

# Yadong Wang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

143  
papers

7,731  
citations

45  
h-index

85  
g-index

148  
ext. papers

8,772  
ext. citations

9.2  
avg, IF

6.28  
L-index

#	Paper	IF	Citations
143	Biodegradable ZnBr alloys with enhanced mechanical and biocompatibility for biomedical applications. <i>Smart Materials in Medicine</i> , <b>2022</b> , 3, 117-127	12.9	0
142	Persistent fibrosis and decreased cardiac function following cardiac injury in the Ctenopharyngodon idella (grass carp). <i>Anatomical Record</i> , <b>2022</b> , 305, 66-80	2.1	
141	Pigment epithelium-derived factor engineered to increase glycosaminoglycan affinity while maintaining bioactivity.. <i>Biochemical and Biophysical Research Communications</i> , <b>2022</b> , 605, 148-153	3.4	
140	Improved mechanical, degradation, and biological performances of Zn-Fe alloys as bioresorbable implants.. <i>Bioactive Materials</i> , <b>2022</b> , 17, 334-343	16.7	2
139	Synthesis and Characterization of Alkyne-Functionalized Photo-Cross-Linkable Polyesters.. <i>ACS Omega</i> , <b>2022</b> , 7, 15540-15546	3.9	
138	Designing Better Cardiovascular Stent Materials - A Learning Curve. <i>Advanced Functional Materials</i> , <b>2021</b> , 31,	15.6	13
137	Citrate Crosslinked Poly(Glycerol Sebacate) with Tunable Elastomeric Properties. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2000301	5.5	3
136	Electrospun Tissue-Engineered Arterial Graft Thickness Affects Long-Term Composition and Mechanics. <i>Tissue Engineering - Part A</i> , <b>2021</b> , 27, 593-603	3.9	5
135	A randomized controlled preclinical trial on 3 interposal temporomandibular joint disc implants: TEMPOJIMS-Phase 2. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2021</b> , 15, 852-868	4.4	0
134	A Retrospective Clinical Analysis of the Serum Bile Acid Alteration Caused by Traumatic Brain Injury. <i>Frontiers in Neurology</i> , <b>2021</b> , 12, 624378	4.1	0
133	Using Solution Electrowriting to Control the Properties of Tubular Fibrous Conduits. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 400-407	5.5	3
132	Mechanically and biologically skin-like elastomers for bio-integrated electronics. <i>Nature Communications</i> , <b>2020</b> , 11, 1107	17.4	75
131	Fetal Transcatheter Trileaflet Heart Valve Hemodynamics: Implications of Scaling on Valve Mechanics and Turbulence. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 1683-1693	4.7	2
130	Predicting the outcomes of shunt implantation in patients with post-traumatic hydrocephalus and severe conscious disturbance: a scoring system based on clinical characteristics. <i>Journal of Integrative Neuroscience</i> , <b>2020</b> , 19, 31-37	1.5	2
129	Single injection of IL-12 coacervate as an effective therapy against B16-F10 melanoma in mice. <i>Journal of Controlled Release</i> , <b>2020</b> , 318, 270-278	11.7	14
128	Azido-Functionalized Polyurethane Designed for Making Tunable Elastomers by Click Chemistry. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 852-864	5.5	5
127	Evolution of metallic cardiovascular stent materials: A comparative study among stainless steel, magnesium and zinc. <i>Biomaterials</i> , <b>2020</b> , 230, 119641	15.6	58

126	Slow degrading poly(glycerol sebacate) derivatives improve vascular graft remodeling in a rat carotid artery interposition model. <i>Biomaterials</i> , <b>2020</b> , 257, 120251	15.6	24
125	Thick PCL Fibers Improving Host Remodeling of PGS-PCL Composite Grafts Implanted in Rat Common Carotid Arteries. <i>Small</i> , <b>2020</b> , 16, e2004133	11	12
124	Dual delivery of stem cells and insulin-like growth factor-1 in coacervate-embedded composite hydrogels for enhanced cartilage regeneration in osteochondral defects. <i>Journal of Controlled Release</i> , <b>2020</b> , 327, 284-295	11.7	18
123	Development of Tissue Engineered Heart Valves for Percutaneous Transcatheter Delivery in a Fetal Ovine Model. <i>JACC Basic To Translational Science</i> , <b>2020</b> , 5, 815-828	8.7	6
122	Control the Mechanical Properties and Degradation of Poly(Glycerol Sebacate) by Substitution of the Hydroxyl Groups with Palmitates. <i>Macromolecular Bioscience</i> , <b>2020</b> , 20, e2000101	5.5	12
121	Imidazoquinoline-Conjugated Degradable Coacervate Conjugate for Local Cancer Immunotherapy. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 4993-5000	5.5	4
120	Three-Dimensional Printing of Poly(glycerol sebacate) Acrylate Scaffolds Digital Light Processing.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 7575-7588	4.1	6
119	Chelation Crosslinking of Biodegradable Elastomers. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003761	24	10
118	Resorbable vascular grafts show rapid cellularization and degradation in the ovine carotid. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2020</b> , 14, 1673-1684	4.4	9
117	Progress of supercritical fluid technology in polymerization and its applications in biomedical engineering. <i>Progress in Polymer Science</i> , <b>2019</b> , 98, 101161	29.6	12
116	Mechanical Strength, Biodegradation, and in Vitro and in Vivo Biocompatibility of Zn Biomaterials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 6809-6819	9.5	55
115	Decellularized neonatal cardiac extracellular matrix prevents widespread ventricular remodeling in adult mammals after myocardial infarction. <i>Acta Biomaterialia</i> , <b>2019</b> , 87, 140-151	10.8	33
114	Scale-up synthesis of a polymer designed for protein therapy. <i>European Polymer Journal</i> , <b>2019</b> , 117, 353-362	3.62	4
113	Coacervate-mediated exogenous growth factor delivery for scarless skin regeneration. <i>Acta Biomaterialia</i> , <b>2019</b> , 90, 179-191	10.8	22
112	Influence of fiber architecture and growth factor formulation on osteoblastic differentiation of mesenchymal stem cells in coacervate-coated electrospun fibrous scaffolds. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 79, 236-244	6.3	10
111	Investigating Alterations in Caecum Microbiota After Traumatic Brain Injury in Mice. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	1
110	A comparison of BMP2 delivery by coacervate and gene therapy for promoting human muscle-derived stem cell-mediated articular cartilage repair. <i>Stem Cell Research and Therapy</i> , <b>2019</b> , 10, 346	8.3	11
109	Zinc-Based Biomaterials for Regeneration and Therapy. <i>Trends in Biotechnology</i> , <b>2019</b> , 37, 428-441	15.1	134

108	Regenerative Potential of Various Soft Polymeric Scaffolds in the Temporomandibular Joint Condyle. <i>Journal of Oral and Maxillofacial Surgery</i> , <b>2018</b> , 76, 2019-2026	1.8	10
107	Zebrafish extracellular matrix improves neuronal viability and network formation in a 3-dimensional culture. <i>Biomaterials</i> , <b>2018</b> , 170, 137-146	15.6	3
106	A controlled release system for simultaneous delivery of three human perivascular stem cell-derived factors for tissue repair and regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, e1164-e1172	4.4	19
105	Microwave-assisted facile fabrication of porous poly (glycerol sebacate) scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2018</b> , 29, 907-916	3.5	10
104	A biodegradable synthetic graft for small arteries matches the performance of autologous vein in rat carotid arteries. <i>Biomaterials</i> , <b>2018</b> , 181, 67-80	15.6	27
103	Quickening: Translational design of resorbable synthetic vascular grafts. <i>Biomaterials</i> , <b>2018</b> , 173, 71-86	15.6	45
102	A biocompatible betaine-functionalized polycation for coacervation. <i>Soft Matter</i> , <b>2018</b> , 14, 387-395	3.6	8
101	Enhanced Skull Bone Regeneration by Sustained Release of BMP-2 in Interpenetrating Composite Hydrogels. <i>Biomacromolecules</i> , <b>2018</b> , 19, 4239-4249	6.9	20
100	Poly(glycerol sebacate) nanoparticles for encapsulation of hydrophobic anti-cancer drugs. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 5033-5038	4.9	13
99	Dual delivery of growth factors with coacervate-coated poly(lactic-co-glycolic acid) nanofiber improves neovascularization in a mouse skin flap model. <i>Biomaterials</i> , <b>2017</b> , 124, 65-77	15.6	63
98	Poly (fumaroyl bioxirane) maleate: A potential functional scaffold for bone regeneration. <i>Materials Science and Engineering C</i> , <b>2017</b> , 76, 249-259	8.3	9
97	Fibroblast Growth Factor-1 Released from a Heparin Coacervate Improves Cardiac Function in a Mouse Myocardial Infarction Model. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 1988-1999	5.5	18
96	Controlled delivery of platelet-derived proteins enhances porcine wound healing. <i>Journal of Controlled Release</i> , <b>2017</b> , 253, 73-81	11.7	27
95	Localized Multi-Component Delivery Platform Generates Local and Systemic Anti-Tumor Immunity. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604366	15.6	32
94	Weak Bond-Based Injectable and Stimuli Responsive Hydrogels for Biomedical Applications. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 887-906	7.3	69
93	Stress Analysis-Driven Design of Bilayered Scaffolds for Tissue-Engineered Vascular Grafts. <i>Journal of Biomechanical Engineering</i> , <b>2017</b> , 139,	2.1	13
92	Tyramine functionalization of poly(glycerol sebacate) increases the elasticity of the polymer. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 6097-6109	7.3	15
91	Degradation and erosion mechanisms of bioresorbable porous acellular vascular grafts: an investigation. <i>Journal of the Royal Society Interface</i> , <b>2017</b> , 14,	4.1	12

90	Bioengineered Temporomandibular Joint Disk Implants: Study Protocol for a Two-Phase Exploratory Randomized Preclinical Pilot Trial in 18 Black Merino Sheep (TEMPOJIMS). <i>JMIR Research Protocols</i> , <b>2017</b> , 6, e37	2	6
89	Biorubber: Poly(Glycerol Sebacate) <b>2017</b> , 229-236		
88	Poly(sebacoyl diglyceride) Cross-Linked by Dynamic Hydrogen Bonds: A Self-Healing and Functionalizable Thermoplastic Bioelastomer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20591-9	9.5	50
87	Decellularized zebrafish cardiac extracellular matrix induces mammalian heart regeneration. <i>Science Advances</i> , <b>2016</b> , 2, e1600844	14.3	77
86	Long-Term Functional Efficacy of a Novel Electrospun Poly(Glycerol Sebacate)-Based Arterial Graft in Mice. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 2402-2416	4.7	57
85	Phosphorylated poly(sebacoyl diglyceride) - a phosphate functionalized biodegradable polymer for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 2090-2101	7.3	30
84	Towards comprehensive cardiac repair and regeneration after myocardial infarction: Aspects to consider and proteins to deliver. <i>Biomaterials</i> , <b>2016</b> , 82, 94-112	15.6	44
83	Dual physical dynamic bond-based injectable and biodegradable hydrogel for tissue regeneration. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 1175-1185	7.3	25
82	Polyester with Pendent Acetylcholine-Mimicking Functionalities Promotes Neurite Growth. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9590-9	9.5	15
81	Polycations and their biomedical applications. <i>Progress in Polymer Science</i> , <b>2016</b> , 60, 18-50	29.6	54
80	Heparin-Based Coacervate of FGF2 Improves Dermal Regeneration by Asserting a Synergistic Role with Cell Proliferation and Endogenous Facilitated VEGF for Cutaneous Wound Healing. <i>Biomacromolecules</i> , <b>2016</b> , 17, 2168-77	6.9	72
79	Factorial Design of Experiments to Optimize Multiple Protein Delivery for Cardiac Repair. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 879-886	5.5	7
78	A shear-thinning hydrogel that extends in vivo bioactivity of FGF2. <i>Biomaterials</i> , <b>2016</b> , 111, 80-89	15.6	31
77	Highly elastic and suturable electrospun poly(glycerol sebacate) fibrous scaffolds. <i>Acta Biomaterialia</i> , <b>2015</b> , 18, 30-9	10.8	95
76	Characterization of human ethmoid sinus mucosa derived mesenchymal stem cells (hESMSCs) and the application of hESMSCs cell sheets in bone regeneration. <i>Biomaterials</i> , <b>2015</b> , 66, 67-82	15.6	39
75	Sequential delivery of angiogenic growth factors improves revascularization and heart function after myocardial infarction. <i>Journal of Controlled Release</i> , <b>2015</b> , 207, 7-17	11.7	86
74	Synthesis and biocompatibility of a biodegradable and functionalizable thermo-sensitive hydrogel. <i>International Journal of Energy Production and Management</i> , <b>2015</b> , 2, 177-85	5.3	13
73	Coacervate Delivery of Growth Factors Combined with a Degradable Hydrogel Preserves Heart Function after Myocardial Infarction. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 753-759	5.5	28

72	Controlled dual delivery of fibroblast growth factor-2 and Interleukin-10 by heparin-based coacervate synergistically enhances ischemic heart repair. <i>Biomaterials</i> , <b>2015</b> , 72, 138-51	15.6	77
71	Biocompatibility of a coacervate-based controlled release system for protein delivery to the injured spinal cord. <i>Acta Biomaterialia</i> , <b>2015</b> , 11, 204-11	10.8	18
70	Coacervate delivery of HB-EGF accelerates healing of type 2 diabetic wounds. <i>Wound Repair and Regeneration</i> , <b>2015</b> , 23, 591-600	3.6	27
69	Drug delivery systems for wound healing. <i>Current Pharmaceutical Biotechnology</i> , <b>2015</b> , 16, 621-9	2.6	31
68	Controlled Delivery of Sonic Hedgehog with a Heparin-Based Coacervate. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1322, 1-7	1.4	3
67	Lysine-based polycation:heparin coacervate for controlled protein delivery. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 40-6	10.8	35
66	Dual delivery of vascular endothelial growth factor and hepatocyte growth factor coacervate displays strong angiogenic effects. <i>Macromolecular Bioscience</i> , <b>2014</b> , 14, 679-86	5.5	44
65	Micropatterning electrospun scaffolds to create intrinsic vascular networks. <i>Macromolecular Bioscience</i> , <b>2014</b> , 14, 1514-20	5.5	21
64	An oligomeric switch that rapidly decreases the peel strength of a pressure-sensitive adhesive. <i>International Journal of Adhesion and Adhesives</i> , <b>2014</b> , 55, 64-68	3.4	7
63	Nerve regeneration and elastin formation within poly(glycerol sebacate)-based synthetic arterial grafts one-year post-implantation in a rat model. <i>Biomaterials</i> , <b>2014</b> , 35, 165-73	15.6	83
62	The effect of a polyurethane-based reverse thermal gel on bone marrow stromal cell transplant survival and spinal cord repair. <i>Biomaterials</i> , <b>2014</b> , 35, 1924-31	15.6	48
61	Biocompatible reverse thermal gel sustains the release of intravitreal bevacizumab in vivo <b>2014</b> , 55, 469-76		66
60	Poly (glycerol sebacate) elastomer supports osteogenic phenotype for bone engineering applications. <i>Biomedical Materials (Bristol)</i> , <b>2014</b> , 9, 025003	3.5	12
59	Poly(glycerol sebacate) elastomer: a novel material for mechanically loaded bone regeneration. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 45-53	3.9	33
58	Development of functional biomaterials with micro- and nanoscale technologies for tissue engineering and drug delivery applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2014</b> , 8, 1-14	4.4	80
57	A functional polyester carrying free hydroxyl groups promotes the mineralization of osteoblast and human mesenchymal stem cell extracellular matrix. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 2814-23	10.8	39
56	Poly (glycerol sebacate): a novel scaffold material for temporomandibular joint disc engineering. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 729-37	3.9	42
55	Incorporation of parallel electrospun fibers for improved topographical guidance in 3D nerve guides. <i>Biofabrication</i> , <b>2013</b> , 5, 035015	10.5	45

54	Controlled delivery of heparin-binding EGF-like growth factor yields fast and comprehensive wound healing. <i>Journal of Controlled Release</i> , <b>2013</b> , 166, 124-9	11.7	113
53	Non-invasive characterization of polyurethane-based tissue constructs in a rat abdominal repair model using high frequency ultrasound elasticity imaging. <i>Biomaterials</i> , <b>2013</b> , 34, 2701-9	15.6	36
52	Human progenitor cell recruitment via SDF-1 $\alpha$ coacervate-laden PGS vascular grafts. <i>Biomaterials</i> , <b>2013</b> , 34, 9877-85	15.6	60
51	Non-invasive assessment of elastic modulus of arterial constructs during cell culture using ultrasound elasticity imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2013</b> , 39, 2103-15	3.5	15
50	Antiviral and antibacterial polyurethanes of various modalities. <i>Applied Biochemistry and Biotechnology</i> , <b>2013</b> , 169, 1134-46	3.2	30
49	Controlled delivery of sonic hedgehog morphogen and its potential for cardiac repair. <i>PLoS ONE</i> , <b>2013</b> , 8, e63075	3.7	37
48	The effect of a heparin-based coacervate of fibroblast growth factor-2 on scarring in the infarcted myocardium. <i>Biomaterials</i> , <b>2013</b> , 34, 1747-56	15.6	54
47	The role of antioxidation and immunomodulation in postnatal multipotent stem cell-mediated cardiac repair. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 16258-79	6.3	19
46	Sustained release of bone morphogenetic protein 2 via coacervate improves the osteogenic potential of muscle-derived stem cells. <i>Stem Cells Translational Medicine</i> , <b>2013</b> , 2, 667-77	6.9	35
45	An anti-angiogenic reverse thermal gel as a drug-delivery system for age-related wet macular degeneration. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 464-9	5.5	23
44	Design, synthesis, and biocompatibility of an arginine-based polyester. <i>Biotechnology Progress</i> , <b>2012</b> , 28, 257-64	2.8	35
43	Therapeutic angiogenesis: controlled delivery of angiogenic factors. <i>Therapeutic Delivery</i> , <b>2012</b> , 3, 693-714	3.8	95
42	A biocompatible, metal-free catalyst and its application in microwave-assisted synthesis of functional polyesters. <i>Polymer Chemistry</i> , <b>2012</b> , 3, 384-389	4.9	15
41	Fast-degrading elastomer enables rapid remodeling of a cell-free synthetic graft into a neoartery. <i>Nature Medicine</i> , <b>2012</b> , 18, 1148-53	50.5	322
40	Fine control of polyester properties via epoxide ROP using monomers carrying diverse functional groups. <i>Macromolecular Bioscience</i> , <b>2012</b> , 12, 822-9	5.5	19
39	A Versatile Synthetic Platform for a Wide Range of Functionalized Biomaterials. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2812-2820	15.6	36
38	Biomimetic micropatterned multi-channel nerve guides by templated electrospinning. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 1571-82	4.9	47
37	A functional polymer designed for bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 502-10	10.8	27

36	Fabrication of circular microfluidic channels by combining mechanical micromilling and soft lithography. <i>Lab on A Chip</i> , <b>2011</b> , 11, 1550-5	7.2	104
35	Elastomeric PGS scaffolds in arterial tissue engineering. <i>Journal of Visualized Experiments</i> , <b>2011</b> ,	1.6	14
34	A [polycation:heparin] complex releases growth factors with enhanced bioactivity. <i>Journal of Controlled Release</i> , <b>2011</b> , 150, 157-63	11.7	98
33	A Biocompatible Arginine-based Polycation. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 434-440	15.6	30
32	Hydrostatic pressure independently increases elastin and collagen co-expression in small-diameter engineered arterial constructs. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2011</b> , 96, 673-81	5.4	11
31	Artificial niche combining elastomeric substrate and platelets guides vascular differentiation of bone marrow mononuclear cells. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 1979-92	3.9	18
30	Materials for central nervous system regeneration: bioactive cues. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 7033		36
29	A functionalizable reverse thermal gel based on a polyurethane/PEG block copolymer. <i>Biomaterials</i> , <b>2011</b> , 32, 777-86	15.6	74
28	Injectable fibroblast growth factor-2 coacervate for persistent angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 13444-9	11.5	124
27	Substantial expression of mature elastin in arterial constructs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 2705-10	11.5	114
26	Bioelastomers in Tissue Engineering <b>2011</b> , 75-118		8
25	Small intestinal submucosa gel as a potential scaffolding material for cardiac tissue engineering. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 2091-6	10.8	41
24	Physiologic compliance in engineered small-diameter arterial constructs based on an elastomeric substrate. <i>Biomaterials</i> , <b>2010</b> , 31, 1626-35	15.6	89
23	Scaffold stiffness affects the contractile function of three-dimensional engineered cardiac constructs. <i>Biotechnology Progress</i> , <b>2010</b> , 26, 1382-90	2.8	53
22	A functionalizable polyester with free hydroxyl groups and tunable physiochemical and biological properties. <i>Biomaterials</i> , <b>2010</b> , 31, 3129-38	15.6	98
21	Control growth factor release using a self-assembled [polycation:heparin] complex. <i>PLoS ONE</i> , <b>2010</b> , 5, e11017	3.7	39
20	A novel electrospinning target to improve the yield of uniaxially aligned fibers. <i>Biotechnology Progress</i> , <b>2009</b> , 25, 1169-75	2.8	22
19	A biocompatible endothelial cell delivery system for in vitro tissue engineering. <i>Cell Transplantation</i> , <b>2009</b> , 18, 731-43	4	28



18	Cardiac tissue engineering using perfusion bioreactor systems. <i>Nature Protocols</i> , <b>2008</b> , 3, 719-38	18.8	222
17	Pre-treatment of synthetic elastomeric scaffolds by cardiac fibroblasts improves engineered heart tissue. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 86, 713-24	5.4	139
16	Seamless tubular poly(glycerol sebacate) scaffolds: high-yield fabrication and potential applications. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 86, 354-63	5.4	35
15	Co-expression of elastin and collagen leads to highly compliant engineered blood vessels. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 85, 1120-8	5.4	60
14	Poly(glycerol sebacate) supports the proliferation and phenotypic protein expression of primary baboon vascular cells. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2007</b> , 83, 1070-1075	5.4	72
13	Protein precoating of elastomeric tissue-engineering scaffolds increased cellularity, enhanced extracellular matrix protein production, and differentially regulated the phenotypes of circulating endothelial progenitor cells. <i>Circulation</i> , <b>2007</b> , 116, 155-63	16.7	64
12	Macroporous elastomeric scaffolds with extensive micropores for soft tissue engineering. <i>Tissue Engineering</i> , <b>2006</b> , 12, 917-25		167
11	Biomimetic approach to cardiac tissue engineering: oxygen carriers and channeled scaffolds. <i>Tissue Engineering</i> , <b>2006</b> , 12, 2077-91		261
10	A neuroinductive biomaterial based on dopamine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 16681-6	11.5	34
9	Biomimetic Approach to Cardiac Tissue Engineering: Oxygen Carriers and Channeled Scaffolds. <i>Tissue Engineering</i> , <b>2006</b> , 060913044658032		
8	Three-Dimensional Microfluidic Tissue-Engineering Scaffolds Using a Flexible Biodegradable Polymer. <i>Advanced Materials</i> , <b>2005</b> , 18, 165-169	24	236
7	Endothelialized microvasculature based on a biodegradable elastomer. <i>Tissue Engineering</i> , <b>2005</b> , 11, 302-9		280
6	Biocompatibility analysis of poly(glycerol sebacate) as a nerve guide material. <i>Biomaterials</i> , <b>2005</b> , 26, 5454-64	15.6	342
5	Spheroid formation and expression of liver specific functions of primary rat hepatocytes co-cultured with bone marrow cells. <i>Biochemical Engineering Journal</i> , <b>2004</b> , 20, 223-228	4.2	9
4	In vivo degradation characteristics of poly(glycerol sebacate). <i>Journal of Biomedical Materials Research Part B</i> , <b>2003</b> , 66, 192-7		306
3	A tough biodegradable elastomer. <i>Nature Biotechnology</i> , <b>2002</b> , 20, 602-6	44.5	985
2	Poly(glycerol sebacate) A Novel Biodegradable Elastomer for Tissue Engineering. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 724, N11.1.1		6
1	Biorubber: Poly(Glycerol Sebacate)979-986		

