

Martin L Yarmush

List of Publications by Year in descending order

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566
papers

32,230
citations

4370

86
h-index

8370

147
g-index

585
all docs

585
docs citations

585
times ranked

28968
citing authors

#	ARTICLE	IF	CITATIONS
1	Organ reengineering through development of a transplantable recellularized liver graft using decellularized liver matrix. <i>Nature Medicine</i> , 2010, 16, 814-820.	15.2	1,215
2	Effect of cell-cell interactions in preservation of cellular phenotype: cocultivation of hepatocytes and nonparenchymal cells. <i>FASEB Journal</i> , 1999, 13, 1883-1900.	0.2	827
3	Hepatocyte function and extracellular matrix geometry: long-term culture in a sandwich configuration. <i>FASEB Journal</i> , 1989, 3, 174-177.	0.2	719
4	Long-term in vitro function of adult hepatocytes in a collagen sandwich configuration. <i>Biotechnology Progress</i> , 1991, 7, 237-245.	1.3	658
5	Electroporation-Based Technologies for Medicine: Principles, Applications, and Challenges. <i>Annual Review of Biomedical Engineering</i> , 2014, 16, 295-320.	5.7	655
6	Mesenchymal Stem Cells: Mechanisms of Immunomodulation and Homing. <i>Cell Transplantation</i> , 2010, 19, 667-679.	1.2	611
7	Tissue Engineering and Regenerative Medicine: History, Progress, and Challenges. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2011, 2, 403-430.	3.3	509
8	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. , 1997, 34, 189-199.		496
9	Mesenchymal Stem Cell-Derived Molecules Reverse Fulminant Hepatic Failure. <i>PLoS ONE</i> , 2007, 2, e941.	1.1	462
10	Mesenchymal stem cell-derived molecules directly modulate hepatocellular death and regeneration <i>in vitro</i> and <i>in vivo</i> . <i>Hepatology</i> , 2008, 47, 1634-1643.	3.6	461
11	Gut Microbiota-Derived Tryptophan Metabolites Modulate Inflammatory Response in Hepatocytes and Macrophages. <i>Cell Reports</i> , 2018, 23, 1099-1111.	2.9	406
12	Effect of extracellular matrix topology on cell structure, function, and physiological responsiveness: hepatocytes cultured in a sandwich configuration. <i>FASEB Journal</i> , 1996, 10, 1471-1484.	0.2	387
13	Effects of oxygenation and flow on the viability and function of rat hepatocytes cocultured in a microchannel flat-plate bioreactor. <i>Biotechnology and Bioengineering</i> , 2001, 73, 379-389.	1.7	304
14	Reprogramming of Intestinal Glucose Metabolism and Glycemic Control in Rats After Gastric Bypass. <i>Science</i> , 2013, 341, 406-410.	6.0	303
15	Microfabrication of Hepatocyte/Fibroblast Co-cultures: Role of Homotypic Cell Interactions. <i>Biotechnology Progress</i> , 1998, 14, 378-387.	1.3	282
16	Hepatocytes in collagen sandwich: evidence for transcriptional and translational regulation.. <i>Journal of Cell Biology</i> , 1992, 116, 1043-1053.	2.3	281
17	Liver-Specific Functional Studies in a Microfluidic Array of Primary Mammalian Hepatocytes. <i>Analytical Chemistry</i> , 2006, 78, 4291-4298.	3.2	238
18	The growing role of precision and personalized medicine for cancer treatment. <i>Technology</i> , 2018, 06, 79-100.	1.4	237

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19	Apolipoprotein B-dependent hepatitis C virus secretion is inhibited by the grapefruit flavonoid naringenin. <i>Hepatology</i> , 2008, 47, 1437-1445.	3.6	226
20	Immunomodulation of activated hepatic stellate cells by mesenchymal stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2007, 363, 247-252.	1.0	224
21	In Vitro Models of Traumatic Brain Injury. <i>Annual Review of Biomedical Engineering</i> , 2011, 13, 91-126.	5.7	220
22	Culture matrix configuration and composition in the maintenance of hepatocyte polarity and function. <i>Biomaterials</i> , 1996, 17, 373-385.	5.7	211
23	Hepatic Injury in Nonalcoholic Steatohepatitis Contributes to Altered Intestinal Permeability. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2015, 1, 222-232.e2.	2.3	209
24	Kinetics of electrically and chemically induced swelling in polyelectrolyte gels. <i>Journal of Chemical Physics</i> , 1990, 93, 4462-4472.	1.2	203
25	A high-throughput microfluidic real-time gene expression living cell array. <i>Lab on A Chip</i> , 2007, 7, 77-85.	3.1	200
26	Oxygen-mediated enhancement of primary hepatocyte metabolism, functional polarization, gene expression, and drug clearance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15714-15719.	3.3	190
27	A microfluidic hepatic coculture platform for cell-based drug metabolism studies. <i>Biochemical Pharmacology</i> , 2010, 79, 1036-1044.	2.0	190
28	Transcriptional Regulation of Human and Rat Hepatic Lipid Metabolism by the Grapefruit Flavonoid Naringenin: Role of PPAR α , PPAR β and LXR α . <i>PLoS ONE</i> , 2010, 5, e12399.	1.1	188
29	Probing heterotypic cell interactions: Hepatocyte function in microfabricated co-cultures. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998, 9, 1137-1160.	1.9	182
30	Nucleation and growth of ice crystals inside cultured hepatocytes during freezing in the presence of dimethyl sulfoxide. <i>Biophysical Journal</i> , 1993, 65, 2524-2536.	0.2	175
31	Subnormothermic Machine Perfusion for Ex Vivo Preservation and Recovery of the Human Liver for Transplantation. <i>American Journal of Transplantation</i> , 2014, 14, 1400-1409.	2.6	170
32	Nonthermal Irreversible Electroporation: Fundamentals, Applications, and Challenges. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 707-714.	2.5	164
33	Long-term maintenance of a microfluidic 3D human liver sinusoid. <i>Biotechnology and Bioengineering</i> , 2016, 113, 241-246.	1.7	164
34	Self-assembling elastin-like peptides growth factor chimeric nanoparticles for the treatment of chronic wounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1034-1039.	3.3	163
35	Polybrene increases retrovirus gene transfer efficiency by enhancing receptor-independent virus adsorption on target cell membranes. <i>Biophysical Chemistry</i> , 2002, 97, 159-172.	1.5	161
36	Dynamic Gene Expression Profiling Using a Microfabricated Living Cell Array. <i>Analytical Chemistry</i> , 2004, 76, 4098-4103.	3.2	158

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37	Supercooling enables long-term transplantation survival following 4 days of liver preservation. <i>Nature Medicine</i> , 2014, 20, 790-793.	15.2	153
38	Evaluation of a microfluidic based cell culture platform with primary human hepatocytes for the prediction of hepatic clearance in human. <i>Biochemical Pharmacology</i> , 2009, 78, 625-632.	2.0	152
39	Microfabrication-based modulation of embryonic stem cell differentiation. <i>Lab on A Chip</i> , 2007, 7, 1018.	3.1	146
40	<i>In Vitro</i> platforms for evaluating liver toxicity. <i>Experimental Biology and Medicine</i> , 2014, 239, 1180-1191.	1.1	145
41	Three-Dimensional Primary Hepatocyte Culture in Synthetic Self-Assembling Peptide Hydrogel. <i>Tissue Engineering - Part A</i> , 2008, 14, 227-236.	1.6	144
42	Reactive Bone Marrow Stromal Cells Attenuate Systemic Inflammation via sTNFR1. <i>Molecular Therapy</i> , 2010, 18, 1857-1864.	3.7	144
43	Simple Surface Modification of Poly(dimethylsiloxane) via Surface Segregating Smart Polymers for Biomicrofluidics. <i>Scientific Reports</i> , 2019, 9, 7377.	1.6	144
44	Alginate-PLL microencapsulation: Effect on the differentiation of embryonic stem cells into hepatocytes. <i>Biotechnology and Bioengineering</i> , 2006, 93, 581-591.	1.7	143
45	Metabolic preconditioning of donor organs: Defatting fatty livers by normothermic perfusion <i>ex vivo</i> . <i>Metabolic Engineering</i> , 2009, 11, 274-283.	3.6	139
46	Enhancement of Naringenin Bioavailability by Complexation with Hydroxypropyl- β -Cyclodextrin. <i>PLoS ONE</i> , 2011, 6, e18033.	1.1	137
47	Bone Marrow-Derived Mesenchymal Stem Cells Ameliorate Autoimmune Enteropathy Independently of Regulatory T Cells. <i>Stem Cells</i> , 2008, 26, 1913-1919.	1.4	134
48	Hepatic Tissue Engineering: Development of Critical Technologies. <i>Annals of the New York Academy of Sciences</i> , 1992, 665, 238-252.	1.8	132
49	Charged Polymers Modulate Retrovirus Transduction via Membrane Charge Neutralization and Virus Aggregation. <i>Biophysical Journal</i> , 2004, 86, 1234-1242.	0.2	132
50	Keratinocyte growth factor induces hyperproliferation and delays differentiation in a skin equivalent model system. <i>FASEB Journal</i> , 2001, 15, 898-906.	0.2	131
51	Microfabricated grooved substrates as platforms for bioartificial liver reactors. <i>Biotechnology and Bioengineering</i> , 2005, 90, 632-644.	1.7	131
52	Oxygen uptake rates in cultured rat hepatocytes. <i>Biotechnology and Bioengineering</i> , 1992, 40, 1286-1291.	1.7	126
53	Dynamics of cell membrane permeability changes at supraphysiological temperatures. <i>Biophysical Journal</i> , 1995, 68, 2608-2614.	0.2	124
54	Oxygen Consumption Characteristics of Porcine Hepatocytes. <i>Metabolic Engineering</i> , 1999, 1, 49-62.	3.6	122

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55	Living-Cell Microarrays. Annual Review of Biomedical Engineering, 2009, 11, 235-257.	5.7	121
56	Naringenin inhibits the assembly and long-term production of infectious hepatitis C virus particles through a PPAR-mediated mechanism. Journal of Hepatology, 2011, 55, 963-971.	1.8	121
57	Recent advances in nonbiofouling PDMS surface modification strategies applicable to microfluidic technology. Technology, 2017, 05, 1-12.	1.4	120
58	Vitrification by ultra-fast cooling at a low concentration of cryoprotectants in a quartz micro-capillary: A study using murine embryonic stem cells. Cryobiology, 2008, 56, 223-232.	0.3	118
59	Hepatic tissue engineering for adjunct and temporary liver support: Critical technologies. Liver Transplantation, 2004, 10, 1331-1342.	1.3	116
60	Droplet-based microfluidic platforms for single T cell secretion analysis of IL-10 cytokine. Biosensors and Bioelectronics, 2011, 26, 2707-2710.	5.3	116
61	Gap junction inhibition prevents drug-induced liver toxicity and fulminant hepatic failure. Nature Biotechnology, 2012, 30, 179-183.	9.4	116
62	Genetically Modified Human Keratinocytes Overexpressing PDGF-A Enhance the Performance of a Composite Skin Graft. Human Gene Therapy, 1998, 9, 529-539.	1.4	115
63	The fabrication of low-impedance nanoporous gold multiple-electrode arrays for neural electrophysiology studies. Nanotechnology, 2010, 21, 125504.	1.3	115
64	Proteomic analysis of naturally-sourced biological scaffolds. Biomaterials, 2016, 75, 37-46.	5.7	115
65	Evaluation of Human Skin Reconstituted from Composite Grafts of Cultured Keratinocytes and Human Acellular Dermis Transplanted to Athymic Mice. Journal of Investigative Dermatology, 1996, 107, 121-127.	0.3	114
66	Supercooling extends preservation time of human livers. Nature Biotechnology, 2019, 37, 1131-1136.	9.4	113
67	Molecular Machines. Annual Review of Biomedical Engineering, 2004, 6, 363-395.	5.7	110
68	Generation and manipulation of hydrogel microcapsules by droplet-based microfluidics for mammalian cell culture. Lab on A Chip, 2017, 17, 1913-1932.	3.1	110
69	Increased gut permeability early after burns correlates with the extent of burn injury. Critical Care Medicine, 1992, 20, 1508-1512.	0.4	105
70	Designing a Hepatocellular Microenvironment with Protein Microarraying and Poly(ethylene glycol) Photolithography. Langmuir, 2004, 20, 2999-3005.	1.6	104
71	Advances in Proteomic Technologies. Annual Review of Biomedical Engineering, 2002, 4, 349-373.	5.7	103
72	Proteoglycans secreted by packaging cell lines inhibit retrovirus infection. Journal of Virology, 1996, 70, 6468-6473.	1.5	103

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73	Assessment of Artificial Liver Support Technology. <i>Cell Transplantation</i> , 1992, 1, 323-341.	1.2	102
74	Control of hypertrophic scar growth using selective photothermolysis. , 1997, 21, 7-12.		99
75	Bioacoustic-enabled patterning of human iPSC-derived cardiomyocytes into 3D cardiac tissue. <i>Biomaterials</i> , 2017, 131, 47-57.	5.7	99
76	Bone Marrow Mesenchymal Stromal Cells Attenuate Organ Injury Induced by LPS and Burn. <i>Cell Transplantation</i> , 2010, 19, 823-830.	1.2	98
77	Layered patterning of hepatocytes in co-culture systems using microfabricated stencils. <i>BioTechniques</i> , 2010, 48, 47-52.	0.8	98
78	Resolvin <scp>D</scp>2 prevents secondary thrombosis and necrosis in a mouse burn wound model. <i>Wound Repair and Regeneration</i> , 2013, 21, 35-43.	1.5	98
79	Effect of Collagen Gel Configuration on the Cytoskeleton in Cultured Rat Hepatocytes. <i>Experimental Cell Research</i> , 1993, 208, 442-452.	1.2	97
80	A Device to Measure the Oxygen Uptake Rate of Attached Cells: Importance in Bioartificial Organ Design. <i>Cell Transplantation</i> , 1994, 3, 515-527.	1.2	96
81	Excorporeal Normothermic Machine Perfusion Resuscitates Pig DCD Livers with Extended Warm Ischemia. <i>Journal of Surgical Research</i> , 2012, 173, e83-e88.	0.8	96
82	Genetically Modified Human Epidermis Overexpressing PDGF-A Directs the Development of a Cellular and Vascular Connective Tissue Stroma When Transplanted to Athymic Miceâ€“Implications for the Use of Genetically Modified Keratinocytes to Modulate Dermal Regeneration. <i>Journal of Investigative Dermatology</i> , 1995, 105, 756-763.	0.3	95
83	Effects of Hypothermia on the Function, Membrane Integrity, and Cytoskeletal Structure of Hepatocytes. <i>Cryobiology</i> , 1995, 32, 389-403.	0.3	95
84	Large-Scale Processing of Recombinant Retroviruses for Gene Therapy. <i>Biotechnology Progress</i> , 1999, 15, 1-11.	1.3	93
85	Implantable microenvironments to attract hematopoietic stem/cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19638-19643.	3.3	93
86	Subnormothermic Machine Perfusion at Both 20Â°C and 30Â°C Recovers Ischemic Rat Livers for Successful Transplantation. <i>Journal of Surgical Research</i> , 2012, 175, 149-156.	0.8	93
87	Tissue heterogeneity in structure and conductivity contribute to cell survival during irreversible electroporation ablation by â€œelectric field sinksâ€ Scientific Reports, 2015, 5, 8485.	1.6	93
88	Oxygen is a factor determining in vitro tissue assembly: Effects on attachment and spreading of hepatocytes. <i>Biotechnology and Bioengineering</i> , 1994, 43, 654-660.	1.7	90
89	Biotunable Acoustic Node Assembly of Organoids. <i>Advanced Healthcare Materials</i> , 2015, 4, 1937-1943.	3.9	90
90	Multilayered tissue mimicking skin and vessel phantoms with tunable mechanical, optical, and acoustic properties. <i>Medical Physics</i> , 2016, 43, 3117-3131.	1.6	90

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91	Isolation and co-culture of rat parenchymal and non-parenchymal liver cells to evaluate cellular interactions and response. <i>Scientific Reports</i> , 2016, 6, 25329.	1.6	90
92	Metabolic Patterning on a Chip: Towards in vitro Liver Zonation of Primary Rat and Human Hepatocytes. <i>Scientific Reports</i> , 2018, 8, 8951.	1.6	90
93	Metabolic Engineering: Advances in Modeling and Intervention in Health and Disease. <i>Annual Review of Biomedical Engineering</i> , 2003, 5, 349-381.	5.7	89
94	Kinetics of retrovirus production and decay. , 1999, 63, 654-662.		88
95	Dynamic interplay of flow and collagen stabilizes primary hepatocytes culture in a microfluidic platform. <i>Lab on A Chip</i> , 2014, 14, 2033-2039.	3.1	88
96	Ultrasensitive Detection of Low Abundance Surface Marker Protein Using Isothermal Rolling Circle Amplification in a Microfluidic Nanoliter Platform. <i>Small</i> , 2011, 7, 395-400.	5.2	87
97	Conserving energy during molecular dynamics simulations of water, proteins, and proteins in water. <i>Journal of Computational Chemistry</i> , 1990, 11, 1169-1180.	1.5	86
98	Oxygen uptake rates and liver-specific functions of hepatocyte and 3T3 fibroblast co-cultures. <i>Biotechnology and Bioengineering</i> , 2007, 97, 188-199.	1.7	86
99	Long-Term Coculture Strategies for Primary Hepatocytes and Liver Sinusoidal Endothelial Cells. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 413-422.	1.1	84
100	Deep learning robotic guidance for autonomous vascular access. <i>Nature Machine Intelligence</i> , 2020, 2, 104-115.	8.3	84
101	Retrovirus infection: effect of time and target cell number. <i>Journal of Virology</i> , 1995, 69, 6994-7000.	1.5	84
102	Radial flow hepatocyte bioreactor using stacked microfabricated grooved substrates. <i>Biotechnology and Bioengineering</i> , 2008, 99, 455-467.	1.7	83
103	A stable long-term hepatocyte culture system for studies of physiologic processes: cytokine stimulation of the acute phase response in rat and human hepatocytes. <i>Biotechnology Progress</i> , 1992, 8, 219-225.	1.3	82
104	Polyelectrolyte Nano-scaffolds for the Design of Layered Cellular Architectures. <i>Tissue Engineering</i> , 2006, 12, 1553-1563.	4.9	82
105	Integration of Technologies for Hepatic Tissue Engineering. , 2007, 103, 309-329.		82
106	Recovery of Warm Ischemic Rat Liver Grafts by Normothermic Extracorporeal Perfusion. <i>Transplantation</i> , 2009, 87, 170-177.	0.5	82
107	Copolymers of lysine and polyethylene glycol: a new family of functionalized drug carriers. <i>Bioconjugate Chemistry</i> , 1993, 4, 54-62.	1.8	81
108	Effect of Oxygen on Isolated Pancreatic Tissue. <i>ASAIO Transactions</i> , 1989, 35, 739-741.	0.2	79

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109	Nonequilibrium freezing of one-cell mouse embryos. Membrane integrity and developmental potential. <i>Biophysical Journal</i> , 1993, 64, 1908-1921.	0.2	79
110	Metabolic Flux Analysis of Postburn Hepatic Hypermetabolism. <i>Metabolic Engineering</i> , 2000, 2, 312-327.	3.6	79
111	Homogeneous differentiation of hepatocyte-like cells from embryonic stem cells: applications for the treatment of liver failure. <i>FASEB Journal</i> , 2008, 22, 898-909.	0.2	79
112	Sleeve gastrectomy and Roux-en-Y gastric bypass exhibit differential effects on food preferences, nutrient absorption and energy expenditure in obese rats. <i>International Journal of Obesity</i> , 2012, 36, 1396-1402.	1.6	79
113	Co-delivery of a growth factor and a tissue-protective molecule using elastin biopolymers accelerates wound healing in diabetic mice. <i>Biomaterials</i> , 2017, 141, 149-160.	5.7	79
114	Microfluidic flow-encoded switching for parallel control of dynamic cellular microenvironments. <i>Lab on A Chip</i> , 2008, 8, 107-116.	3.1	78
115	A simplified subnormothermic machine perfusion system restores ischemically damaged liver grafts in a rat model of orthotopic liver transplantation. <i>Transplantation Research</i> , 2012, 1, 6.	1.5	76
116	Live single cell functional phenotyping in droplet nano-liter reactors. <i>Scientific Reports</i> , 2013, 3, 3179.	1.6	76
117	Metabolic flux analysis of cultured hepatocytes exposed to plasma. <i>Biotechnology and Bioengineering</i> , 2003, 81, 33-49.	1.7	75
118	A novel formulation of oxygen-carrying matrix enhances liver-specific function of cultured hepatocytes. <i>FASEB Journal</i> , 2006, 20, 2531-2533.	0.2	74
119	Building and manipulating neural pathways with microfluidics. <i>Lab on A Chip</i> , 2010, 10, 999.	3.1	74
120	Encapsulated mesenchymal stromal cells for in vivo transplantation. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2747-2758.	1.7	72
121	An analysis of transport resistances in the operation of BIAcore [®] ; implications for kinetic studies of biospecific interactions. <i>Molecular Immunology</i> , 1996, 33, 1203-1214.	1.0	71
122	Patterned Co-Culture of Primary Hepatocytes and Fibroblasts Using Polyelectrolyte Multilayer Templates. <i>Macromolecular Bioscience</i> , 2007, 7, 344-353.	2.1	71
123	A new technique for primary hepatocyte expansion in vitro. <i>Biotechnology and Bioengineering</i> , 2008, 101, 345-356.	1.7	71
124	Xenobiotic Metabolism by Cultured Primary Porcine Hepatocytes. <i>Tissue Engineering</i> , 2000, 6, 467-479.	4.9	69
125	Analysis of Oxygen Transport to Hepatocytes in a Flat-Plate Microchannel Bioreactor. <i>Annals of Biomedical Engineering</i> , 2001, 29, 947-955.	1.3	69
126	Elastin-like polypeptides: A strategic fusion partner for biologics. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1617-1627.	1.7	69

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127	Effectiveness of Poloxamer 188 in Arresting Calcein Leakage from Thermally Damaged Isolated Skeletal Muscle Cells. <i>Annals of the New York Academy of Sciences</i> , 1994, 720, 111-123.	1.8	68
128	Proteomic analysis of altered protein expression in skeletal muscle of rats in a hypermetabolic state induced by burn sepsis. <i>Biochemical Journal</i> , 2006, 397, 149-158.	1.7	68
129	Liver endothelial cells promote LDL-R expression and the uptake of HCV-like particles in primary rat and human hepatocytes. <i>Hepatology</i> , 2006, 43, 257-265.	3.6	68
130	Complexation of Retrovirus with Cationic and Anionic Polymers Increases the Efficiency of Gene Transfer. <i>Human Gene Therapy</i> , 2001, 12, 1611-1621.	1.4	67
131	The use of elastin-like polypeptide-polyelectrolyte complexes to control hepatocyte morphology and function in vitro. <i>Biomaterials</i> , 2008, 29, 625-632.	5.7	67
132	Intrahepatic amino acid and glucose metabolism in a α -galactosamine-induced rat liver failure model. <i>Hepatology</i> , 2001, 34, 360-371.	3.6	66
133	Control of hepatic differentiation via cellular aggregation in an alginate microenvironment. <i>Biotechnology and Bioengineering</i> , 2007, 98, 631-644.	1.7	66
134	A new approach to the cryopreservation of hepatocytes in a sandwich culture configuration. <i>Cryobiology</i> , 1990, 27, 576-584.	0.3	65
135	Surgical models of Roux-en-Y gastric bypass surgery and sleeve gastrectomy in rats and mice. <i>Nature Protocols</i> , 2015, 10, 495-507.	5.5	64
136	Long-term deep-supercooling of large-volume water and red cell suspensions via surface sealing with immiscible liquids. <i>Nature Communications</i> , 2018, 9, 3201.	5.8	64
137	Transport phenomena during freezing of isolated hepatocytes. <i>AIChE Journal</i> , 1992, 38, 1512-1522.	1.8	63
138	Neural lineage differentiation of embryonic stem cells within alginate microbeads. <i>Biomaterials</i> , 2011, 32, 4489-4497.	5.7	63
139	Application of whole-organ tissue engineering in hepatology. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2012, 9, 738-744.	8.2	63
140	Integrated Energy and Flux Balance Based Multiobjective Framework for Large-Scale Metabolic Networks. <i>Annals of Biomedical Engineering</i> , 2007, 35, 863-885.	1.3	62
141	Immunoabsorption: strategies for antigen elution and production of reusable adsorbents. <i>Biotechnology Progress</i> , 1992, 8, 168-178.	1.3	61
142	Cell-cell interactions are essential for maintenance of hepatocyte function in collagen gel but not on matrigel. , 1997, 56, 706-711.		61
143	Amphipathic Peptide-Based Fusion Peptides and Immunoconjugates for the Targeted Ablation of Prostate Cancer Cells. <i>Cancer Research</i> , 2007, 67, 6368-6375.	0.4	61
144	Identification of neutrophil gelatinase-associated lipocalin (NGAL) as a discriminatory marker of the hepatocyte-secreted protein response to IL-1 β : a proteomic analysis. <i>Biotechnology and Bioengineering</i> , 2005, 91, 502-515.	1.7	60

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145	Microfluidics and multielectrode array-compatible organotypic slice culture method. <i>Journal of Neuroscience Methods</i> , 2009, 178, 59-64.	1.3	60
146	Long-Term Functional Recovery of Hepatocytes after Cryopreservation in a Three-Dimensional Culture Configuration. <i>Cell Transplantation</i> , 1992, 1, 281-292.	1.2	59
147	Targeted Expression of Insulin-Like Growth Factor to Human Keratinocytes: Modification of the Autocrine Control of Keratinocyte Proliferation. <i>Journal of Investigative Dermatology</i> , 1996, 107, 113-120.	0.3	59
148	Influence of insulin therapy on burn wound healing in rats. <i>Journal of Surgical Research</i> , 2003, 109, 92-100.	0.8	59
149	Long-Term Superior Performance of a Stem Cell/Hepatocyte Device for the Treatment of Acute Liver Failure. <i>Tissue Engineering - Part A</i> , 2009, 15, 3377-3388.	1.6	59
150	Profiling of dynamic changes in hypermetabolic livers. <i>Biotechnology and Bioengineering</i> , 2003, 83, 400-415.	1.7	58
151	Cell-cell interaction modulates neuroectodermal specification of embryonic stem cells. <i>Neuroscience Letters</i> , 2008, 438, 190-195.	1.0	58
152	DNA-triggered innate immune responses are propagated by gap junction communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12867-12872.	3.3	58
153	Cell Delivery: From Cell Transplantation to Organ Engineering. <i>Cell Transplantation</i> , 2010, 19, 655-665.	1.2	58
154	Bone Marrow Stromal Cell Transplants Prevent Experimental Enterocolitis and Require Host CD11b+ Splenocytes. <i>Gastroenterology</i> , 2011, 140, 966-975.e4.	0.6	58
155	Supercooling preservation and transplantation of the rat liver. <i>Nature Protocols</i> , 2015, 10, 484-494.	5.5	58
156	A Quantitative Model of Invasive Pseudomonas Infection in Burn Injury. <i>Journal of Burn Care and Research</i> , 1994, 15, 232-235.	1.7	57
157	Metabolic flux analysis of hepatocyte function in hormone- and amino acid-supplemented plasma. <i>Metabolic Engineering</i> , 2003, 5, 1-15.	3.6	57
158	Liver Defatting: An Alternative Approach to Enable Steatotic Liver Transplantation. <i>American Journal of Transplantation</i> , 2012, 12, 3176-3183.	2.6	57
159	Decellularized human liver extracellular matrix (hDLM)-mediated hepatic differentiation of human induced pluripotent stem cells (hiPSCs). <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1962-e1973.	1.3	57
160	Covalent Protein-Oligonucleotide Conjugates for Efficient Delivery of Antisense Molecules. <i>Bioconjugate Chemistry</i> , 1997, 8, 935-940.	1.8	56
161	Expression profiling analysis of the metabolic and inflammatory changes following burn injury in rats. <i>Physiological Genomics</i> , 2004, 18, 87-98.	1.0	56
162	Improving functional re-endothelialization of acellular liver scaffold using REDV cell-binding domain. <i>Acta Biomaterialia</i> , 2018, 78, 151-164.	4.1	56

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163	Erratum in print version of "Toward a More Accurate Quantitation of the Activity of Recombinant Retroviruses: Alternatives to Titer and Multiplicity of Infection". Journal of Virology, 2000, 74, 3431-3431.	1.5	55
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