation enhances the immunomodulatory effects of intranasally delivered CpG in house dust mite-allergic mice. Scientific Reports, 2015, 5, 14274.	1.6	42
66	TLR-3 stimulation improves anti-tumor immunity elicited by dendritic cell exosome-based vaccines in a murine model of melanoma. Scientific Reports, 2015, 5, 17622.	1.6	103
67	Memory of tolerance and induction of regulatory T cells by erythrocyte-targeted antigens. Scientific Reports, 2015, 5, 15907.	1.6	69
68	Engineered binding to erythrocytes induces immunological tolerance to E. coli asparaginase. Science Advances, 2015, 1, e1500112.	4.7	80
69	Extracellular Matrix and Growth Factor Engineering for Controlled Angiogenesis in Regenerative Medicine. Frontiers in Bioengineering and Biotechnology, 2015, 3, 45.	2.0	159
70	6-Thioguanine-loaded polymeric micelles deplete myeloid-derived suppressor cells and enhance the efficacy of T cell immunotherapy in tumor-bearing mice. Cancer Immunology, Immunotherapy, 2015, 64, 1033-1046.	2.0	56
71	Prescription for a pharmacyte. Science Translational Medicine, 2015, 7, 291fs23.	5.8	2
72	Molecularly Engineered Selfâ€Assembling Membranes for Cellâ€Mediated Degradation. Advanced Healthcare Materials, 2015, 4, 602-612.	3.9	20

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73	Extracellular Matrix-Inspired Growth Factor Delivery Systems for Skin Wound Healing. Advances in Wound Care, 2015, 4, 479-489.	2.6	187
74	Culture of preantral follicles in poly(ethylene) glycolâ€based, threeâ€dimensional hydrogel: a relationship between swelling ratio and follicular developments. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 319-323.	1.3	19
75	Improved biocompatibility of polyethylenimine (PEI) as a gene carrier by conjugating urocanic acid: In vitro and in vivo. Macromolecular Research, 2015, 23, 387-395.	1.0	21
76	Crystalline Oligo(ethylene sulfide) Domains Define Highly Stable Supramolecular Block Copolymer Assemblies. ACS Nano, 2015, 9, 6872-6881.	7.3	35
77	Engineering antigen-specific immunological tolerance. Current Opinion in Immunology, 2015, 35, 80-88.	2.4	31
78	Tubular Compressed Collagen Scaffolds for Ureteral Tissue Engineering in a Flow Bioreactor System. Tissue Engineering - Part A, 2015, 21, 2334-2345.	1.6	15
79	Murine ovarian follicle culture in PEG-hydrogel: Effects of mechanical properties and the hormones FSH and LH on development. Macromolecular Research, 2015, 23, 377-386.	1.0	9
80	Extracellular matrix-inspired growth factor delivery systems for bone regeneration. Advanced Drug Delivery Reviews, 2015, 94, 41-52.	6.6	214
81	The TLR4 Agonist Fibronectin Extra Domain A is Cryptic, Exposed by Elastase-2; use in a fibrin matrix cancer vaccine. Scientific Reports, 2015, 5, 8569.	1.6	43
82	Fibrin gels engineered with proâ€angiogenic growth factors promote engraftment of pancreatic islets in extrahepatic sites in mice. Biotechnology and Bioengineering, 2015, 112, 1916-1926.	1.7	56
83	Kinetics of Ultrasonic Drug Delivery from Targeted Micelles. Journal of Nanoscience and Nanotechnology, 2015, 15, 2099-2104.	0.9	21
84	Clonal, Self-Renewing and Differentiating Human and Porcine Urothelial Cells, a Novel Stem Cell Population. PLoS ONE, 2014, 9, e90006.	1.1	21
85	Controlled Release Strategies in Tissue Engineering. , 2014, , 347-392.		1
86	Device design and materials optimization of conformal coating for islets of Langerhans. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10514-10519.	3.3	167
87	Characterization of the Network Structure of <scp>PEG</scp> Diacrylate Hydrogels Formed in the Presence of Nâ€Vinyl Pyrrolidone. Macromolecular Reaction Engineering, 2014, 8, 314-328.	0.9	21
88	Matrix Effects. , 2014, , 407-421.		2
89	Vesicle photonics in biology with a focus on single cell analysis. , 2014, , .		0
90	Growth Factors Engineered for Super-Affinity to the Extracellular Matrix Enhance Tissue Healing. Science, 2014, 343, 885-888.	6.0	406

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91	Overcoming immunological barriers in regenerative medicine. Nature Biotechnology, 2014, 32, 786-794.	9.4	118
92	Enhancing Efficacy of Anticancer Vaccines by Targeted Delivery to Tumor-Draining Lymph Nodes. Cancer Immunology Research, 2014, 2, 436-447.	1.6	165
93	Long-lasting fibrin matrices ensure stable and functional angiogenesis by highly tunable, sustained delivery of recombinant VEGF ₁₆₄. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6952-6957.	3.3	136
94	Cytoplasmic Stopped Flow at the Single Cell Level Based on Photosensitive Polymersomes. Biophysical Journal, 2014, 106, 420a.	0.2	0
95	Targeting the tumor-draining lymph node with adjuvanted nanoparticles reshapes the anti-tumor immune response. Biomaterials, 2014, 35, 814-824.	5.7	256
96	Bioluminescent and micro-computed tomography imaging of bone repair induced by fibrin-binding growth factors. Acta Biomaterialia, 2014, 10, 4377-4389.	4.1	21
97	Preparation of Well-Defined Ibuprofen Prodrug Micelles by RAFT Polymerization. Biomacromolecules, 2013, 14, 3314-3320.	2.6	29
98	Surface-Immobilized Biomolecules. , 2013, , 339-349.		7
99	Investigating the acoustic release of doxorubicin from targeted micelles. Colloids and Surfaces B: Biointerfaces, 2013, 101, 153-155.	2.5	47
100	VEGFR-3 Neutralization Inhibits Ovarian Lymphangiogenesis, Follicle Maturation, and Murine Pregnancy. American Journal of Pathology, 2013, 183, 1596-1607.	1.9	22
101	Tissue, cell and engineering. Current Opinion in Biotechnology, 2013, 24, 827-829.	3.3	9
102	Translating materials design to the clinic. Nature Materials, 2013, 12, 963-966.	13.3	96
103	In situ cell manipulation through enzymatic hydrogel photopatterning. Nature Materials, 2013, 12, 1072-1078.	13.3	282
104	Engineering antigens for in situ erythrocyte binding induces T-cell deletion. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E60-8.	3.3	167
105	Improving the osteogenic potential of BMP-2 with hyaluronic acid hydrogel modified with integrin-specific fibronectin fragment. Biomaterials, 2013, 34, 704-712.	5.7	102
106	The promotion of endothelial cell attachment and spreading using FNIII10 fused to VEGF-A165. Biomaterials, 2013, 34, 5958-5968.	5.7	39
107	Tunable T cell immunity towards a protein antigen using polymersomes vs. solid-core nanoparticles. Biomaterials, 2013, 34, 4339-4346.	5.7	116
108	A high-throughput nanoimmunoassay chip applied to large-scale vaccine adjuvant screening. Integrative Biology (United Kingdom), 2013, 5, 650-658.	0.6	46

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109	Silk Hydrogels as Soft Substrates for Neural Tissue Engineering. Advanced Functional Materials, 2013, 23, 5140-5149.	7.8	157
110	Vesicle Photonics. Annual Review of Materials Research, 2013, 43, 283-305.	4.3	23
111	A feeder-free, defined three-dimensional polyethylene glycol-based extracellular matrix niche for culture of human embryonic stem cells. Biomaterials, 2013, 34, 3571-3580.	5.7	38
112	Engineering the Regenerative Microenvironment with Biomaterials. Advanced Healthcare Materials, 2013, 2, 57-71.	3.9	329
113	Nanoparticle conjugation of CpG enhances adjuvancy for cellular immunity and memory recall at low dose. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19902-19907.	3.3	223
114	Heparin-binding domain of fibrin(ogen) binds growth factors and promotes tissue repair when incorporated within a synthetic matrix. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4563-4568.	3.3	401
115	Proteolytic Processing Regulates Placental Growth Factor Activities. Journal of Biological Chemistry, 2013, 288, 17976-17989.	1.6	16
116	Proangiogenic Hydrogels Within Macroporous Scaffolds Enhance Islet Engraftment in an Extrahepatic Site. Tissue Engineering - Part A, 2013, 19, 2544-2552.	1.6	69
117	Peripherally Administered Nanoparticles Target Monocytic Myeloid Cells, Secondary Lymphoid Organs and Tumors in Mice. PLoS ONE, 2013, 8, e61646.	1.1	116
118	Tenascin C Promiscuously Binds Growth Factors via Its Fifth Fibronectin Type III-Like Domain. PLoS ONE, 2013, 8, e62076.	1.1	108
119	Fibronectin Binding Modulates CXCL11 Activity and Facilitates Wound Healing. PLoS ONE, 2013, 8, e79610.	1.1	26
120	Embryonic Stem Cell-Based Cardiopatches Improve Cardiac Function in Infarcted Rats. Stem Cells Translational Medicine, 2012, 1, 248-260.	1.6	32
121	Nanoparticle size influences the magnitude and quality of mucosal immune responses after intranasal immunization. Vaccine, 2012, 30, 7541-7546.	1.7	65
122	Reduction-Sensitive Tioguanine Prodrug Micelles. Molecular Pharmaceutics, 2012, 9, 2812-2818.	2.3	27
123	Engineering Approaches to Immunotherapy. Science Translational Medicine, 2012, 4, 148rv9.	5.8	194
124	Size- and charge-dependent non-specific uptake of PEGylated nanoparticles by macrophages. International Journal of Nanomedicine, 2012, 7, 799.	3.3	126
125	In-vivo performance of high-density collagen gel tubes for urethral regeneration in a rabbit model. Biomaterials, 2012, 33, 7447-7455.	5.7	49
126	Precision Intracellular Delivery Based on Optofluidic Polymersome Rupture. ACS Nano, 2012, 6, 7850-7857.	7.3	101

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127	Long-term maintenance of mouse embryonic stem cell pluripotency by manipulating integrin signaling within 3D scaffolds without active Stat3. Biomaterials, 2012, 33, 8934-8942.	5.7	32
128	Polymer micelles with pyridyl disulfide-coupled antigen travel through lymphatics and show enhanced cellular responses following immunization. Acta Biomaterialia, 2012, 8, 3210-3217.	4.1	35
129	Nanomaterials for Drug Delivery. Science, 2012, 337, 303-305.	6.0	465
130	Drug development: longer-lived proteins. Chemical Society Reviews, 2012, 41, 2686.	18.7	59
131	Engineered insulin-like growth factor-1 for improved smooth muscle regeneration. Biomaterials, 2012, 33, 494-503.	5.7	40
132	Dendritic cell activation and T cell priming with adjuvant- and antigen-loaded oxidation-sensitive polymersomes. Biomaterials, 2012, 33, 6211-6219.	5.7	206
133	Sorting Live Stem Cells Based on Sox2 mRNA Expression. PLoS ONE, 2012, 7, e49874.	1.1	24
134	Biocompatible dispersions of carbon nanotubes: a potential tool for intracellular transport of anticancer drugs. Nanoscale, 2011, 3, 925-928.	2.8	47
135	Nanoparticle conjugation of antigen enhances cytotoxic T-cell responses in pulmonary vaccination. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E989-97.	3.3	160
136	Engineering the Growth Factor Microenvironment with Fibronectin Domains to Promote Wound and Bone Tissue Healing. Science Translational Medicine, 2011, 3, 100ra89.	5.8	391
137	PPS nanoparticles as versatile delivery system to induce systemic and broad mucosal immunity after intranasal administration. Vaccine, 2011, 29, 804-812.	1.7	64
138	Nanoparticle conjugation and pulmonary delivery enhance the protective efficacy of Ag85B and CpG against tuberculosis. Vaccine, 2011, 29, 6959-6966.	1.7	107
139	Analytical ultracentrifugation to support the development of biomaterials and biomedical devices. Methods, 2011, 54, 92-100.	1.9	10
140	Extracellular matrix in angiogenesis: dynamic structures with translational potential. Experimental Dermatology, 2011, 20, 605-613.	1.4	55
141	Nano-sized drug-loaded micelles deliver payload to lymph node immune cells and prolong allograft survival. Journal of Controlled Release, 2011, 156, 154-160.	4.8	90
142	PEG-b-PPS-b-PEI micelles and PEG-b-PPS/PEG-b-PPS-b-PEI mixed micelles as non-viral vectors for plasmid DNA: Tumor immunotoxicity in B16F10 melanoma. Biomaterials, 2011, 32, 9839-9847.	5.7	30
143	Engineering complement activation on polypropylene sulfide vaccine nanoparticles. Biomaterials, 2011, 32, 2194-2203.	5.7	120
144	Enzymatic- and temperature-sensitive controlled release of ultrasmall superparamagnetic iron oxides (USPIOs). Journal of Nanobiotechnology, 2011, 9, 7.	4.2	21

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145	Engineered aprotinin for improved stability of fibrin biomaterials. Biomaterials, 2011, 32, 430-438.	5.7	81
146	SPARC-derived protease substrates to enhance the plasmin sensitivity of molecularly engineered PEG hydrogels. Biomaterials, 2011, 32, 1301-1310.	5.7	84
147	High-density collagen gel tubes as a matrix for primary human bladder smooth muscle cells. Biomaterials, 2011, 32, 1543-1548.	5.7	49
148	A collagen-poly(lactic acid-co-É›-caprolactone) hybrid scaffold for bladder tissue regeneration. Biomaterials, 2011, 32, 3969-3976.	5.7	92
149	Human embryonic stem cell-derived microvascular grafts for cardiac tissue preservation after myocardial infarction. Biomaterials, 2011, 32, 1102-1109.	5.7	139
150	Biomimetic PEG hydrogels crosslinked with minimal plasminâ€sensitive triâ€amino acid peptides. Journal of Biomedical Materials Research - Part A, 2010, 93A, 870-877.	2.1	27
151	The effect of matrix characteristics on fibroblast proliferation in 3D gels. Biomaterials, 2010, 31, 8454-8464.	5.7	271
152	Controlled release nanoparticle-embedded coatings reduce the tissue reaction to neuroprostheses. Journal of Controlled Release, 2010, 145, 196-202.	4.8	75
153	In vitro uptake of amphiphilic, hydrogel nanoparticles by J774A.1 cells. Journal of Biomedical Materials Research - Part A, 2010, 93A, 1557-1565.	2.1	9
154	A Facile Strategy for the Modification of Polyethylene Substrates with Nonâ€Fouling, Bioactive Poly(poly(ethylene glycol) methacrylate) Brushes. Macromolecular Bioscience, 2010, 10, 101-108.	2.1	47
155	Engineering integrin signaling for promoting embryonic stem cell self-renewal in a precisely defined niche. Biomaterials, 2010, 31, 1219-1226.	5.7	127
156	Enhanced proteolytic degradation of molecularly engineered PEG hydrogels in response to MMP-1 and MMP-2. Biomaterials, 2010, 31, 7836-7845.	5.7	463
157	In vivo study of an injectable poly(acrylonitrile)-based hydrogel paste as a bulking agent for the treatment of urinary incontinence. Biomaterials, 2010, 31, 4613-4619.	5.7	11
158	Biomimetic materials in tissue engineering. Materials Today, 2010, 13, 14-22.	8.3	251
159	Compressed collagen gel: a novel scaffold for human bladder cells. Journal of Tissue Engineering and Regenerative Medicine, 2010, 4, 123-130.	1.3	51
160	Longer-lived proteins. Nature, 2010, 467, 1051-1052.	13.7	6
161	The 12thâ€“14th type III repeats of fibronectin function as a highly promiscuous growth factorâ€binding domain. FASEB Journal, 2010, 24, 4711-4721.	0.2	16
162	The 12thâ€“14th type III repeats of fibronectin function as a highly promiscuous growth factor-binding domain. FASEB Journal, 2010, 24, 4711-4721.	0.2	259

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163	Surface optofluidics. , 2010, , .		0
164	Microfluidic Assays for DNA Manipulation Based on a Block Copolymer Immobilization Strategy. Biomacromolecules, 2010, 11, 827-831.	2.6	17
165	Dynamic Perspective on the Function of Thermoresponsive Nanopores from in Situ AFM and ATR-IR Investigations. Langmuir, 2010, 26, 15356-15365.	1.6	15
166	Carbon Monoxide-Releasing Micelles for Immunotherapy. Journal of the American Chemical Society, 2010, 132, 18273-18280.	6.6	191
167	Antigen delivery to dendritic cells by poly(propylene sulfide) nanoparticles with disulfide conjugated peptides: Cross-presentation and T cell activation. Vaccine, 2010, 28, 7897-7906.	1.7	199
168	Assessing the Role of Poly(ethylene glycol-bl-propylene sulfide) (PEG-PPS) Block Copolymers in the Preparation of Carbon Nanotube Biocompatible Dispersions. Macromolecules, 2010, 43, 3429-3437.	2.2	29
169	Synthesis of Pyridyl Disulfide-Functionalized Nanoparticles for Conjugating Thiol-Containing Small Molecules, Peptides, and Proteins. Bioconjugate Chemistry, 2010, 21, 653-662.	1.8	90
170	Improving Protein Pharmacokinetics by Engineering Erythrocyte Affinity. Molecular Pharmaceutics, 2010, 7, 2141-2147.	2.3	36
171	Chemical tethering of motile bacteria to silicon surfaces. BioTechniques, 2009, 46, 209-216.	0.8	25
172	Fabrication of nanopore arrays and ultrathin silicon nitride membranes by block-copolymer-assisted lithography. Nanotechnology, 2009, 20, 485303.	1.3	26
173	Porphyrin-based Photocatalytic Nanolithography. Molecular and Cellular Proteomics, 2009, 8, 1823-1831.	2.5	8
174	Extracellular matrix binding mixed micelles for drug delivery applications. Journal of Controlled Release, 2009, 137, 146-151.	4.8	36
175	Controlling integrin specificity and stem cell differentiation in 2D and 3D environments through regulation of fibronectin domain stability. Biomaterials, 2009, 30, 1089-1097.	5.7	300
176	Cell-responsive hydrogel for encapsulation of vascular cells. Biomaterials, 2009, 30, 4318-4324.	5.7	125
177	Materials engineering for immunomodulation. Nature, 2009, 462, 449-460.	13.7	493
178	Bone healing induced by local delivery of an engineered parathyroid hormone prodrug. Biomaterials, 2009, 30, 1763-1771.	5.7	93
179	Tailoring hydrogel degradation and drug release via neighboring amino acid controlled esterhydrolysis. Soft Matter, 2009, 5, 440-446.	1.2	66
180	Micelles for Delivery of Nitric Oxide. Journal of the American Chemical Society, 2009, 131, 14413-14418.	6.6	85

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181	A Novel Method for the Encapsulation of Biomolecules into Polymersomes via Direct Hydration. Langmuir, 2009, 25, 9025-9029.	1.6	93
182	Phototocatalytic Lithography of Poly(propylene sulfide) Block Copolymers: Toward High-Throughput Nanolithography for Biomolecular Arraying Applications. Langmuir, 2009, 25, 1238-1244.	1.6	15
183	Aggregation Behavior of Poly(ethylene glycol-bl-propylene sulfide) Di- and Triblock Copolymers in Aqueous Solution. Langmuir, 2009, 25, 11328-11335.	1.6	76
184	Integration column: Biofunctional polymeric nanoparticles for spatio-temporal control of drug delivery and biomedical applications. Integrative Biology (United Kingdom), 2009, 1, 446.	0.6	12
185	Surface Nanopatterning by Polymer Self-Assembly: from Applied Research to Industrial Applications. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2009, 22, 223-228.	0.1	4
186	Zellen. , 2009, , 129-153.		0
187	Bioluminescence imaging of calvarial bone repair using bone marrow and adipose tissue-derived mesenchymal stem cells. Biomaterials, 2008, 29, 427-437.	5.7	80
188	Micropatterning of gold substrates based on poly(propylene sulfide-bl-ethylene glycol), (PPSâ€“PEG) background passivation and the molecular-assembly patterning by lift-off (MAPL) technique. Surface Science, 2008, 602, 2305-2310.	0.8	15
189	Part I: A novel in-vitro system for simultaneous mechanical stimulation and time-lapse microscopy in 3D. Biomechanics and Modeling in Mechanobiology, 2008, 7, 203-214.	1.4	10
190	Part II: Fibroblasts preferentially migrate in the direction of principal strain. Biomechanics and Modeling in Mechanobiology, 2008, 7, 215-225.	1.4	37
191	Breakdown kinetics of aggregates from poly(ethylene glycolâ€blâ€propylene sulfide) diâ€and triblock copolymers induced by a nonâ€ionic surfactant. Journal of Polymer Science Part A, 2008, 46, 2477-2487.	2.5	9
192	Superparamagnetic Nanoparticles as a Powerful Systems Biology Characterization Tool in the Physiological Context. Angewandte Chemie - International Edition, 2008, 47, 7857-7860.	7.2	37
193	The effect of enzymatically degradable poly(ethylene glycol) hydrogels on smooth muscle cell phenotype. Biomaterials, 2008, 29, 314-326.	5.7	129
194	Functionalization of polysulfide nanoparticles and their performance as circulating carriers. Biomaterials, 2008, 29, 1958-1966.	5.7	44
195	Three-dimensional extracellular matrix-directed cardioprogenitor differentiation: Systematic modulation of a synthetic cell-responsive PEG-hydrogel. Biomaterials, 2008, 29, 2757-2766.	5.7	294
196	The role of actively released fibrin-conjugated VEGF for VEGF receptor 2 gene activation and the enhancement of angiogenesis. Biomaterials, 2008, 29, 1720-1729.	5.7	130
197	Biofunctional polymer nanoparticles for intra-articular targeting and retention inÂcartilage. Nature Materials, 2008, 7, 248-254.	13.3	292
198	Physiology in microfluidics. Nature Materials, 2008, 7, 609-610.	13.3	8

#	Article	IF	Citations
199	Dielectrophoresis-based particle exchanger for the manipulation and surface functionalization of particles. Lab on A Chip, 2008, 8, 267-273.	3.1	58
200	RAFT Homo- and Copolymerization of N-Acryloyl-morpholine, Piperidine, and Azocane and Their Self-Assembled Structures. Macromolecules, 2008, 41, 1140-1150.	2.2	58
201	PEG-b-PPS Diblock Copolymer Aggregates for Hydrophobic Drug Solubilization and Release: Cyclosporin A as an Example. Molecular Pharmaceutics, 2008, 5, 632-642.	2.3	87
202	Lymphatic drainage function and its immunological implications: From dendritic cell homing to vaccine design. Seminars in Immunology, 2008, 20, 147-156.	2.7	126
203	Artificial extracellular matrices for bone tissue engineering. Bone, 2008, 42, S72.	1.4	11
204	Porphyrin-Based Photocatalytic Lithography. Langmuir, 2008, 24, 5179-5184.	1.6	18
205	Synthetic Biomaterials as Cell-Responsive Artificial Extracellular Matrices. , 2008, , 255-278.		0
206	Controlled release strategies in tissue engineering. , 2008, , 455-482.		2
207	Matrix Effects. , 2007, , 297-308.		3
208	Controlled Release Drug Coatings on Flexible Neural Probes. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6613-6.	0.5	2
209	The Effect of Biodegradable Drug Release Coatings on the Electrical Characteristics of Neural Electrodes. , 2007, , .		2
210	RNA Interference Targeting Hypoxia Inducible Factor 1Î± Reduces Post-Operative Adhesions in Rats. Journal of Surgical Research, 2007, 141, 162-170.	0.8	42
211	Synthesis and in Vitro Characterization of an ABC Triblock Copolymer for siRNA Delivery. Bioconjugate Chemistry, 2007, 18, 736-745.	1.8	67
212	Biomolecular Hydrogels Formed and Degraded via Site-Specific Enzymatic Reactions. Biomacromolecules, 2007, 8, 3000-3007.	2.6	264
213	PEG-SS-PPS:Â Reduction-Sensitive Disulfide Block Copolymer Vesicles for Intracellular Drug Delivery. Biomacromolecules, 2007, 8, 1966-1972.	2.6	418
214	Mechanisms of 3-D migration and matrix remodeling of fibroblasts within artificial ECMs. Acta Biomaterialia, 2007, 3, 615-629.	4.1	94
215	Analysis of progenitor cellâ€“scaffold combinations by in vivo non-invasive photonic imaging. Biomaterials, 2007, 28, 2718-2728.	5.7	28
216	Exploiting lymphatic transport and complement activation in nanoparticle vaccines. Nature Biotechnology, 2007, 25, 1159-1164.	9.4	1,142

#	Article	IF	Citations
217	Enhanced intimal thickening of expanded polytetrafluoroethylene grafts coated with fibrin or fibrin-releasing vascular endothelial growth factor in the pig carotid artery interposition model. Journal of Thoracic and Cardiovascular Surgery, 2007, 133, 1163-1170.	0.4	60
218	Enzymatic formation of modular cell-instructive fibrin analogs for tissue engineering. Biomaterials, 2007, 28, 3856-3866.	5.7	203
219	Matrix-bound growth factors in tissue repair. Swiss Medical Weekly, 2007, 137 Suppl 155, 72S-76S.	0.8	1
220	Recombinant Protein-co-PEG Networks as Cell-Adhesive and Proteolytically Degradable Hydrogel Matrixes. Part II:Â Biofunctional Characteristics. Biomacromolecules, 2006, 7, 3019-3029.	2.6	176
221	Thermally-induced glass formation from hydrogel nanoparticles. Soft Matter, 2006, 2, 1067.	1.2	24
222	Targeting dendritic cells with biomaterials: developing the next generation of vaccines. Trends in Immunology, 2006, 27, 573-579.	2.9	390
223	Photopolymerized hyaluronic acid-based hydrogels and interpenetrating networks. , 2006, , 203-210.		3
224	Non-viral gene delivery: Multifunctional polyplexes as locally triggerable nonviral vectors. Gene Therapy, 2006, 13, 1371-1372.	2.3	9
225	Pattern stability under cell culture conditionsâ€"A comparative study of patterning methods based on PLL-g-PEG background passivation. Biomaterials, 2006, 27, 2534-2541.	5.7	89
226	Doxorubicin encapsulation and diffusional release from stable, polymeric, hydrogel nanoparticles. European Journal of Pharmaceutical Sciences, 2006, 29, 120-129.	1.9	179
227	In vivo targeting of dendritic cells in lymph nodes with poly(propylene sulfide) nanoparticles. Journal of Controlled Release, 2006, 112, 26-34.	4.8	605
228	Activation of cell-survival transcription factor NFÎºB in L1Ig6-stimulated endothelial cells. Journal of Biomedical Materials Research - Part A, 2006, 77A, 542-550.	2.1	11
229	Peptide-matrix-mediated gene transfer of an oxygen-insensitive hypoxia-inducible factor-1Â variant for local induction of angiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2506-2511.	3.3	129
230	Biomimetic materials for injectable tissue engineering: studies of acute, lasting and unexpected angiogenesis response. FASEB Journal, 2006, 20, A20.	0.2	0
231	PPS-PEG Surface Coating to Reduce Thrombogenicity of Small Diameter ePTFE Vascular Grafts. International Journal of Artificial Organs, 2005, 28, 993-1002.	0.7	30
232	Poly (4-vinylimidazole) as nonviral gene carrier: in vitro and in vivo transfection. Acta Biomaterialia, 2005, 1, 165-172.	4.1	27
233	Discovery of a sulfated tetrapeptide that binds to vascular endothelial growth factor. Acta Biomaterialia, 2005, 1, 451-459.	4.1	73
234	Mechanical properties, proteolytic degradability and biological modifications affect angiogenic process extension into native and modified fibrin matrices in vitro. Biomaterials, 2005, 26, 1369-1379.	5.7	85

#	Article	IF	Citations
235	Sustained release of human growth hormone from in situ forming hydrogels using self-assembly of fluoroalkyl-ended poly(ethylene glycol). Biomaterials, 2005, 26, 5259-5266.	5.7	73
236	Enhanced Endothelial Cell Retention on Shear-Stressed Synthetic Vascular Grafts Precoated with RGD-Cross-Linked Fibrin. Tissue Engineering, 2005, 11, 887-895.	4.9	76
237	Synthetic biomaterials as instructive extracellular microenvironments for morphogenesis in tissue engineering. Nature Biotechnology, 2005, 23, 47-55.	9.4	4,068
238	Enhancement of bone healing using non-glycosylated rhBMP-2 released from a fibrin matrix in dogs and cats. Journal of Small Animal Practice, 2005, 46, 17-21.	0.5	22
239	Endothelial cell proliferation and progenitor maturation by fibrin-bound VEGF variants with differential susceptibilities to local cellular activity. Journal of Controlled Release, 2005, 101, 93-109.	4.8	163
240	Non-viral gene delivery for local and controlled DNA release. Journal of Controlled Release, 2005, 102, 263-275.	4.8	93
241	Poly(ethylene glycol) hydrogels formed by conjugate addition with controllable swelling, degradation, and release of pharmaceutically active proteins. Journal of Controlled Release, 2005, 102, 619-627.	4.8	181
242	Neurite extension andin vitro myelination within three-dimensional modified fibrin matrices. Journal of Neurobiology, 2005, 63, 1-14.	3.7	90
243	Bone repair with a form of BMP-2 engineered for incorporation into fibrin cell ingrowth matrices. Biotechnology and Bioengineering, 2005, 89, 253-262.	1.7	159
244	3D morphology of cell cultures: A quantitative approach using micrometer synchrotron light tomography. Microscopy Research and Technique, 2005, 66, 289-298.	1.2	32
245	Modified Fibrin Hydrogels stimulate Angiogenesisin vivo: potential Application to increase Perfusion of Ischemic Tissues. Materialwissenschaft Und Werkstofftechnik, 2005, 36, 768-774.	0.5	5
246	The selective modulation of endothelial cell mobility on RGD peptide containing surfaces by YIGSR peptides. Biomaterials, 2005, 26, 167-174.	5.7	190
247	Biointerface Science. MRS Bulletin, 2005, 30, 175-179.	1.7	33
248	Effects of Protein and Gene Transfer of the Angiopoietin-1 Fibrinogen-like Receptor-binding Domain on Endothelial and Vessel Organization. Journal of Biological Chemistry, 2005, 280, 22445-22453.	1.6	40
249	Amphiphilic Hydrogel Nanoparticles. Preparation, Characterization, and Preliminary Assessment as New Colloidal Drug Carriers. Langmuir, 2005, 21, 2605-2613.	1.6	111
250	Network Formation and Degradation Behavior of Hydrogels Formed by Michael-Type Addition Reactions. Biomacromolecules, 2005, 6, 290-301.	2.6	301
251	Oxidation-Sensitive Polymeric Nanoparticles. Langmuir, 2005, 21, 411-417.	1.6	147
252	Influence of Poly(propylene sulfide-block-ethylene glycol) Di- and Triblock Copolymer Architecture on the Formation of Molecular Adlayers on Gold Surfaces and Their Effect on Protein Resistance:â€‰ A Candidate for Surface Modification in Biosensor Research. Macromolecules, 2005, 38, 10503-10510.	2.2	72

#	Article	IF	Citations
253	Recombinant Protein-co-PEG Networks as Cell-Adhesive and Proteolytically Degradable Hydrogel Matrixes. Part I:Â Development and Physicochemical Characteristics. Biomacromolecules, 2005, 6, 1226-1238.	2.6	185
254	Glucose sensitivity through oxidation responsiveness. An example of cascade-responsive nano-sensors. Journal of Materials Chemistry, 2005, 15, 4006.	6.7	45
255	Interfacial Reactivity of Block Copolymers:Â Understanding the Amphiphile-to-Hydrophile Transition. Langmuir, 2005, 21, 9149-9153.	1.6	26
256	Molecularly Engineered PEG Hydrogels: A Novel Model System for Proteolytically Mediated Cell Migration. Biophysical Journal, 2005, 89, 1374-1388.	0.2	509
257	Selective molecular assembly patterning at the nanoscale: a novel platform for producing protein patterns by electron-beam lithography on SiO2/indium tin oxide-coated glass substrates. Nanotechnology, 2005, 16, 1781-1786.	1.3	46
258	Thermodynamic and Kinetic Effects in the Aggregation Behavior of a Poly(ethylene glycol-b-propylene) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.2	50
259	Tomography studies of biological cells on polymer scaffolds. Journal of Physics Condensed Matter, 2004, 16, S3499-S3510.	0.7	10
260	Cell-Demanded Liberation of VEGF121From Fibrin Implants Induces Local and Controlled Blood Vessel Growth. Circulation Research, 2004, 94, 1124-1132.	2.0	355
261	Treatment of Nonunions with Nonglycosylated Recombinant Human Bone Morphogenetic Protein-2 Delivered from aFibrinMatrix. Veterinary Surgery, 2004, 33, 112-118.	0.5	40
262	Bone healing in the rat and dog with nonglycosylated BMP-2 demonstrating low solubility in fibrin matrices. Journal of Orthopaedic Research, 2004, 22, 376-381.	1.2	106
263	Biomaterials science and high-throughput screening. Nature Biotechnology, 2004, 22, 828-829.	9.4	45
264	Oxidation-responsive polymeric vesicles. Nature Materials, 2004, 3, 183-189.	13.3	798
265	The effect of the linker on the hydrolysis rate of drug-linked ester bonds. Journal of Controlled Release, 2004, 95, 291-300.	4.8	162
266	Heterophilic interactions between cell adhesion molecule L1 and ?v ?3-integrin induce HUVEC process extension in vitro and angiogenesis in vivo. Angiogenesis, 2004, 7, 213-223.	3.7	38
267	Towards a fully-synthetic substitute of alginate: development of a new process using thermal gelation and chemical cross-linking. Biomaterials, 2004, 25, 5115-5124.	5.7	113
268	Synthetic extracellular matrices for in situ tissue engineering. Biotechnology and Bioengineering, 2004, 86, 27-36.	1.7	213
269	Towards a fully synthetic substitute of alginate: Optimization of a thermal gelation/chemical cross-linking scheme (?tandem? gelation) for the production of beads and liquid-core capsules. Biotechnology and Bioengineering, 2004, 88, 740-749.	1.7	50
270	RGD-containing peptide GCRGYGRGDSPG reduces enhancement of osteoblast differentiation by poly(L-lysine)-graft-poly(ethylene glycol)-coated titanium surfaces. Journal of Biomedical Materials Research Part B, 2004, 68A, 458-472.	3.0	107

#	Article	IF	Citations
271	MMP-2 sensitive, VEGF-bearing bioactive hydrogels for promotion of vascular healing. Journal of Biomedical Materials Research Part B, 2004, 68A, 704-716.	3.0	271
272	Engineered fibrin matrices for functional display of cell membrane-bound growth factor-like activities: Study of angiogenic signaling by ephrin-B2. Biomaterials, 2004, 25, 3245-3257.	5.7	58
273	A novel generic platform for chemical patterning of surfaces. Progress in Surface Science, 2004, 76, 55-69.	3.8	49
274	Tissue and cell engineering. Current Opinion in Biotechnology, 2004, 15, 381-382.	3.3	20
275	Glucose-oxidase Based Self-Destructing Polymeric Vesicles. Langmuir, 2004, 20, 3487-3491.	1.6	228
276	Diffusion NMR Spectroscopy for the Characterization of the Size and Interactions of Colloidal Matter:â€‰ The Case of Vesicles and Nanoparticles. Journal of the American Chemical Society, 2004, 126, 2142-2147.	6.6	80
277	Matrix-bound sixth Ig-like domain of cell adhesion molecule L1 acts as an angiogenic factor by ligating Î±vÎ²3-integrin and activating VEGF-R2. Microvascular Research, 2004, 68, 169-178.	1.1	61
278	A hydrogel system for stimulus-responsive, oxygen-sensitive in situ gelation. Journal of Biomaterials Science, Polymer Edition, 2004, 15, 895-904.	1.9	42
279	Bovine Primary Chondrocyte Culture in Synthetic Matrix Metalloproteinase-Sensitive Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	4.9	192
280	Functional micro-imaging of soft and hard tissue using synchrotron light. , 2004, , .		4
281	Physical Properties and Biodegradation of Lactide-based Poly(ethy1ene glycol) Polymer Networks for Tissue Engineering. Polymer Bulletin, 2003, 50, 107-114.	1.7	11
282	Tomography studies of human foreskin fibroblasts on polymer yarns. Nuclear Instruments & Methods in Physics Research B, 2003, 200, 397-405.	0.6	24
283	Water-borne,in situcrosslinked biomaterials from phase-segregated precursors. Journal of Biomedical Materials Research - Part A, 2003, 64A, 447-456.	2.1	90
284	Cell-Responsive Synthetic Hydrogels. Advanced Materials, 2003, 15, 888-892.	11.1	486
285	Facile Hydrophilic Surface Modification of Poly(tetrafluoroethylene) Using Fluoroalkyl-Terminated Poly(ethylene glycol)s. Advanced Materials, 2003, 15, 66-69.	11.1	23
286	Electrochemical optical waveguide lightmode spectroscopy (EC-OWLS): A pilot study using evanescent-field optical sensing under voltage control to monitor polycationic polymer adsorption onto indium tin oxide (ITO)-coated waveguide chips. Biotechnology and Bioengineering, 2003, 82, 465-473.	1.7	69
287	RGD-grafted poly-l-lysine-graft-(polyethylene glycol) copolymers block non-specific protein adsorption while promoting cell adhesion. Biotechnology and Bioengineering, 2003, 82, 784-790.	1.7	301
288	Materials as morphogenetic guides in tissue engineering. Current Opinion in Biotechnology, 2003, 14, 551-558.	3.3	352

#	Article	IF	Citations
289	Tissue and cell engineering. Current Opinion in Biotechnology, 2003, 14, 517-519.	3.3	6
290	Photopolymerized hyaluronic acid-based hydrogels and interpenetrating networks. Biomaterials, 2003, 24, 893-900.	5.7	373
291	Peptide functionalized poly(l-lysine)-g-poly(ethylene glycol) on titanium: resistance to protein adsorption in full heparinized human blood plasma. Biomaterials, 2003, 24, 4949-4958.	5.7	189
292	Repair of bone defects using synthetic mimetics of collagenous extracellular matrices. Nature Biotechnology, 2003, 21, 513-518.	9.4	797
293	Chemisorbed poly(propylene sulphide)-based copolymers resist biomolecular interactions. Nature Materials, 2003, 2, 259-264.	13.3	214
294	Synthesis and Physicochemical Characterization of End-Linked Poly(ethylene glycol)-co-peptide Hydrogels Formed by Michael-Type Addition. Biomacromolecules, 2003, 4, 713-722.	2.6	639
295	Michael-Type Addition as a Tool for Surface Functionalization. Bioconjugate Chemistry, 2003, 14, 967-973.	1.8	60
296	Precise Determination of the Hydrophobic/Hydrophilic Junction in Polymeric Vesicles. Langmuir, 2003, 19, 4852-4855.	1.6	27
297	N-terminal Î±-dystroglycan binds to different extracellular matrix molecules expressed in regenerating peripheral nerves in a protein-mediated manner and promotes neurite extension of PC12 cells. Molecular and Cellular Neurosciences, 2003, 24, 1062-1073.	1.0	21
298	Evaluation of pH-dependent membrane-disruptive properties of poly(acrylic acid) derived polymers. European Journal of Pharmaceutics and Biopharmaceutics, 2003, 56, 237-246.	2.0	76
299	Biopolymeric delivery matrices for angiogenic growth factors. Cardiovascular Pathology, 2003, 12, 295-310.	0.7	321
300	Synthetic matrix metalloproteinase-sensitive hydrogels for the conduction of tissue regeneration: Engineering cell-invasion characteristics. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5413-5418.	3.3	1,331
301	MATERIALS SCIENCE: Enhancing Drug Function. Science, 2003, 300, 595-596.	6.0	181
302	Cellâ€demanded release of VEGF from synthetic, biointeractive cellâ€ingrowth matrices for vascularized tissue growth. FASEB Journal, 2003, 17, 2260-2262.	0.2	501
303	Lyotropic Behavior in Water of Amphiphilic ABA Triblock Copolymers Based on Poly(propylene sulfide) and Poly(ethylene glycol). Langmuir, 2002, 18, 8324-8329.	1.6	71
304	Anomalous Sorption in Thin Films of Fluoroalkyl-Ended Poly(ethylene glycol)s. Langmuir, 2002, 18, 8241-8245.	1.6	16
305	Biologically Engineered Protein-graft-Poly(ethylene glycol) Hydrogels:Â A Cell Adhesive and Plasmin-Degradable Biosynthetic Material for Tissue Repair. Biomacromolecules, 2002, 3, 710-723.	2.6	302
306	A New Living Emulsion Polymerization Mechanism:Â Episulfide Anionic Polymerization. Macromolecules, 2002, 35, 8688-8693.	2.2	75

#	Article	IF	Citations
307	Selective Molecular Assembly Patterning:Â A New Approach to Micro- and Nanochemical Patterning of Surfaces for Biological Applications. Langmuir, 2002, 18, 3281-3287.	1.6	151
308	Ordering Transitions of Fluoroalkyl-Ended Poly(ethylene glycol):â€‰ Rheology and SANS. Macromolecules, 2002, 35, 4448-4457.	2.2	58
309	Poly(ethylene glycol) block copolymers. Reviews in Molecular Biotechnology, 2002, 90, 3-15.	2.9	58
310	Photopolymerized hyaluronic acid-based hydrogels and interpenetrating networks. , 2002, , 203-210.		5
311	Materials for cell encapsulation via a new tandem approach combining reverse thermal gelation and covalent crosslinking. Macromolecular Chemistry and Physics, 2002, 203, 1466-1472.	1.1	83
312	Atom Transfer Radical Polymerization as a Tool for Surface Functionalization. Advanced Materials, 2002, 14, 1239-1241.	11.1	77
313	Sterically blocking adhesion of cells to biological surfaces with a surface-active copolymer containing poly(ethylene glycol) and phenylboronic acid. Journal of Biomedical Materials Research Part B, 2002, 59, 618-631.	3.0	46
314	Systematic Modulation of Michael-Type Reactivity of Thiols through the Use of Charged Amino Acids. Bioconjugate Chemistry, 2001, 12, 1051-1056.	1.8	334
315	New Synthetic Methodologies for Amphiphilic Multiblock Copolymers of Ethylene Glycol and Propylene Sulfide. Macromolecules, 2001, 34, 8913-8917.	2.2	137
316	Poly(l-lysine)-g-poly(ethylene glycol) Layers on Metal Oxide Surfaces:Â Surface-Analytical Characterization and Resistance to Serum and Fibrinogen Adsorption. Langmuir, 2001, 17, 489-498.	1.6	490
317	Development of growth factor fusion proteins for cellâ€triggered drug delivery. FASEB Journal, 2001, 15, 1300-1302.	0.2	171
318	Molecular Properties of Fibrin-Based Matrices for Promotion of Angiogenesis in Vitro. Microvascular Research, 2001, 62, 315-326.	1.1	83
319	Hydrogels with Controlled, Surface Erosion Characteristics from Self-Assembly of Fluoroalkyl-Ended Poly(ethylene glycol). Macromolecules, 2001, 34, 6409-6419.	2.2	56
320	Conjugate Addition Reactions Combined with Free-Radical Cross-Linking for the Design of Materials for Tissue Engineering. Biomacromolecules, 2001, 2, 430-441.	2.6	389
321	Fibronectin modulates macrophage adhesion and FBGC formation: The role of RGD, PHSRN, and PRRARV domains. Journal of Biomedical Materials Research Part B, 2001, 55, 79-88.	3.0	125
322	Covalently conjugated VEGFâ€“fibrin matrices for endothelialization. Journal of Controlled Release, 2001, 72, 101-113.	4.8	351
323	Protein delivery from materials formed by self-selective conjugate addition reactions. Journal of Controlled Release, 2001, 76, 11-25.	4.8	328
324	Title is missing!. Biomaterials, 2000, 21, 2213.	5.7	0

#	Article	IF	Citations
325	Enzymatic incorporation of bioactive peptides into fibrin matrices enhances neurite extension. Nature Biotechnology, 2000, 18, 415-419.	9.4	316
326	Controlled release of nerve growth factor from a heparin-containing fibrin-based cell ingrowth matrix. Journal of Controlled Release, 2000, 69, 149-158.	4.8	402
327	Intraarterial protein delivery via intimally-adherent bilayer hydrogels. Journal of Controlled Release, 2000, 64, 205-215.	4.8	87
328	Development of fibrin derivatives for controlled release of heparin-binding growth factors. Journal of Controlled Release, 2000, 65, 389-402.	4.8	537
329	Three-dimensional Migration of Neurites Is Mediated by Adhesion Site Density and Affinity. Journal of Biological Chemistry, 2000, 275, 6813-6818.	1.6	144
330	Fibrin gel as a three dimensional matrix in cardiovascular tissue engineering. European Journal of Cardio-thoracic Surgery, 2000, 17, 587-591.	0.6	379
331	Blocking Adhesion to Cell and Tissue Surfaces by the Chemisorption of a Poly-l-lysine-graft-(poly(ethylene glycol); phenylboronic acid) Copolymerâ€–. Biomacromolecules, 2000, 1, 523-533.	2.6	96
332	Force Measurements between Bacteria and Poly(ethylene glycol)-Coated Surfaces. Langmuir, 2000, 16, 9155-9158.	1.6	119
333	Poly(l-lysine)-g-Poly(ethylene glycol) Layers on Metal Oxide Surfaces:Â Attachment Mechanism and Effects of Polymer Architecture on Resistance to Protein Adsorptionâ€. Journal of Physical Chemistry B, 2000, 104, 3298-3309.	1.2	620
334	MATRIX EFFECTS. , 2000, , 237-250.		9
335	Incorporation of heparinâ€binding peptides into fibrin gels enhances neurite extension: an example of designer matrices in tissue engineering. FASEB Journal, 1999, 13, 2214-2224.	0.2	186
336	Rapid Induction of Functional and Morphological Continuity between Severed Ends of Mammalian or Earthworm Myelinated Axons. Journal of Neuroscience, 1999, 19, 2442-2454.	1.7	57
337	Bioactive biomaterials. Current Opinion in Biotechnology, 1999, 10, 123-129.	3.3	470
338	A new-for-old urinary bladder. Nature, 1999, 398, 198-199.	13.7	2
339	Protein-mediated macrophage adhesion and activation on biomaterials: a model for modulating cell behavior. Journal of Materials Science: Materials in Medicine, 1999, 10, 601-605.	1.7	63
340	Thin Polymer Layers Formed by Polyelectrolyte Multilayer Techniques on Biological Surfaces. Langmuir, 1999, 15, 5355-5362.	1.6	427
341	Cross-Linking Exogenous Bifunctional Peptides into Fibrin Gels with Factor XIIIa. Bioconjugate Chemistry, 1999, 10, 75-81.	1.8	287
342	Polymeric Biomaterials with Degradation Sites for Proteases Involved in Cell Migration. Macromolecules, 1999, 32, 241-244.	2.2	574

#	Article	IF	Citations
343	In Vitro and in Vivo Performance of Porcine Islets Encapsulated in Interfacially Photopolymerized Poly(Ethylene Glycol) Diacrylate Membranes. Cell Transplantation, 1999, 8, 293-306.	1.2	255
344	Surface Immobilization of Adhesion Ligands for Inv.... The Electrical Engineering Handbook, 1999, , .	0.2	0
345	A sensitivity study of the key parameters in the interfacial photopolymerization of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock		219
346	Murine macrophage behavior on peptide-grafted polyethyleneglycol-containing networks. Biotechnology and Bioengineering, 1998, 59, 2-9.	1.7	65
347	Incorporation of adhesion peptides into nonadhesive hydrogels useful for tissue resurfacing. , 1998, 39, 266-276.		792
348	Effects of fibrin micromorphology on neurite growth from dorsal root ganglia cultured in three-dimensional fibrin gels. , 1998, 40, 551-559.		76
349	Reduction of fibrous adhesion formation by a copolymer possessing an affinity for anionic surfaces. , 1998, 42, 55-65.		66
350	Characterization of permeability and network structure of interfacially photopolymerized poly(ethylene glycol) diacrylate hydrogels. Biomaterials, 1998, 19, 1287-1294.	5.7	553
351	Self-assembly and steric stabilization at heterogeneous, biological surfaces using adsorbing block copolymers. Chemistry and Biology, 1998, 5, 177-183.	6.2	124
352	Synthetic biodegradable polymers for tissue engineering and drug delivery. Current Opinion in Solid State and Materials Science, 1998, 3, 246-251.	5.6	96
353	Surface characteristics and biocompatibility of lactide-based poly(ethylene glycol) scaffolds for tissue engineering. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 667-680.	1.9	71
354	Chemical modification and photograft polymerization upon expanded poly(tetrafluoroethylene). Journal of Biomaterials Science, Polymer Edition, 1998, 9, 407-426.	1.9	20
355	Polymers for tissue engineering. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 405-406.	1.9	4
356	Murine macrophage behavior on peptide-grafted polyethyleneglycol-containing networks. , 1998, 59, 2.		2
357	Engineering the Cellular-Synthetic Substrate Interface. Journal of Vascular and Interventional Radiology, 1997, 8, 715-716.	0.2	1
358	Synthesis of Polymer Network Scaffolds from l-Lactide and Poly(ethylene glycol) and Their Interaction with Cells. Macromolecules, 1997, 30, 6077-6083.	2.2	161
359	Polymeric endoluminal gel paving: hydrogel systems for local barrier creation and site-specific drug delivery. Advanced Drug Delivery Reviews, 1997, 24, 11-30.	6.6	31
360	Surface modification of poly(tetrafluoroethylene)with benzophenone and sodium hydride by ultraviolet irradiation. Journal of Polymer Science Part A, 1997, 35, 1499-1514.	2.5	40

#	Article	IF	Citations
361	Photograft polymerization of acrylate monomers and macromonomers on photochemically reduced PTFE films. Journal of Polymer Science Part A, 1997, 35, 3467-3482.	2.5	24
362	Surface modification of poly(tetrafluoroethylene) with benzophenone and sodium hydride by ultraviolet irradiation. , 1997, 35, 1499.		1
363	Bioactive Polymers. , 1997, , 83-95.		8
364	Surface Treatments of Polymers for Biocompatibility. Annual Review of Materials Research, 1996, 26, 365-394.	5.5	479
365	Lactide-Based Poly(ethylene glycol) Polymer Networks for Scaffolds in Tissue Engineering. Macromolecules, 1996, 29, 5233-5235.	2.2	98
366	Adhesion Prevention with Ancrod Released via a Tissue-Adherent Hydrogel. Journal of Surgical Research, 1996, 61, 58-64.	0.8	70
367	Alkylated cellulosic membranes with enhanced albumin affinity: Influence of competing proteins. Journal of Biomaterials Science, Polymer Edition, 1996, 7, 563-575.	1.9	15
368	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. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 13188-13193.	3.3	118
369	Hydrogel systems for barriers and local drug delivery in the control of wound healing. Journal of Controlled Release, 1996, 39, 305-313.	4.8	122
370	Effects of fibrinolysis on neurite growth from dorsal root ganglia cultured in two- and three-dimensional fibrin gels. , 1996, 365, 380-391.		91
371	Platelet adhesion to polyurethane blended with polytetramethylene oxide. , 1996, 52, 81-88.		7
372	In SituMaterial Transformations in Tissue Engineering. MRS Bulletin, 1996, 21, 33-35.	1.7	29
373	Alkylation of cellulosic membranes results in reduced complement activation. Journal of Biomaterials Science, Polymer Edition, 1996, 7, 707-714.	1.9	7
374	Effects of fibrinolysis on neurite growth from dorsal root ganglia cultured in two- and three-dimensional fibrin gels. , 1996, 365, 380.		1
375	Control of Healing with Photopolymerizable Biodegradable Hydrogels. , 1996, , 179-182.		1
376	Classes of Materials Used in Medicine. , 1996, , 67-I.		1
377	Densely crosslinked polymer networks of poly(ethylene glycol) in trimethylolpropane triacrylate for cell-adhesion-resistant surfaces. Journal of Biomedical Materials Research Part B, 1995, 29, 207-215.	3.0	118
378	Biomaterials in Tissue Engineering. Nature Biotechnology, 1995, 13, 565-576.	9.4	773

#	Article	IF	Citations
379	Photopolymerized hydrogel materials for drug delivery applications. Reactive & Functional Polymers, 1995, 25, 139-147.	0.8	213
380	Analysis of phase mixing in aged polymer networks of poly(ethylene glycol) and poly(trimethylolpropane triacrylate). Polymer, 1995, 36, 883-885.	1.8	5
381	Comparison of covalently and physically cross-linked polyethylene glycol-based hydrogels for the prevention of postoperative adhesions in a rat model. Biomaterials, 1995, 16, 1153-1156.	5.7	62
382	Photo-crosslinked copolymers of 2-hydroxyethyl methacrylate, poly(ethylene glycol) tetra-acrylate and ethylene dimethacrylate for improving biocompatibility of biosensors. Biomaterials, 1995, 16, 389-396.	5.7	162
383	Polyimide-polyethylene glycol block copolymers: Synthesis, characterization, and initial evaluation as a biomaterial. Journal of Biomaterials Science, Polymer Edition, 1995, 6, 313-323.	1.9	12
384	Local Release of Fibrinolytic Agents for Adhesion Prevention. Journal of Surgical Research, 1995, 59, 759-763.	0.8	96
385	Phase-mixed poly(ethylene glycol)/poly(trimethylolpropane triacrylate) semi-interpenetrating polymer networks obtained by rapid network formation. Journal of Polymer Science Part A, 1994, 32, 2715-2725.	2.5	14
386	Polymer Networks with Grafted Cell Adhesion Peptides for Highly Biospecific Cell Adhesive Substrates. Analytical Biochemistry, 1994, 222, 380-388.	1.1	178
387	Optimization of photopolymerized bioerodible hydrogel properties for adhesion prevention. Journal of Biomedical Materials Research Part B, 1994, 28, 831-838.	3.0	176
388	Preface. Tissue engineering and cell therapies. Biotechnology and Bioengineering, 1994, 43, 541-541.	1.7	3
389	Multifunctional poly(ethylene glycol) semi-interpenetrating polymer networks as highly selective adhesive substrates for bioadhesive peptide grafting. Biotechnology and Bioengineering, 1994, 43, 772-780.	1.7	93
390	Modification of islet of langerhans surfaces with immunoprotective poly(ethylene glycol) coatings via interfacial photopolymerization. Biotechnology and Bioengineering, 1994, 44, 383-386.	1.7	74
391	Molecular weight dependence of calcification of polyethylene glycol hydrogels. Biomaterials, 1994, 15, 921-925.	5.7	38
392	Design, Characterization, and One-Point in vivo Calibration of a Subcutaneously Implanted Glucose Electrode. Analytical Chemistry, 1994, 66, 3131-3138.	3.2	103
393	Efficacy of a resorbable hydrogel barrier, oxidized regenerated cellulose, and hyaluronic acid in the prevention of ovarian adhesions in a rabbit model. Fertility and Sterility, 1994, 62, 630-634.	0.5	38
394	Inhibition of thrombosis and intimal thickening by in situ photopolymerization of thin hydrogel barriers.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 5967-5971.	3.3	207
395	Interfacial photopolymerization of poly(ethylene glycol)-based hydrogels upon alginate-poly(l-lysine) microcapsules for enhanced biocompatibility. Biomaterials, 1993, 14, 1008-1016.	5.7	144
396	Bioerodible hydrogels based on photopolymerized poly(ethylene glycol)-co-poly(.alpha.-hydroxy acid) diacrylate macromers. Macromolecules, 1993, 26, 581-587.	2.2	938

#	Article	IF	Citations
397	Rapid photopolymerization of immunoprotective gels in contact with cells and tissue. [Erratum to document cited in CA117(18):178203r]. Journal of the American Chemical Society, 1993, 115, 2548-2548.	6.6	2
398	Chapter 6 Materials selection. Cardiovascular Pathology, 1993, 2, 53-71.	0.7	44
399	Chapter 11 Pharmacologic modification of materials. Cardiovascular Pathology, 1993, 2, 121-127.	0.7	12
400	Rapid photopolymerization of immunoprotective gels in contact with cells and tissue. Journal of the American Chemical Society, 1992, 114, 8311-8312.	6.6	172
401	Surface-grafted Cell-binding Peptides in Tissue Engineering of the Vascular Graft. Annals of the New York Academy of Sciences, 1992, 665, 253-258.	1.8	55
402	Tissue engineering in the vascular graft. Cytotechnology, 1992, 10, 189-204.	0.7	23
403	Tissue response to intraperitoneal implants of polyethylene oxide-modified polyethylene terephthalate. Biomaterials, 1992, 13, 505-510.	5.7	32
404	Surface-immobilized polyethylene oxide for bacterial repellence. Biomaterials, 1992, 13, 417-420.	5.7	188
405	Poly(ethylene oxide)-graft-poly(L-lysine) copolymers to enhance the biocompatibility of poly(L-lysine)-alginate microcapsule membranes. Biomaterials, 1992, 13, 863-870.	5.7	153
406	Surface physical interpenetrating networks of poly(ethylene terephthalate) and poly(ethylene oxide) with biomedical applications. Macromolecules, 1992, 25, 226-232.	2.2	131
407	Avoidance of photoactivation in the epifluorescence video microscopic observation of thrombosis. Journal of Biomedical Materials Research Part B, 1992, 26, 1535-1542.	3.0	3
408	ADP Receptor Antagonists and Converting Enzyme Systems Reduce Platelet Deposition onto Collagen. Thrombosis and Haemostasis, 1992, 67, 461-467.	1.8	15
409	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.. Journal of Cell Biology, 1991, 114, 1089-1100.	2.3	845
410	Endothelial Cell-Selective Materials for Tissue Engineering in the Vascular Graft Via a New Receptor. Nature Biotechnology, 1991, 9, 568-572.	9.4	265
411	Solution technique to incorporate polyethylene oxide and other water-soluble polymers into surfaces of polymeric biomaterials. Biomaterials, 1991, 12, 144-153.	5.7	258
412	Human endothelial cell interactions with surface-coupled adhesion peptides on a nonadhesive glass substrate and two polymeric biomaterials. Journal of Biomedical Materials Research Part B, 1991, 25, 223-242.	3.0	283
413	Biological responses to polyethylene oxide modified polyethylene terephthalate surfaces. Journal of Biomedical Materials Research Part B, 1991, 25, 829-843.	3.0	242
414	Local modulation of intracellular calcium levels near a single-cell wound in human endothelial monolayers.. Arteriosclerosis and Thrombosis: A Journal of Vascular Biology, 1991, 11, 1258-1265.	3.8	25

#	Article	IF	Citations
415	The Use of Laser-Light Scattering and Controlled Shear in Platelet Aggregometry. Thrombosis and Haemostasis, 1991, 65, 601-607.	1.8	7
416	Rapidly degraded terpolymers of DL-lactide, glycolide, and ?-caprolactone with increased hydrophilicity by copolymerization with polyethers. Journal of Biomedical Materials Research Part B, 1990, 24, 1397-1411.	3.0	97
417	Convalent surface immobilization of Arg-Gly-Asp- and Tyr-Ile-Gly-Ser-Arg-containing peptides to obtain well-defined cell-adhesive substrates. Analytical Biochemistry, 1990, 187, 292-301.	1.1	389
418	Covalently Attached GRGD on Polymer Surfaces Promotes Biospecific Adhesion of Mammalian Cells. Annals of the New York Academy of Sciences, 1990, 589, 261-270.	1.8	158
419	The short-term blood biocompatibility of poly(hydroxyethyl methacrylate-co-methyl methacrylate) in an in vitro flow system measured by digital videomicroscopy. Journal of Biomaterials Science, Polymer Edition, 1989, 1, 123-146.	1.9	20
420	Platelet active concentration profiles near growing thrombi. A mathematical consideration. Biophysical Journal, 1986, 50, 937-945.	0.2	71
421	Visualization and analysis of mural thrombogenesis on collagen, polyurethane and nylon. Biomaterials, 1986, 7, 354-363.	5.7	98
422	Technique for visualization and analysis of mural thrombogenesis. Review of Scientific Instruments, 1986, 57, 892-897.	0.6	54