

Stephen F Badylak

List of Publications by Year in descending order

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Version: 2024-02-01

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	Tissue response, macrophage phenotype, and intrinsic calcification induced by cardiovascular biomaterials: Can clinical regenerative potential be predicted in a rat subcutaneous implant model?. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 245-256.	2.1	18
2	Optical Biopsy Using a Neural Network to Predict Gene Expression From Photos of Wounds. <i>Journal of Surgical Research</i> , 2022, 270, 547-554.	0.8	5
3	Inductive Remodeling of Extracellular Matrix Scaffolds in the Temporomandibular Joint of Pigs. <i>Tissue Engineering - Part A</i> , 2022, 28, 447-457.	1.6	6
4	Immunomodulatory matrix-bound nanovesicles mitigate acute and chronic pristane-induced rheumatoid arthritis. <i>Npj Regenerative Medicine</i> , 2022, 7, 13.	2.5	15
5	Mapping the acute time course of immune cell infiltration into an ECM hydrogel in a rat model of stroke using 19F MRI. <i>Biomaterials</i> , 2022, 282, 121386.	5.7	14
6	A liquid fraction of extracellular matrix inhibits glioma cell viability <i>in vitro</i> and <i>in vivo</i> . <i>Oncotarget</i> , 2022, 13, 426-438.	0.8	0
7	Continuous Microfiber Wire Mandrel-Less Biofabrication for Soft Tissue Engineering Applications. <i>Advanced Healthcare Materials</i> , 2022, , 2102613.	3.9	0
8	Adventitia-derived extracellular matrix hydrogel enhances contractility of human vasa vasorum-derived pericytes via β_2 integrin and TGF β 2 receptor. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 1912-1920.	2.1	4
9	Transcriptomic Regulation of Macrophages by Matrix-Bound Nanovesicle-Associated Interleukin-33. <i>Tissue Engineering - Part A</i> , 2022, 28, 867-878.	1.6	3
10	Role of 4-hydroxybutyrate in increased resistance to surgical site infections associated with surgical meshes. <i>Biomaterials</i> , 2021, 267, 120493.	5.7	7
11	Silver-doped bioactive glass particles for <i>in vivo</i> bone tissue regeneration and enhanced methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) inhibition. <i>Materials Science and Engineering C</i> , 2021, 120, 111693.	3.8	21
12	Lipids as regulators of inflammation and tissue regeneration. , 2021, , 175-193.		0
13	Extracellular Matrix Patches for Endarterectomy Repair. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 631750.	1.1	6
14	Material Characterisation and Stratification of Conjunctival Epithelial Cells on Electrospun Poly(μ -Caprolactone) Fibres Loaded with Decellularised Tissue Matrices. <i>Pharmaceutics</i> , 2021, 13, 318.	2.0	14
15	ECM hydrogel improves the delivery of PEG microsphere-encapsulated neural stem cells and endothelial cells into tissue cavities caused by stroke. <i>Brain Research Bulletin</i> , 2021, 168, 120-137.	1.4	21
16	Human Bronchial Epithelial Cell Growth on Homologous Versus Heterologous Tissue Extracellular Matrix. <i>Journal of Surgical Research</i> , 2021, 263, 215-223.	0.8	7
17	The effect of normal, metaplastic, and neoplastic esophageal extracellular matrix upon macrophage activation. <i>Journal of Immunology and Regenerative Medicine</i> , 2021, 13, 100037.	0.2	6
18	Post-Stroke Timing of ECM Hydrogel Implantation Affects Biodegradation and Tissue Restoration. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11372.	1.8	14

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19	Immune and Genome Engineering as the Future of Transplantable Tissue. <i>New England Journal of Medicine</i> , 2021, 385, 2451-2462.	13.9	28
20	Pancreas whole organ engineering. , 2020, , 527-536.		1
21	Extracellular Matrix-Based Biomaterials and Their Influence Upon Cell Behavior. <i>Annals of Biomedical Engineering</i> , 2020, 48, 2132-2153.	1.3	110
22	Breast Reconstruction Using a Three-Dimensional Absorbable Mesh Scaffold and Autologous Fat Grafting: A Composite Strategy Based on Tissue-Engineering Principles. <i>Plastic and Reconstructive Surgery</i> , 2020, 146, 409e-413e.	0.7	22
23	Matrix-Bound Nanovesicles: The Effects of Isolation Method upon Yield, Purity, and Function. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 528-540.	1.1	16
24	Esophageal extracellular matrix hydrogel mitigates metaplastic change in a dog model of Barrett's esophagus. <i>Science Advances</i> , 2020, 6, eaba4526.	4.7	26
25	Single cell sequencing analysis of lizard phagocytic cell populations and their role in tail regeneration. <i>Journal of Immunology and Regenerative Medicine</i> , 2020, 8, 100029.	0.2	14
26	Targeting the host immune response for tissue engineering and regenerative medicine applications. , 2020, , 363-368.		1
27	Ultrasonic cavitation to prepare ECM hydrogels. <i>Acta Biomaterialia</i> , 2020, 108, 77-86.	4.1	17
28	Lipidomics and RNA sequencing reveal a novel subpopulation of nanovesicle within extracellular matrix biomaterials. <i>Science Advances</i> , 2020, 6, eaay4361.	4.7	54
29	Host macrophage response to injectable hydrogels derived from ECM and α -helical peptides. <i>Acta Biomaterialia</i> , 2020, 111, 141-152.	4.1	24
30	Graft IL-33 regulates infiltrating macrophages to protect against chronic rejection. <i>Journal of Clinical Investigation</i> , 2020, 130, 5397-5412.	3.9	41
31	Biologic Scaffolds Composed of Extracellular Matrix for Regenerative Medicine. , 2019, , 613-626.		10
32	Acellular Biologic Scaffolds in Regenerative Medicine: Unacceptable Variability with Acceptable Results. <i>Regenerative Engineering and Translational Medicine</i> , 2019, 5, 414-419.	1.6	8
33	Matrix bound nanovesicle-associated IL-33 activates a pro-remodeling macrophage phenotype via a non-canonical, ST2-independent pathway. <i>Journal of Immunology and Regenerative Medicine</i> , 2019, 3, 26-35.	0.2	29
34	A roadmap for promoting endogenous in situ tissue restoration using inductive bioscaffolds after acute brain injury. <i>Brain Research Bulletin</i> , 2019, 150, 136-149.	1.4	22
35	Scaffolds for skeletal muscle tissue engineering. , 2019, , 245-258.		1
36	Common Challenges in Tissue Regeneration. , 2019, , 217-229.		3

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37	Extracellular matrix and the immune system: friends or foes. <i>Nature Reviews Urology</i> , 2019, 16, 389-390.	1.9	8
38	4-Hydroxybutyrate Promotes Endogenous Antimicrobial Peptide Expression in Macrophages. <i>Tissue Engineering - Part A</i> , 2019, 25, 693-706.	1.6	10
39	Matrix-bound nanovesicles prevent ischemia-induced retinal ganglion cell axon degeneration and death and preserve visual function. <i>Scientific Reports</i> , 2019, 9, 3482.	1.6	41
40	The challenge of stress incontinence and pelvic organ prolapse. <i>Current Opinion in Urology</i> , 2019, 29, 437-442.	0.9	11
41	Comparison of the host macrophage response to synthetic and biologic surgical meshes used for ventral hernia repair. <i>Journal of Immunology and Regenerative Medicine</i> , 2019, 3, 13-25.	0.2	16
42	Human Testis Extracellular Matrix Enhances Human Spermatogonial Stem Cell Survival <i>In Vitro</i> . <i>Tissue Engineering - Part A</i> , 2019, 25, 663-676.	1.6	35
43	Extracellular Matrix Degradation Products Downregulate Neoplastic Esophageal Cell Phenotype. <i>Tissue Engineering - Part A</i> , 2019, 25, 487-498.	1.6	6
44	Cytocompatibility and mechanical properties of surgical sealants for cardiovascular applications. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019, 157, 176-183.	0.4	29
45	Injectable, porous, biohybrid hydrogels incorporating decellularized tissue components for soft tissue applications. <i>Acta Biomaterialia</i> , 2018, 73, 112-126.	4.1	49
46	Properties of the Temporomandibular Joint in Growing Pigs. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	6
47	ECM Hydrogels for Regenerative Medicine. <i>Pancreatic Islet Biology</i> , 2018, , 27-58.	0.1	6
48	Fetal extracellular matrix nerve wraps locally improve peripheral nerve remodeling after complete transection and direct repair in rat. <i>Scientific Reports</i> , 2018, 8, 4474.	1.6	22
49	Immunomodulatory biomaterials. <i>Current Opinion in Biomedical Engineering</i> , 2018, 6, 51-57.	1.8	39
50	The Effect of Mechanical Loading Upon Extracellular Matrix Bioscaffold-Mediated Skeletal Muscle Remodeling. <i>Tissue Engineering - Part A</i> , 2018, 24, 34-46.	1.6	41
51	Extracellular Matrix Bioscaffolds for Building Gastrointestinal Tissue. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2018, 5, 1-13.	2.3	54
52	Sutureless nerve repair with ECM bioscaffolds and laser-activated chitosan adhesive. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 1698-1711.	1.6	9
53	Nitro-Oleic Acid (NO ₂ -OA) Release Enhances Regional Angiogenesis in a Rat Abdominal Wall Defect Model. <i>Tissue Engineering - Part A</i> , 2018, 24, 889-904.	1.6	16
54	Preclinical Animal Models for Temporomandibular Joint Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2018, 24, 171-178.	2.5	51

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55	2036 Extracellular matrix as a novel approach to glioma therapy. <i>Journal of Clinical and Translational Science</i> , 2018, 2, 11-12.	0.3	0
56	Extracellular Matrix for Myocardial Repair. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1098, 151-171.	0.8	11
57	Author Accountability in Biomedical Research. <i>Stem Cells and Development</i> , 2018, 27, 1671-1673.	1.1	2
58	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
59	Alarmins of the extracellular space. <i>Seminars in Immunology</i> , 2018, 38, 33-39.	2.7	14
60	Extracellular matrix-based materials for regenerative medicine. <i>Nature Reviews Materials</i> , 2018, 3, 159-173.	23.3	572
61	Extracellular Matrix Membrane Induces Cementoblastic/Osteogenic Properties of Human Periodontal Ligament Stem Cells. <i>Frontiers in Physiology</i> , 2018, 9, 942.	1.3	18
62	Solution fibre spinning technique for the fabrication of tuneable decellularised matrix-laden fibres and fibrous micromembranes. <i>Acta Biomaterialia</i> , 2018, 78, 111-122.	4.1	27
63	The impact of sterilization upon extracellular matrix hydrogel structure and function. <i>Journal of Immunology and Regenerative Medicine</i> , 2018, 2, 11-20.	0.2	11
64	Restoring Mucosal Barrier Function and Modifying Macrophage Phenotype with an Extracellular Matrix Hydrogel: Potential Therapy for Ulcerative Colitis. <i>Journal of Crohn's and Colitis</i> , 2017, 11, jjw149.	0.6	53
65	Preparation and characterization of a biologic scaffold and hydrogel derived from colonic mucosa. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 291-306.	1.6	43
66	Perivascular extracellular matrix hydrogels mimic native matrix microarchitecture and promote angiogenesis via basic fibroblast growth factor. <i>Biomaterials</i> , 2017, 123, 142-154.	5.7	68
67	Extracellular matrix proteins as temporary coating for thin-film neural implants. <i>Journal of Neural Engineering</i> , 2017, 14, 014001.	1.8	8
68	Molecular assessment of collagen denaturation in decellularized tissues using a collagen hybridizing peptide. <i>Acta Biomaterialia</i> , 2017, 53, 268-278.	4.1	106
69	The Influence of Extracellular RNA on Cell Behavior in Health, Disease, and Regeneration. <i>Current Pathobiology Reports</i> , 2017, 5, 13-22.	1.6	6
70	The effect of cell debris within biologic scaffolds upon the macrophage response. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2109-2118.	2.1	55
71	Regenerative medicine: are we there yet?. <i>Npj Regenerative Medicine</i> , 2017, 2, 2.	2.5	14
72	Extracellular Matrix Bioscaffolds as Immunomodulatory Biomaterials. <i>Tissue Engineering - Part A</i> , 2017, 23, 1152-1159.	1.6	106

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73	Extracellular matrix hydrogels from decellularized tissues: Structure and function. <i>Acta Biomaterialia</i> , 2017, 49, 1-15.	4.1	587
74	Matrix-Bound Nanovesicles Recapitulate Extracellular Matrix Effects on Macrophage Phenotype. <i>Tissue Engineering - Part A</i> , 2017, 23, 1283-1294.	1.6	85
75	Biomaterials-based in situ tissue engineering. <i>Current Opinion in Biomedical Engineering</i> , 2017, 1, 4-7.	1.8	31
76	Urinary bladder extracellular matrix hydrogels and matrix-bound vesicles differentially regulate central nervous system neuron viability and axon growth and branching. <i>Journal of Biomaterials Applications</i> , 2017, 31, 1277-1295.	1.2	34
77	Biologic Scaffolds. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2017, 7, a025676.	2.9	93
78	The impact of detergents on the tissue decellularization process: A ToF-SIMS study. <i>Acta Biomaterialia</i> , 2017, 50, 207-219.	4.1	187
79	Long-term retention of ECM hydrogel after implantation into a sub-acute stroke cavity reduces lesion volume. <i>Acta Biomaterialia</i> , 2017, 63, 50-63.	4.1	53
80	Macrophage phenotype in response to ECM bioscaffolds. <i>Seminars in Immunology</i> , 2017, 29, 2-13.	2.7	122
81	Bioscaffold-mediated mucosal remodeling following short-segment colonic mucosal resection. <i>Journal of Surgical Research</i> , 2017, 218, 353-360.	0.8	3
82	Implantation of Brain-Derived Extracellular Matrix Enhances Neurological Recovery after Traumatic Brain Injury. <i>Cell Transplantation</i> , 2017, 26, 1224-1234.	1.2	56
83	Regenerative Medicine Approaches for Age-Related Muscle Loss and Sarcopenia: A Mini-Review. <i>Gerontology</i> , 2017, 63, 580-589.	1.4	36
84	The extracellular matrix of the gastrointestinal tract: a regenerative medicine platform. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2017, 14, 540-552.	8.2	61
85	Diamagnetic chemical exchange saturation transfer (diaCEST) affords magnetic resonance imaging of extracellular matrix hydrogel implantation in a rat model of stroke. <i>Biomaterials</i> , 2017, 113, 176-190.	5.7	29
86	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
87	Models for evaluating the immune response to naturally derived biomaterials. <i>Drug Discovery Today: Disease Models</i> , 2017, 24, 5-11.	1.2	1
88	Host Response to Implanted Materials and Devices: An Overview. , 2017, , 1-14.		5
89	Emerging Implications for Extracellular Matrix-Based Technologies in Vascularized Composite Allotransplantation. <i>Stem Cells International</i> , 2016, 2016, 1-16.	1.2	8
90	Solubilized liver extracellular matrix maintains primary rat hepatocyte phenotype <i>in vitro</i> . <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 957-965.	2.1	58

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91	Regenerative medicine: today's discoveries informing the future of medical practice. <i>Npj Regenerative Medicine</i> , 2016, 1, 16007.	2.5	19
92	Perspective: Work with, not against, biology. <i>Nature</i> , 2016, 540, S55-S55.	13.7	17
93	A scaffold immune microenvironment. <i>Science</i> , 2016, 352, 298-298.	6.0	29
94	Mechanical strength vs. degradation of a biologically-derived surgical mesh over time in a rodent full thickness abdominal wall defect. <i>Biomaterials</i> , 2016, 108, 81-90.	5.7	32
95	Extracellular matrix bioscaffolds in tissue remodeling and morphogenesis. <i>Developmental Dynamics</i> , 2016, 245, 351-360.	0.8	157
96	Immunomodulation and Mobilization of Progenitor Cells by Extracellular Matrix Bioscaffolds for Volumetric Muscle Loss Treatment. <i>Tissue Engineering - Part A</i> , 2016, 22, 1129-1139.	1.6	63
97	Bi-layered polyurethane " Extracellular matrix cardiac patch improves ischemic ventricular wall remodeling in a rat model. <i>Biomaterials</i> , 2016, 107, 1-14.	5.7	107
98	Electrodiagnostic Evaluation of Individuals Implanted With Extracellular Matrix for the Treatment of Volumetric Muscle Injury: Case Series. <i>Physical Therapy</i> , 2016, 96, 540-549.	1.1	34
99	Regenerative Medicine: lessons from Mother Nature. <i>Regenerative Medicine</i> , 2016, 11, 767-775.	0.8	10
100	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
101	Matrix-bound nanovesicles within ECM bioscaffolds. <i>Science Advances</i> , 2016, 2, e1600502.	4.7	263
102	ECM hydrogel for the treatment of stroke: Characterization of the host cell infiltrate. <i>Biomaterials</i> , 2016, 91, 166-181.	5.7	116
103	A panel data set on harvest and perfusion decellularization of porcine rectus abdominis. <i>Data in Brief</i> , 2016, 7, 1375-1382.	0.5	5
104	Extracellular Matrix as an Inductive Scaffold for Functional Tissue Reconstruction. , 2016, , 11-29.		8
105	Mechanisms by which acellular biologic scaffolds promote functional skeletal muscle restoration. <i>Biomaterials</i> , 2016, 103, 128-136.	5.7	62
106	Abdominal wall reconstruction by a regionally distinct biocomposite of extracellular matrix digest and a biodegradable elastomer. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 748-761.	1.3	25
107	Inhibition of COX1/2 alters the host response and reduces ECM scaffold mediated constructive tissue remodeling in a rodent model of skeletal muscle injury. <i>Acta Biomaterialia</i> , 2016, 31, 50-60.	4.1	50
108	The effect of terminal sterilization on the material properties and in vivo remodeling of a porcine dermal biologic scaffold. <i>Acta Biomaterialia</i> , 2016, 33, 78-87.	4.1	66

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109	Perfusion-decellularized skeletal muscle as a three-dimensional scaffold with a vascular network template. <i>Biomaterials</i> , 2016, 89, 114-126.	5.7	111
110	Looking Ahead to Engineering Epimorphic Regeneration of a Human Digit or Limb. <i>Tissue Engineering - Part B: Reviews</i> , 2016, 22, 251-262.	2.5	17
111	Injectable Extracellular Matrix Hydrogels as Scaffolds for Spinal Cord Injury Repair. <i>Tissue Engineering - Part A</i> , 2016, 22, 306-317.	1.6	134
112	Intestinal stem cell growth and differentiation on a tubular scaffold with evaluation in small and large animals. <i>Regenerative Medicine</i> , 2016, 11, 45-61.	0.8	81
113	Primary tumor microRNA signature predicts recurrence and survival in patients with locally advanced esophageal adenocarcinoma. <i>Oncotarget</i> , 2016, 7, 81281-81291.	0.8	27
114	Solubilized extracellular matrix from brain and urinary bladder elicits distinct functional and phenotypic responses in macrophages. <i>Biomaterials</i> , 2015, 46, 131-140.	5.7	71
115	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
116	Methods of tissue decellularization used for preparation of biologic scaffolds and in vivo relevance. <i>Methods</i> , 2015, 84, 25-34.	1.9	472
117	Reprint of: Extracellular matrix as a biological scaffold material: Structure and function. <i>Acta Biomaterialia</i> , 2015, 23, S17-S26.	4.1	434
118	Neuroprotective effects of collagen matrix in rats after traumatic brain injury. <i>Restorative Neurology and Neuroscience</i> , 2015, 33, 95-104.	0.4	4
119	Composite ECM—alginate microfibers produced by microfluidics as scaffolds with biomineralization potential. <i>Materials Science and Engineering C</i> , 2015, 56, 141-153.	3.8	35
120	Factors Which Affect the Host Response to Biomaterials. , 2015, , 1-12.		9
121	Regenerative Medicine Strategies for Esophageal Repair. <i>Tissue Engineering - Part B: Reviews</i> , 2015, 21, 393-410.	2.5	36
122	Strategies for skeletal muscle tissue engineering: seed vs. soil. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7881-7895.	2.9	16
123	A Rodent Model to Evaluate the Tissue Response to a Biological Scaffold When Adjacent to a Synthetic Material. <i>Tissue Engineering - Part A</i> , 2015, 21, 2526-2535.	1.6	2
124	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
125	Tissue-Specific Effects of Esophageal Extracellular Matrix. <i>Tissue Engineering - Part A</i> , 2015, 21, 2293-2300.	1.6	68
126	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

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127	Biologic Scaffolds for Regenerative Medicine: Mechanisms of In vivo Remodeling. <i>Annals of Biomedical Engineering</i> , 2015, 43, 577-592.	1.3	182
128	Regional Variations in the Histology of Porcine Skin. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 373-384.	1.1	38
129	Predicting <i>In Vivo</i> Responses to Biomaterials via Combined <i>In Vitro</i> and <i>In Silico</i> Analysis. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 148-159.	1.1	41
130	Histologic Characterization of Acellular Dermal Matrices in a Porcine Model of Tissue Expander Breast Reconstruction. <i>Tissue Engineering - Part A</i> , 2015, 21, 35-44.	1.6	42
131	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
132	Naturally derived and synthetic scaffolds for skeletal muscle reconstruction. <i>Advanced Drug Delivery Reviews</i> , 2015, 84, 208-221.	6.6	189
133	MicroRNA Signature Characterizes Primary Tumors That Metastasize in an Esophageal Adenocarcinoma Rat Model. <i>PLoS ONE</i> , 2015, 10, e0122375.	1.1	12
134	Strategies for functional bioscaffold-based skeletal muscle reconstruction. <i>Annals of Translational Medicine</i> , 2015, 3, 256.	0.7	4
135	Extracellular Matrix as a Bioscaffold for Tissue Engineering. , 2014, , 149-175.		6
136	Tissue Engineering and Regenerative Medicine Approaches to Enhance the Functional Response to Skeletal Muscle Injury. <i>Anatomical Record</i> , 2014, 297, 51-64.	0.8	63
137	The Role of the Host Immune Response in Tissue Engineering and Regenerative Medicine. , 2014, , 497-509.		7
138	Rethinking Regenerative Medicine: A Macrophage-Centered Approach. <i>Frontiers in Immunology</i> , 2014, 5, 510.	2.2	150
139	In Vivo Assessment of a Biological Occluder for NOTES Gastrotomy Closure. <i>Surgical Laparoscopy, Endoscopy and Percutaneous Techniques</i> , 2014, 24, 322-326.	0.4	1
140	Targeted Rehabilitation After Extracellular Matrix Scaffold Transplantation for the Treatment of Volumetric Muscle Loss. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2014, 93, S79-S87.	0.7	63
141	Polypropylene surgical mesh coated with extracellular matrix mitigates the host foreign body response. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 234-246.	2.1	104
142	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
143	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
144	Role of the Extracellular Matrix in Whole Organ Engineering. <i>Journal of Cellular Physiology</i> , 2014, 229, 984-989.	2.0	96

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145	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
146	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
147	Fabrication and characterization of bioactive and antibacterial composites for dental applications. <i>Acta Biomaterialia</i> , 2014, 10, 3723-3732.	4.1	92
148	Natural Biomaterials for Regenerative Medicine Applications. , 2014, , 101-112.		9
149	Biocompatibility and Immune Response to Biomaterials. , 2014, , 151-162.		6
150	Extracellular matrix as an inductive scaffold for functional tissue reconstruction. <i>Translational Research</i> , 2014, 163, 268-285.	2.2	380
151	Fractionation of an ECM hydrogel into structural and soluble components reveals distinctive roles in regulating macrophage behavior. <i>Biomaterials Science</i> , 2014, 2, 1521-1534.	2.6	66
152	ECM hydrogel coating mitigates the chronic inflammatory response to polypropylene mesh. <i>Biomaterials</i> , 2014, 35, 8585-8595.	5.7	141
153	The promotion of a constructive macrophage phenotype by solubilized extracellular matrix. <i>Biomaterials</i> , 2014, 35, 8605-8612.	5.7	205
154	Biologic scaffold for CNS repair. <i>Regenerative Medicine</i> , 2014, 9, 367-383.	0.8	44
155	InÂvivo degradation of 14C-labeled porcine dermis biologic scaffold. <i>Biomaterials</i> , 2014, 35, 8297-8304.	5.7	43
156	Patch Esophagoplasty: Esophageal Reconstruction Using Biologic Scaffolds. <i>Annals of Thoracic Surgery</i> , 2014, 97, 283-288.	0.7	82
157	Biomaterials for tissue engineering applications. <i>Seminars in Pediatric Surgery</i> , 2014, 23, 112-118.	0.5	131
158	Macrophage polarization in response to ECM coated polypropylene mesh. <i>Biomaterials</i> , 2014, 35, 6838-6849.	5.7	193
159	Neuromuscular Tissue Engineering. , 2014, , 1-24.		0
160	Quantitative multispectral imaging of Herovici's polychrome for the assessment of collagen content and tissue remodelling. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013, 7, 139-148.	1.3	57
161	Hydrogels derived from demineralized and decellularized bone extracellular matrix. <i>Acta Biomaterialia</i> , 2013, 9, 7865-7873.	4.1	224
162	An Assay to Quantify Chemotactic Properties of Degradation Products from Extracellular Matrix. <i>Methods in Molecular Biology</i> , 2013, 1202, 103-110.	0.4	10

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163	An In Vivo Model System for Evaluation of the Host Response to Biomaterials. <i>Methods in Molecular Biology</i> , 2013, 1037, 3-25.	0.4	13
164	Effect of an Inductive Hydrogel Composed of Urinary Bladder Matrix Upon Functional Recovery Following Traumatic Brain Injury. <i>Tissue Engineering - Part A</i> , 2013, 19, 1909-1918.	1.6	52
165	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
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