

# Stephen F Badylak

## List of Publications by Year in descending order

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409  
papers

51,909  
citations

764

119  
h-index

1589

216  
g-index

421  
all docs

421  
docs citations

421  
times ranked

27385  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Perivascular Origin for Mesenchymal Stem Cells in Multiple Human Organs. <i>Cell Stem Cell</i> , 2008, 3, 301-313.	5.2	3,556
2	An overview of tissue and whole organ decellularization processes. <i>Biomaterials</i> , 2011, 32, 3233-3243.	5.7	2,647
3	Decellularization of tissues and organs. <i>Biomaterials</i> , 2006, 27, 3675-83.	5.7	1,676
4	Extracellular matrix as a biological scaffold material: Structure and function. <i>Acta Biomaterialia</i> , 2009, 5, 1-13.	4.1	1,450
5	The extracellular matrix as a biologic scaffold material. <i>Biomaterials</i> , 2007, 28, 3587-3593.	5.7	877
6	Whole-Organ Tissue Engineering: Decellularization and Recellularization of Three-Dimensional Matrix Scaffolds. <i>Annual Review of Biomedical Engineering</i> , 2011, 13, 27-53.	5.7	877
7	Macrophage phenotype and remodeling outcomes in response to biologic scaffolds with and without a cellular component. <i>Biomaterials</i> , 2009, 30, 1482-1491.	5.7	776
8	Immune response to biologic scaffold materials. <i>Seminars in Immunology</i> , 2008, 20, 109-116.	2.7	736
9	Macrophage polarization: An opportunity for improved outcomes in biomaterials and regenerative medicine. <i>Biomaterials</i> , 2012, 33, 3792-3802.	5.7	728
10	The extracellular matrix as a scaffold for tissue reconstruction. <i>Seminars in Cell and Developmental Biology</i> , 2002, 13, 377-383.	2.3	698
11	Xenogeneic extracellular matrix as a scaffold for tissue reconstruction. <i>Transplant Immunology</i> , 2004, 12, 367-377.	0.6	662
12	Macrophage Phenotype as a Determinant of Biologic Scaffold Remodeling. <i>Tissue Engineering - Part A</i> , 2008, 14, 1835-1842.	1.6	629
13	Macrophage phenotype as a predictor of constructive remodeling following the implantation of biologically derived surgical mesh materials. <i>Acta Biomaterialia</i> , 2012, 8, 978-987.	4.1	619
14	Extracellular matrix hydrogels from decellularized tissues: Structure and function. <i>Acta Biomaterialia</i> , 2017, 49, 1-15.	4.1	587
15	Extracellular matrix-based materials for regenerative medicine. <i>Nature Reviews Materials</i> , 2018, 3, 159-173.	23.3	572
16	Small intestinal submucosa as a large diameter vascular graft in the dog. <i>Journal of Surgical Research</i> , 1989, 47, 74-80.	0.8	548
17	Identification of extractable growth factors from small intestinal submucosa. <i>Journal of Cellular Biochemistry</i> , 1997, 67, 478-491.	1.2	545
18	Consequences of ineffective decellularization of biologic scaffolds on the host response. <i>Biomaterials</i> , 2012, 33, 1771-1781.	5.7	499

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19	Methods of tissue decellularization used for preparation of biologic scaffolds and in vivo relevance. <i>Methods</i> , 2015, 84, 25-34.	1.9	472
20	Extracellular matrix scaffolds for cartilage and bone regeneration. <i>Trends in Biotechnology</i> , 2013, 31, 169-176.	4.9	465
21	Reprint of: Extracellular matrix as a biological scaffold material: Structure and function. <i>Acta Biomaterialia</i> , 2015, 23, S17-S26.	4.1	434
22	Preparation and rheological characterization of a gel form of the porcine urinary bladder matrix. <i>Biomaterials</i> , 2008, 29, 1630-1637.	5.7	426
23	The use of xenogeneic small intestinal submucosa as a biomaterial for Achille's tendon repair in a dog model. <i>Journal of Biomedical Materials Research Part B</i> , 1995, 29, 977-985.	3.0	423
24	Quantification of DNA in Biologic Scaffold Materials. <i>Journal of Surgical Research</i> , 2009, 152, 135-139.	0.8	410
25	The effects of processing methods upon mechanical and biologic properties of porcine dermal extracellular matrix scaffolds. <i>Biomaterials</i> , 2010, 31, 8626-8633.	5.7	386
26	An Acellular Biologic Scaffold Promotes Skeletal Muscle Formation in Mice and Humans with Volumetric Muscle Loss. <i>Science Translational Medicine</i> , 2014, 6, 234ra58.	5.8	384
27	Extracellular matrix as an inductive scaffold for functional tissue reconstruction. <i>Translational Research</i> , 2014, 163, 268-285.	2.2	380
28	The Basement Membrane Component of Biologic Scaffolds Derived from Extracellular Matrix. <i>Tissue Engineering</i> , 2006, 12, 519-526.	4.9	373
29	A hydrogel derived from decellularized dermal extracellular matrix. <i>Biomaterials</i> , 2012, 33, 7028-7038.	5.7	368
30	XENOGENEIC EXTRACELLULAR MATRIX GRAFTS ELICIT A TH2-RESTRICTED IMMUNE RESPONSE1. <i>Transplantation</i> , 2001, 71, 1631-1640.	0.5	342
31	Extracellular Matrix Bioscaffolds for Orthopaedic Applications. <i>Journal of Bone and Joint Surgery - Series A</i> , 2006, 88, 2673-2686.	1.4	337
32	Regenerative Urinary Bladder Augmentation Using Small Intestinal Submucosa: Urodynamic and Histopathologic Assessment in Long-term Canine Bladder augmentations. <i>Journal of Urology</i> , 1996, 155, 2098-2104.	0.2	331
33	Degradation Products of Extracellular Matrix Affect Cell Migration and Proliferation. <i>Tissue Engineering - Part A</i> , 2009, 15, 605-614.	1.6	329
34	Experimental assessment of small intestinal submucosa as a bladder wall substitute. <i>Urology</i> , 1995, 46, 396-400.	0.5	304
35	Macrophage Participation in the Degradation and Remodeling of Extracellular Matrix Scaffolds. <i>Tissue Engineering - Part A</i> , 2009, 15, 1687-1694.	1.6	303
36	Morphologic Study of Small Intestinal Submucosa as a Body Wall Repair Device. <i>Journal of Surgical Research</i> , 2002, 103, 190-202.	0.8	293

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37	Glycosaminoglycan Content of Small Intestinal Submucosa: A Bioscaffold for Tissue Replacement. <i>Tissue Engineering</i> , 1996, 2, 209-217.	4.9	287
38	A Whole-Organ Regenerative Medicine Approach for Liver Replacement. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 677-686.	1.1	280
39	Preparation of Cardiac Extracellular Matrix from an Intact Porcine Heart. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 525-532.	1.1	270
40	Resorbable bioscaffold for esophageal repair in a dog model. <i>Journal of Pediatric Surgery</i> , 2000, 35, 1097-1103.	0.8	267
41	Esophageal Reconstruction with ECM and Muscle Tissue in a Dog Model. <i>Journal of Surgical Research</i> , 2005, 128, 87-97.	0.8	266
42	Matrix-bound nanovesicles within ECM bioscaffolds. <i>Science Advances</i> , 2016, 2, e1600502.	4.7	263
43	Maintenance of Human Hepatocyte Function <i>In Vitro</i> by Liver-Derived Extracellular Matrix Gels. <i>Tissue Engineering - Part A</i> , 2010, 16, 1075-1082.	1.6	245
44	Functional skeletal muscle formation with a biologic scaffold. <i>Biomaterials</i> , 2010, 31, 7475-7484.	5.7	242
45	Perfusion-decellularized pancreas as a natural 3D scaffold for pancreatic tissue and whole organ engineering. <i>Biomaterials</i> , 2013, 34, 6760-6772.	5.7	242
46	Decellularized Allogeneic and Xenogeneic Tissue as a Bioscaffold for Regenerative Medicine: Factors that Influence the Host Response. <i>Annals of Biomedical Engineering</i> , 2014, 42, 1517-1527.	1.3	242
47	Small Intestinal Submucosa as a Vascular Graft: A Review. <i>Journal of Investigative Surgery</i> , 1993, 6, 297-310.	0.6	241
48	Intestine Submucosa and Polypropylene Mesh for Abdominal Wall Repair in Dogs. <i>Journal of Surgical Research</i> , 1996, 60, 107-114.	0.8	239
49	Hydrogels derived from central nervous system extracellular matrix. <i>Biomaterials</i> , 2013, 34, 1033-1040.	5.7	237
50	Clinical Application of an Acellular Biologic Scaffold for Surgical Repair of a Large, Traumatic Quadriceps Femoris Muscle Defect. <i>Orthopedics</i> , 2010, 33, 511.	0.5	235
51	Strength over Time of a Resorbable Bioscaffold for Body Wall Repair in a Dog Model. <i>Journal of Surgical Research</i> , 2001, 99, 282-287.	0.8	228
52	Regeneration of skeletal muscle. <i>Cell and Tissue Research</i> , 2012, 347, 759-774.	1.5	226
53	Hydrogels derived from demineralized and decellularized bone extracellular matrix. <i>Acta Biomaterialia</i> , 2013, 9, 7865-7873.	4.1	224
54	Biologic scaffold composed of skeletal muscle extracellular matrix. <i>Biomaterials</i> , 2012, 33, 2916-2925.	5.7	219

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55	Biologic scaffolds composed of central nervous system extracellular matrix. <i>Biomaterials</i> , 2012, 33, 3539-3547.	5.7	217
56	Expanded applications, shifting paradigms and an improved understanding of host-biomaterial interactions. <i>Acta Biomaterialia</i> , 2013, 9, 4948-4955.	4.1	217
57	Antibacterial Activity within Degradation Products of Biological Scaffolds Composed of Extracellular Matrix. <i>Tissue Engineering</i> , 2006, 12, 2949-2955.	4.9	213
58	The promotion of a constructive macrophage phenotype by solubilized extracellular matrix. <i>Biomaterials</i> , 2014, 35, 8605-8612.	5.7	205
59	Extracellular matrix-derived products modulate endothelial and progenitor cell migration and proliferation in vitro and stimulate regenerative healing in vivo. <i>Matrix Biology</i> , 2010, 29, 690-700.	1.5	204
60	Esophageal Preservation in Five Male Patients After Endoscopic Inner-Layer Circumferential Resection in the Setting of Superficial Cancer: A Regenerative Medicine Approach with a Biologic Scaffold. <i>Tissue Engineering - Part A</i> , 2011, 17, 1643-1650.	1.6	203
61	Biaxial strength of multilaminated extracellular matrix scaffolds. <i>Biomaterials</i> , 2004, 25, 2353-2361.	5.7	200
62	In vivo degradation of 14C-labeled small intestinal submucosa (SIS) when used for urinary bladder repair. <i>Biomaterials</i> , 2001, 22, 2653-2659.	5.7	199
63	Assessing Porcine Liver-Derived Biomatrix for Hepatic Tissue Engineering. <i>Tissue Engineering</i> , 2004, 10, 1046-1053.	4.9	198
64	Chemoattraction of Progenitor Cells by Remodeling Extracellular Matrix Scaffolds. <i>Tissue Engineering - Part A</i> , 2009, 15, 1119-1125.	1.6	197
65	Rabbit urethral regeneration using small intestinal submucosa onlay grafts. <i>Urology</i> , 1998, 52, 138-142.	0.5	196
66	Degradation and Remodeling of Small Intestinal Submucosa in Canine Achilles Tendon Repair. <i>Journal of Bone and Joint Surgery - Series A</i> , 2007, 89, 621-630.	1.4	196
67	Small Intestinal Submucosa as a Small-Diameter Arterial Graft in the Dog. <i>Journal of Investigative Surgery</i> , 1990, 3, 217-227.	0.6	194
68	Macrophage polarization in response to ECM coated polypropylene mesh. <i>Biomaterials</i> , 2014, 35, 6838-6849.	5.7	193
69	Maintenance of Hepatic Sinusoidal Endothelial Cell Phenotype In Vitro Using Organ-Specific Extracellular Matrix Scaffolds. <i>Tissue Engineering</i> , 2007, 13, 2301-2310.	4.9	189
70	Naturally derived and synthetic scaffolds for skeletal muscle reconstruction. <i>Advanced Drug Delivery Reviews</i> , 2015, 84, 208-221.	6.6	189
71	Mechanical properties and in vivo behavior of a biodegradable synthetic polymer microfibrillar extracellular matrix hydrogel biohybrid scaffold. <i>Biomaterials</i> , 2011, 32, 3387-3394.	5.7	188
72	The impact of detergents on the tissue decellularization process: A ToF-SIMS study. <i>Acta Biomaterialia</i> , 2017, 50, 207-219.	4.1	187

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73	Low-Molecular-Weight Peptides Derived from Extracellular Matrix as Chemoattractants for Primary Endothelial Cells. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2004, 11, 199-206.	1.7	184
74	Comparison of Three Methods for the Derivation of a Biologic Scaffold Composed of Adipose Tissue Extracellular Matrix. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 411-421.	1.1	182
75	Biologic Scaffolds for Regenerative Medicine: Mechanisms of In vivo Remodeling. <i>Annals of Biomedical Engineering</i> , 2015, 43, 577-592.	1.3	182
76	Extracellular matrix scaffold devices for rotator cuff repair. <i>Journal of Shoulder and Elbow Surgery</i> , 2010, 19, 467-476.	1.2	179
77	Differential expression of muscle regulatory factor genes in normal and denervated adult rat hindlimb muscles. <i>Developmental Dynamics</i> , 1993, 198, 214-224.	0.8	177
78	Small Bowel Tissue Engineering Using Small Intestinal Submucosa as a Scaffold. <i>Journal of Surgical Research</i> , 2001, 99, 352-358.	0.8	176
79	Extracellular Matrix Scaffold for Cardiac Repair. <i>Circulation</i> , 2005, 112, 1135-43.	1.6	174
80	Characterization of Small Intestinal Submucosa Regenerated Canine Detrusor: Assessment of Reinnervation, in Vitro Compliance and Contractility. <i>Journal of Urology</i> , 1996, 156, 599-607.	0.2	171
81	Marrow-derived cells populate scaffolds composed of xenogeneic extracellular matrix. <i>Experimental Hematology</i> , 2001, 29, 1310-1318.	0.2	170
82	Antimicrobial Activity Associated with Extracellular Matrices. <i>Tissue Engineering</i> , 2002, 8, 63-71.	4.9	164
83	Porcine small intestinal submucosa (SIS): a bioscaffold supporting in vitro primary human epidermal cell differentiation and synthesis of basement membrane proteins. <i>Burns</i> , 2001, 27, 254-266.	1.1	163
84	Extracellular matrix scaffolds are repopulated by bone marrow-derived cells in a mouse model of achilles tendon reconstruction. <i>Journal of Orthopaedic Research</i> , 2006, 24, 1299-1309.	1.2	162
85	An extracellular matrix scaffold for esophageal stricture prevention after circumferential EMR. <i>Gastrointestinal Endoscopy</i> , 2009, 69, 289-296.	0.5	162
86	Xenogeneic Extracellular Matrix as an Inductive Scaffold for Regeneration of a Functioning Musculotendinous Junction. <i>Tissue Engineering - Part A</i> , 2010, 16, 3309-3317.	1.6	162
87	Recruitment of Progenitor Cells by an Extracellular Matrix Cryptic Peptide in a Mouse Model of Digit Amputation. <i>Tissue Engineering - Part A</i> , 2011, 17, 2435-2443.	1.6	162
88	Small intestinal submucosa: a substrate for in vitro cell growth. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998, 9, 863-878.	1.9	161
89	Collagen fiber alignment and biaxial mechanical behavior of porcine urinary bladder derived extracellular matrix. <i>Biomaterials</i> , 2008, 29, 4775-4782.	5.7	158
90	The effect of detergents on the basement membrane complex of a biologic scaffold material. <i>Acta Biomaterialia</i> , 2014, 10, 183-193.	4.1	157

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91	Extracellular matrix bioscaffolds in tissue remodeling and morphogenesis. <i>Developmental Dynamics</i> , 2016, 245, 351-360.	0.8	157
92	Non-invasive imaging of transplanted human neural stem cells and ECM scaffold remodeling in the stroke-damaged rat brain by 19F- and diffusion-MRI. <i>Biomaterials</i> , 2012, 33, 2858-2871.	5.7	155
93	Surface characterization of extracellular matrix scaffolds. <i>Biomaterials</i> , 2010, 31, 428-437.	5.7	154
94	An acellular biologic scaffold treatment for volumetric muscle loss: results of a 13-patient cohort study. <i>Npj Regenerative Medicine</i> , 2016, 1, 16008.	2.5	154
95	Endothelial cell adherence to small intestinal submucosa: an acellular bioscaffold. <i>Biomaterials</i> , 1999, 20, 2257-2263.	5.7	152
96	Comparison of the resistance to infection of intestinal submucosa arterial autografts versus polytetrafluoroethylene arterial prostheses in a dog model. <i>Journal of Vascular Surgery</i> , 1994, 19, 465-472.	0.6	150
97	Rethinking Regenerative Medicine: A Macrophage-Centered Approach. <i>Frontiers in Immunology</i> , 2014, 5, 510.	2.2	150
98	Epimorphic regeneration approach to tissue replacement in adult mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3351-3355.	3.3	146
99	Solubilized extracellular matrix bioscaffolds derived from diverse source tissues differentially influence macrophage phenotype. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 138-147.	2.1	145
100	Tissue-Engineered Myocardial Patch Derived From Extracellular Matrix Provides Regional Mechanical Function. <i>Circulation</i> , 2005, 112, 1144-9.	1.6	144
101	Small intestinal submucosa as a superior vena cava graft in the dog. <i>Journal of Surgical Research</i> , 1992, 53, 175-181.	0.8	143
102	Effect of the $\alpha$ Gal Epitope on the Response to Small Intestinal Submucosa Extracellular Matrix in a Nonhuman Primate Model. <i>Tissue Engineering - Part A</i> , 2009, 15, 3877-3888.	1.6	142
103	ECM hydrogel coating mitigates the chronic inflammatory response to polypropylene mesh. <i>Biomaterials</i> , 2014, 35, 8585-8595.	5.7	141
104	Extracellular Matrix for Myocardial Repair. <i>Heart Surgery Forum</i> , 2003, 6, 20.	0.2	140
105	Naturally Occurring Extracellular Matrix as a Scaffold for Musculoskeletal Repair. <i>Clinical Orthopaedics and Related Research</i> , 1999, 367, S333-S343.	0.7	139
106	Characterization of Fibronectin Derived from Porcine Small Intestinal Submucosa. <i>Tissue Engineering</i> , 1998, 4, 75-83.	4.9	137
107	A Murine Model of Volumetric Muscle Loss and a Regenerative Medicine Approach for Tissue Replacement. <i>Tissue Engineering - Part A</i> , 2012, 18, 1941-1948.	1.6	135
108	$\alpha$ Gal(1,3)Gal Epitope in Porcine Small Intestinal Submucosa. <i>Tissue Engineering</i> , 2000, 6, 233-239.	4.9	134

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109	The Use of Extracellular Matrix as an Inductive Scaffold for the Partial Replacement of Functional Myocardium. <i>Cell Transplantation</i> , 2006, 15, 29-40.	1.2	134
110	Injectable Extracellular Matrix Hydrogels as Scaffolds for Spinal Cord Injury Repair. <i>Tissue Engineering - Part A</i> , 2016, 22, 306-317.	1.6	134
111	Biomaterials for tissue engineering applications. <i>Seminars in Pediatric Surgery</i> , 2014, 23, 112-118.	0.5	131
112	Application and evaluation of the alamarblue assay for cell growth and survival of fibroblasts. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1998, 34, 239-246.	0.7	130
113	Healing Comparison of Small Intestine Submucosa and ePTFE Grafts in the Canine Carotid Artery. <i>Journal of Surgical Research</i> , 1995, 58, 415-420.	0.8	129
114	Thrombospondin-1 Mimetic Peptide Inhibitors of Angiogenesis and Tumor Growth: Design, Synthesis, and Optimization of Pharmacokinetics and Biological Activities. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 2838-2846.	2.9	129
115	Hepatic differentiation of amniotic epithelial cells. <i>Hepatology</i> , 2011, 53, 1719-1729.	3.6	128
116	Small Intestinal Submucosa. <i>Annals of Plastic Surgery</i> , 1995, 35, 374-380.	0.5	127
117	The Use of Biologic Scaffolds in the Treatment of Chronic Nonhealing Wounds. <i>Advances in Wound Care</i> , 2015, 4, 490-500.	2.6	127
118	Concentration-dependent rheological properties of ECM hydrogel for intracerebral delivery to a stroke cavity. <i>Acta Biomaterialia</i> , 2015, 27, 116-130.	4.1	127
119	Production and characterization of ECM powder: implications for tissue engineering applications. <i>Biomaterials</i> , 2005, 26, 1431-1435.	5.7	124
120	Macrophage phenotype in response to ECM bioscaffolds. <i>Seminars in Immunology</i> , 2017, 29, 2-13.	2.7	122
121	Hydrated xenogeneic decellularized tracheal matrix as a scaffold for tracheal reconstruction. <i>Biomaterials</i> , 2010, 31, 3520-3526.	5.7	118
122	Small Intestinal Submucosa. <i>Annals of Plastic Surgery</i> , 1995, 35, 381-388.	0.5	116
123	The use of porcine small intestinal submucosa to enhance the healing of the medial collateral ligament—a functional tissue engineering study in rabbits. <i>Journal of Orthopaedic Research</i> , 2004, 22, 214-220.	1.2	116
124	Regenerative medicine and developmental biology: The role of the extracellular matrix. <i>The Anatomical Record Part B: the New Anatomist</i> , 2005, 287B, 36-41.	1.3	116
125	ECM hydrogel for the treatment of stroke: Characterization of the host cell infiltrate. <i>Biomaterials</i> , 2016, 91, 166-181.	5.7	116
126	Biocompatibility of Small-Intestinal Submucosa in Urinary Tract as Augmentation Cystoplasty Graft and Injectable Suspension. <i>Journal of Endourology</i> , 1994, 8, 125-130.	1.1	112



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127	Progress in tissue engineering and regenerative medicine. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3285-3286.	3.3	112
128	Histology after dural grafting with small intestinal submucosa. World Neurosurgery, 1996, 46, 389-393.	1.3	111
129	Uniaxial and biaxial properties of terminally sterilized porcine urinary bladder matrix scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 408-414.	1.6	111
130	Perfusion-decellularized skeletal muscle as a three-dimensional scaffold with a vascular network template. Biomaterials, 2016, 89, 114-126.	5.7	111
131	The Th2-Restricted Immune Response to Xenogeneic Small Intestinal Submucosa Does Not Influence Systemic Protective Immunity to Viral and Bacterial Pathogens. Tissue Engineering, 2002, 8, 53-62.	4.9	110
132	Chemoattractant activity of degradation products of fetal and adult skin extracellular matrix for keratinocyte progenitor cells. Journal of Tissue Engineering and Regenerative Medicine, 2008, 2, 491-498.	1.3	110
133	Extracellular Matrix-Based Biomaterials and Their Influence Upon Cell Behavior. Annals of Biomedical Engineering, 2020, 48, 2132-2153.	1.3	110
134	The effect of source animal age upon the in vivo remodeling characteristics of an extracellular matrix scaffold. Biomaterials, 2012, 33, 5524-5533.	5.7	109
135	The effect of source animal age upon extracellular matrix scaffold properties. Biomaterials, 2011, 32, 128-136.	5.7	108
136	Bi-layered polyurethane " Extracellular matrix cardiac patch improves ischemic ventricular wall remodeling in a rat model. Biomaterials, 2016, 107, 1-14.	5.7	107
137	Fibronectin peptides mediate HMEC adhesion to porcine-derived extracellular matrix. Biomaterials, 2002, 23, 1841-1848.	5.7	106
138	Molecular assessment of collagen denaturation in decellularized tissues using a collagen hybridizing peptide. Acta Biomaterialia, 2017, 53, 268-278.	4.1	106
139	Extracellular Matrix Bioscaffolds as Immunomodulatory Biomaterials<sup />. Tissue Engineering - Part A, 2017, 23, 1152-1159.	1.6	106
140	Biologic Scaffold Remodeling in a Dog Model of Complex Musculoskeletal Injury. Journal of Surgical Research, 2012, 176, 490-502.	0.8	104
141	Polypropylene surgical mesh coated with extracellular matrix mitigates the host foreign body response. Journal of Biomedical Materials Research - Part A, 2014, 102, 234-246.	2.1	104
142	A quantitative method for evaluating the degradation of biologic scaffold materials. Biomaterials, 2007, 28, 147-150.	5.7	102
143	Hybrid nanofibrous scaffolds from electrospinning of a synthetic biodegradable elastomer and urinary bladder matrix. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 635-652.	1.9	102
144	Aerobic fitness and resting energy expenditure in young adult males. Metabolism: Clinical and Experimental, 1989, 38, 85-90.	1.5	99

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145	Retention of Endothelial Cell Adherence to Porcine-Derived Extracellular Matrix after Disinfection and Sterilization. <i>Tissue Engineering</i> , 2002, 8, 225-234.	4.9	97
146	Role of the Extracellular Matrix in Whole Organ Engineering. <i>Journal of Cellular Physiology</i> , 2014, 229, 984-989.	2.0	96
147	The host response to allogeneic and xenogeneic biological scaffold materials. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 504-511.	1.3	95
148	Biologic Scaffolds. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2017, 7, a025676.	2.9	93
149	Biodegradation of ECM hydrogel promotes endogenous brain tissue restoration in a rat model of stroke. <i>Acta Biomaterialia</i> , 2018, 80, 66-84.	4.1	93
150	EXTRACELLULAR MATRIX BIOSCAFFOLDS FOR ORTHOPAEDIC APPLICATIONS. <i>Journal of Bone and Joint Surgery - Series A</i> , 2006, 88, 2673-2686.	1.4	93
151	Fabrication and characterization of bioactive and antibacterial composites for dental applications. <i>Acta Biomaterialia</i> , 2014, 10, 3723-3732.	4.1	92
152	Porcine small intestinal submucosa as a dural substitute. <i>World Neurosurgery</i> , 1999, 51, 99-104.	1.3	89
153	Extracellular Matrix Degradation Products and Low-Oxygen Conditions Enhance the Regenerative Potential of Perivascular Stem Cells. <i>Tissue Engineering - Part A</i> , 2011, 17, 37-44.	1.6	89
154	Evidence of innervation following extracellular matrix scaffold-mediated remodelling of muscular tissues. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009, 3, 590-600.	1.3	88
155	Decellularization and Cell Seeding of Whole Liver Biologic Scaffolds Composed of Extracellular Matrix. <i>Journal of Clinical and Experimental Hepatology</i> , 2015, 5, 69-80.	0.4	87
156	Damage associated molecular patterns within xenogeneic biologic scaffolds and their effects on host remodeling. <i>Biomaterials</i> , 2012, 33, 91-101.	5.7	86
157	Reinforcement of Esophageal Anastomoses With an Extracellular Matrix Scaffold in a Canine Model. <i>Annals of Thoracic Surgery</i> , 2006, 82, 2050-2058.	0.7	85
158	Matrix-Bound Nanovesicles Recapitulate Extracellular Matrix Effects on Macrophage Phenotype. <i>Tissue Engineering - Part A</i> , 2017, 23, 1283-1294.	1.6	85
159	Natural anti-galactose $\alpha$ 1,3 galactose antibodies delay, but do not prevent the acceptance of extracellular matrix xenografts. <i>Transplant Immunology</i> , 2002, 10, 15-24.	0.6	83
160	The surface molecular functionality of decellularized extracellular matrices. <i>Biomaterials</i> , 2011, 32, 137-143.	5.7	83
161	Effects of Biologic Scaffolds on Human Stem Cells and Implications for CNS Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2014, 20, 313-323.	1.6	83
162	Patch Esophagoplasty: Esophageal Reconstruction Using Biologic Scaffolds. <i>Annals of Thoracic Surgery</i> , 2014, 97, 283-288.	0.7	82

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163	Morphologic Assessment of Extracellular Matrix Scaffolds for Patch Tracheoplasty in a Canine Model. <i>Annals of Thoracic Surgery</i> , 2008, 86, 967-974.	0.7	81
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