

Max L Balter

List of Publications by Year in descending order

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162
papers

9,082
citations

53660

45
h-index

51492

86
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166
all docs

166
docs citations

166
times ranked

9925
citing authors

#	ARTICLE	IF	CITATIONS
1	Hepatocyte function and extracellular matrix geometry: long-term culture in a sandwich configuration. <i>FASEB Journal</i> , 1989, 3, 174-177.	0.2	719
2	Long-term in vitro function of adult hepatocytes in a collagen sandwich configuration. <i>Biotechnology Progress</i> , 1991, 7, 237-245.	1.3	658
3	Electroporation-Based Technologies for Medicine: Principles, Applications, and Challenges. <i>Annual Review of Biomedical Engineering</i> , 2014, 16, 295-320.	5.7	655
4	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. , 1997, 34, 189-199.		496
5	Gut Microbiota-Derived Tryptophan Metabolites Modulate Inflammatory Response in Hepatocytes and Macrophages. <i>Cell Reports</i> , 2018, 23, 1099-1111.	2.9	406
6	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
7	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
8	The growing role of precision and personalized medicine for cancer treatment. <i>Technology</i> , 2018, 06, 79-100.	1.4	237
9	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
10	Supercooling enables long-term transplantation survival following 4 days of liver preservation. <i>Nature Medicine</i> , 2014, 20, 790-793.	15.2	153
11	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
12	Oxygen uptake rates in cultured rat hepatocytes. <i>Biotechnology and Bioengineering</i> , 1992, 40, 1286-1291.	1.7	126
13	Living-Cell Microarrays. <i>Annual Review of Biomedical Engineering</i> , 2009, 11, 235-257.	5.7	121
14	Proteomic analysis of naturally-sourced biological scaffolds. <i>Biomaterials</i> , 2016, 75, 37-46.	5.7	115
15	Advances in Proteomic Technologies. <i>Annual Review of Biomedical Engineering</i> , 2002, 4, 349-373.	5.7	103
16	Control of hypertrophic scar growth using selective photothermolysis. , 1997, 21, 7-12.		99
17	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
18	Large-Scale Processing of Recombinant Retroviruses for Gene Therapy. <i>Biotechnology Progress</i> , 1999, 15, 1-11.	1.3	93

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19	Tissue heterogeneity in structure and conductivity contribute to cell survival during irreversible electroporation ablation by electric field sinks. Scientific Reports, 2015, 5, 8485.	1.6	93
20	Multilayered tissue mimicking skin and vessel phantoms with tunable mechanical, optical, and acoustic properties. Medical Physics, 2016, 43, 3117-3131.	1.6	90
21	Isolation and co-culture of rat parenchymal and non-parenchymal liver cells to evaluate cellular interactions and response. Scientific Reports, 2016, 6, 25329.	1.6	90
22	Metabolic Patterning on a Chip: Towards in vitro Liver Zonation of Primary Rat and Human Hepatocytes. Scientific Reports, 2018, 8, 8951.	1.6	90
23	Metabolic Engineering: Advances in Modeling and Intervention in Health and Disease. Annual Review of Biomedical Engineering, 2003, 5, 349-381.	5.7	89
24	Kinetics of retrovirus production and decay. , 1999, 63, 654-662.		88
25	Deep learning robotic guidance for autonomous vascular access. Nature Machine Intelligence, 2020, 2, 104-115.	8.3	84
26	A stable long-term hepatocyte culture system for studies of physiologic processes: cytokine stimulation of the acute phase response in rat and human hepatocytes. Biotechnology Progress, 1992, 8, 219-225.	1.3	82
27	Co-delivery of a growth factor and a tissue-protective molecule using elastin biopolymers accelerates wound healing in diabetic mice. Biomaterials, 2017, 141, 149-160.	5.7	79
28	Analysis of Oxygen Transport to Hepatocytes in a Flat-Plate Microchannel Bioreactor. Annals of Biomedical Engineering, 2001, 29, 947-955.	1.3	69
29	Elastin-like polypeptides: A strategic fusion partner for biologics. Biotechnology and Bioengineering, 2016, 113, 1617-1627.	1.7	69
30	Complexation of Retrovirus with Cationic and Anionic Polymers Increases the Efficiency of Gene Transfer. Human Gene Therapy, 2001, 12, 1611-1621.	1.4	67
31	Intrahepatic amino acid and glucose metabolism in a α -galactosamine-induced rat liver failure model. Hepatology, 2001, 34, 360-371.	3.6	66
32	Surgical models of Roux-en-Y gastric bypass surgery and sleeve gastrectomy in rats and mice. Nature Protocols, 2015, 10, 495-507.	5.5	64
33	Long-term deep-supercooling of large-volume water and red cell suspensions via surface sealing with immiscible liquids. Nature Communications, 2018, 9, 3201.	5.8	64
34	Cell-cell interactions are essential for maintenance of hepatocyte function in collagen gel but not on matrigel. , 1997, 56, 706-711.		61
35	Long-Term Functional Recovery of Hepatocytes after Cryopreservation in a Three-Dimensional Culture Configuration. Cell Transplantation, 1992, 1, 281-292.	1.2	59
36	Supercooling preservation and transplantation of the rat liver. Nature Protocols, 2015, 10, 484-494.	5.5	58

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37	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
38	Improving functional re-endothelialization of acellular liver scaffold using REDV cell-binding domain. <i>Acta Biomaterialia</i> , 2018, 78, 151-164.	4.1	56
39	Erratum in print version of "Toward a More Accurate Quantitation of the Activity of Recombinant Retroviruses: Alternatives to Titer and Multiplicity of Infection". <i>Journal of Virology</i> , 2000, 74, 3431-3431.	1.5	55
40	Eradication of multidrug-resistant pseudomonas biofilm with pulsed electric fields. <i>Biotechnology and Bioengineering</i> , 2016, 113, 643-650.	1.7	55
41	Proline-mediated enhancement of hepatocyte function in a collagen gel sandwich culture configuration. <i>FASEB Journal</i> , 1993, 7, 586-591.	0.2	54
42	Alginate micro-encapsulation of mesenchymal stromal cells enhances modulation of the neuro-inflammatory response. <i>Cytherapy</i> , 2015, 17, 1353-1364.	0.3	53
43	A Microfabricated Platform for Generating Physiologically-Relevant Hepatocyte Zonation. <i>Scientific Reports</i> , 2016, 6, 26868.	1.6	53
44	Antibody-targeted Photolysis of Bacteria In Vivo. <i>Nature Biotechnology</i> , 1994, 12, 703-706.	9.4	52
45	Predictivity of dog co-culture model, primary human hepatocytes and HepG2 cells for the detection of hepatotoxic drugs in humans. <i>Toxicology and Applied Pharmacology</i> , 2014, 275, 44-61.	1.3	51
46	The development and characterization of SDF1 \pm -elastin-like-peptide nanoparticles for wound healing. <i>Journal of Controlled Release</i> , 2016, 232, 238-247.	4.8	51
47	Adaptive Kinematic Control of a Robotic Venipuncture Device Based on Stereo Vision, Ultrasound, and Force Guidance. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 1626-1635.	5.2	50
48	Hepatic gap junctions amplify alcohol liver injury by propagating cGAS-mediated IRF3 activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11667-11673.	3.3	50
49	Proposed design of distributed macroalgal biorefineries: thermodynamics, bioconversion technology, and sustainability implications for developing economies. <i>Biofuels, Bioproducts and Biorefining</i> , 2014, 8, 67-82.	1.9	49
50	Cloud-Enabled Microscopy and Droplet Microfluidic Platform for Specific Detection of Escherichia coli in Water. <i>PLoS ONE</i> , 2014, 9, e86341.	1.1	47
51	Nucleic Acid Biotechnology. <i>Annual Review of Biomedical Engineering</i> , 1999, 1, 265-297.	5.7	46
52	Resolving cancer-stroma interfacial signalling and interventions with micropatterned tumour-stromal assays. <i>Nature Communications</i> , 2014, 5, 5662.	5.8	45
53	Skin Rejuvenation with Non-Invasive Pulsed Electric Fields. <i>Scientific Reports</i> , 2015, 5, 10187.	1.6	45
54	A fulminant hepatic failure model in the rat: involvement of interleukin-1beta and tumor necrosis factor-alpha. <i>Digestive Diseases and Sciences</i> , 2001, 46, 1700-1708.	1.1	44

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55	Penetration of Tumor Tissue by Antibodies and Other Immunoproteins. Annals of the New York Academy of Sciences, 1991, 618, 367-382.	1.8	43
56	Metabolic Flux Distribution during Defatting of Steatotic Human Hepatoma (HepG2) Cells. Metabolites, 2016, 6, 1.	1.3	42
57	Prediction of antisense oligonucleotide binding affinity to a structured RNA target. Biotechnology and Bioengineering, 1999, 65, 1-9.	1.7	41
58	Nanolayered siRNA delivery platforms for local silencing of CTGF reduce cutaneous scar contraction in third-degree burns. Biomaterials, 2016, 95, 22-34.	5.7	40
59	Microfluidic platforms for the study of neuronal injury in vitro. Biotechnology and Bioengineering, 2018, 115, 815-830.	1.7	40
60	Optimization of hepatocyte attachment to microcarriers: Importance of oxygen. Biotechnology and Bioengineering, 1993, 42, 579-588.	1.7	38
61	Removal of proteoglycans increases efficiency of retroviral gene transfer. , 1998, 58, 23-34.		38
62	The System Design and Evaluation of a 7-DOF Image-Guided Venipuncture Robot. IEEE Transactions on Robotics, 2015, 31, 1044-1053.	7.3	36
63	Exposure to human immunodeficiency virus/hepatitis C virus in hepatic and stellate cell lines reveals cooperative profibrotic transcriptional activation between viruses and cell types. Hepatology, 2016, 64, 1951-1968.	3.6	36
64	Progressive hypoxiaâ€œonâ€œa chip: An in vitro oxygen gradient model for capturing the effects of hypoxia on primary hepatocytes in health and disease. Biotechnology and Bioengineering, 2020, 117, 763-775.	1.7	36
65	In Vitro and In Vivo Evaluation of Albumin Synthesis Rate of Porcine Hepatocytes in a Flat-Plate Bioreactor. Artificial Organs, 2001, 25, 571-578.	1.0	34
66	Microfluidic flow cytometry: The role of microfabrication methodologies, performance and functional specification. Technology, 2018, 06, 1-23.	1.4	34
67	A microperifusion system with environmental control for studying insulin secretion by pancreatic tissue. Biotechnology Progress, 1991, 7, 359-368.	1.3	33
68	Enriched Protein Screening of Human Bone Marrow Mesenchymal Stromal Cell Secretions Reveals MFAP5 and PENK as Novel IL-10 Modulators. Molecular Therapy, 2014, 22, 999-1007.	3.7	33
69	Nondestructive Methods for Monitoring Cell Removal During Rat Liver Decellularization. Tissue Engineering - Part C: Methods, 2016, 22, 671-678.	1.1	33
70	Pharmacokinetics of Natural and Engineered Secreted Factors Delivered by Mesenchymal Stromal Cells. PLoS ONE, 2014, 9, e89882.	1.1	31
71	First-in-human evaluation of a hand-held automated venipuncture device for rapid venous blood draws. Technology, 2019, 07, 98-107.	1.4	31
72	The importance of proline on long-term hepatocyte function in a collagen gel sandwich configuration: Regulation of protein secretion. Biotechnology and Bioengineering, 1992, 40, 298-305.	1.7	30

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73	Differential Inhibition of Retrovirus Transduction by Proteoglycans and Free Glycosaminoglycans. <i>Biotechnology Progress</i> , 1999, 15, 397-406.	1.3	30
74	A microfluidic 3D hepatocyte chip for hepatotoxicity testing of nanoparticles. <i>Nanomedicine</i> , 2019, 14, 2209-2226.	1.7	30
75	Rat liver regeneration following ablation with irreversible electroporation. <i>PeerJ</i> , 2016, 4, e1571.	0.9	30
76	Dose-, treatment- and time-dependent toxicity of superparamagnetic iron oxide nanoparticles on primary rat hepatocytes. <i>Nanomedicine</i> , 2018, 13, 1267-1284.	1.7	29
77	Layer-by-layer heparinization of decellularized liver matrices to reduce thrombogenicity of recellularized liver grafts. <i>Journal of Clinical and Translational Research</i> , 2015, 1, 48-56.	0.3	29
78	Antibody-Targeted Photolysis.. <i>Annals of the New York Academy of Sciences</i> , 1991, 618, 383-393.	1.8	28
79	Antibody-targeted photolysis: in vitro immunological, photophysical, and cytotoxic properties of monoclonal antibody-dextran-tin(IV) chlorin e6 immunoconjugates. <i>Biotechnology Progress</i> , 1992, 8, 30-39.	1.3	28
80	Autofluorescence of blood and its application in biomedical and clinical research. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4550-4576.	1.7	27
81	Metabolic engineering and human disease. <i>Nature Biotechnology</i> , 1997, 15, 525-528.	9.4	26
82	Keratinocyte growth factor induces hyperproliferation and delays differentiation in a skin equivalent model system. <i>FASEB Journal</i> , 2001, 15, 898-906.	0.2	26
83	A Novel Resolvin-Based Strategy for Limiting Acetaminophen Hepatotoxicity. <i>Clinical and Translational Gastroenterology</i> , 2016, 7, e153.	1.3	26
84	Metabolic effects of stress mediators on cultured hepatocytes. , 1998, 58, 222-230.		23
85	Self-assembled elastin-like polypeptide fusion protein coacervates as competitive inhibitors of advanced glycation end-products enhance diabetic wound healing. <i>Journal of Controlled Release</i> , 2021, 333, 176-187.	4.8	23
86	Advanced technologies for the preservation of mammalian biospecimens. <i>Nature Biomedical Engineering</i> , 2021, 5, 793-804.	11.6	23
87	Identification of IL-1 β and LPS as optimal activators of monolayer and alginate-encapsulated mesenchymal stromal cell immunomodulation using design of experiments and statistical methods. <i>Biotechnology Progress</i> , 2015, 31, 1058-1070.	1.3	22
88	Preventing Scars after Injury with Partial Irreversible Electroporation. <i>Journal of Investigative Dermatology</i> , 2016, 136, 2297-2304.	0.3	22
89	Skin regeneration with all accessory organs following ablation with irreversible electroporation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 98-113.	1.3	22
90	Microdevice integrating innate and adaptive immune responses associated with antigen presentation by dendritic cells. <i>RSC Advances</i> , 2013, 3, 16002.	1.7	21

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91	Real-time needle steering in response to rolling vein deformation by a 9-DOF image-guided autonomous venipuncture robot. , 2015, 2015, 2633-2638.		20
92	Live cell imaging of cytosolic NADH/NAD ⁺ ratio in hepatocytes and liver slices. American Journal of Physiology - Renal Physiology, 2018, 314, G97-G108.	1.6	20
93	Stromal Cell-Derived Growth Factor-1 Alpha-Elastin Like Peptide Fusion Protein Promotes Cell Migration and Revascularization of Experimental Wounds in Diabetic Mice. Advances in Wound Care, 2017, 6, 10-22.	2.6	19
94	Automated end-to-end blood testing at the point-of-care: Integration of robotic phlebotomy with downstream sample processing. Technology, 2018, 06, 59-66.	1.4	19
95	Liver donor age affects hepatocyte function through age-dependent changes in decellularized liver matrix. Biomaterials, 2021, 270, 120689.	5.7	19
96	New technologies in drug metabolism and toxicity screening: organ-to-organ interaction. Expert Opinion on Drug Metabolism and Toxicology, 2016, 12, 475-477.	1.5	18
97	Dynamin and reverse-mode sodium calcium exchanger blockade confers neuroprotection from diffuse axonal injury. Cell Death and Disease, 2019, 10, 727.	2.7	17
98	Deep-supercooling for extended preservation of adipose-derived stem cells. Cryobiology, 2020, 92, 67-75.	0.3	17
99	Pressure-Induced Dissociation of Antigen-Antibody Complexes. Biotechnology Progress, 1998, 14, 773-781.	1.3	16
100	Picoliter droplet microfluidic immunosorbent platform for point-of-care diagnostics of tetanus. Mikrochimica Acta, 2013, 180, 855-860.	2.5	16
101	Simple Machine Perfusion Significantly Enhances Hepatocyte Yields of Ischemic and Fresh Rat Livers. Cell Medicine, 2013, 4, 109-123.	5.0	15
102	Anti-inflammatory effects of haptoglobin on LPS-stimulated macrophages: Role of HMGB1 signaling and implications in chronic wound healing. Wound Repair and Regeneration, 2020, 28, 493-505.	1.5	15
103	Oxygenated UW Solution Decreases ATP Decay and Improves Survival After Transplantation of DCD Liver Grafts. Transplantation, 2019, 103, 363-370.	0.5	14
104	A comparison of hepato-cellular in vitro platforms to study CYP3A4 induction. PLoS ONE, 2020, 15, e0229106.	1.1	14
105	Enhanced function of cultured epithelium by genetic modification: Cell-based synthesis and delivery of growth factors. , 1996, 52, 15-23.		13
106	Discarded Livers Find a New Life: Engineered Liver Grafts Using Hepatocytes Recovered From Marginal Livers. Artificial Organs, 2017, 41, 579-585.	1.0	13
107	Repopulation of intrahepatic bile ducts in engineered rat liver grafts. Technology, 2019, 07, 46-55.	1.4	13
108	3D Near Infrared and Ultrasound Imaging of Peripheral Blood Vessels for Real-Time Localization and Needle Guidance. Lecture Notes in Computer Science, 2016, 9902, 388-396.	1.0	13

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109	Interaction between heat shock and interleukin 6 stimulation in the acute-phase response of human hepatoma (HepG2) cells. <i>Hepatology</i> , 1998, 28, 994-1004.	3.6	12
110	Microfluidic Isolation of CD34-Positive Skin Cells Enables Regeneration of Hair and Sebaceous Glands In Vivo. <i>Stem Cells Translational Medicine</i> , 2014, 3, 1354-1362.	1.6	12
111	The Role of CHI3L1 (Chitinase-3-Like-1) in the Pathogenesis of Infections in Burns in a Mouse Model. <i>PLoS ONE</i> , 2015, 10, e0140440.	1.1	12
112	Sizes and Sufficient Quantities of MSC Microspheres for Intrathecal Injection to Modulate Inflammation in Spinal Cord Injury. <i>Nano LIFE</i> , 2015, 05, 1550004.	0.6	11
113	A novel low-volume two-chamber microfabricated platform for evaluating drug metabolism and toxicity. <i>Technology</i> , 2015, 03, 155-162.	1.4	11
114	CYP450 drug inducibility in NAFLD via an in vitro hepatic model: Understanding drug-drug interactions in the fatty liver. <i>Biomedicine and Pharmacotherapy</i> , 2022, 146, 112377.	2.5	11
115	System design and development of a robotic device for automated venipuncture and diagnostic blood cell analysis. , 2016, 2016, 514-520.		10
116	Single-step electrical field strength screening to determine electroporation induced transmembrane transport parameters. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2041-2049.	1.4	10
117	Prostaglandin E ₂ Produced by Alginate-Encapsulated Mesenchymal Stromal Cells Modulates the Astrocyte Inflammatory Response. <i>Nano LIFE</i> , 2017, 07, 1750005.	0.6	10
118	Impact of Complete Spinal Cord Injury on Healing of Skin Ulcers in Mouse Models. <i>Journal of Neurotrauma</i> , 2018, 35, 815-824.	1.7	10
119	Human-Origin iPSC-Based Recellularization of Decellularized Whole Rat Livers. <i>Bioengineering</i> , 2022, 9, 219.	1.6	10
120	Antibody-targeted Photolysis. <i>Annals of the New York Academy of Sciences</i> , 1994, 745, 297-320.	1.8	9
121	Regulation of Energy Homeostasis After Gastric Bypass Surgery. <i>Annual Review of Biomedical Engineering</i> , 2017, 19, 459-484.	5.7	9
122	Development of liver microtissues with functional biliary ductular network. <i>Biotechnology and Bioengineering</i> , 2021, 118, 17-29.	1.7	9
123	Cell-cell interactions are essential for maintenance of hepatocyte function in collagen gel but not on matrigel. , 1997, 56, 706.		9
124	Microchannel bioreactors for bioartificial liver support. <i>Microfluidics and Nanofluidics</i> , 2006, 2, 525-535.	1.0	8
125	Low Power Laser Irradiation Stimulates the Proliferation of Adult Human Retinal Pigment Epithelial Cells in Culture. <i>Cellular and Molecular Bioengineering</i> , 2009, 2, 87-103.	1.0	8
126	Perspectives on Non-Animal Alternatives for Assessing Sensitization Potential in Allergic Contact Dermatitis. <i>Cellular and Molecular Bioengineering</i> , 2012, 5, 52-72.	1.0	8

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127	Rejuvenation of aged rat skin with pulsed electric fields. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 2309-2318.	1.3	8
128	Development of Metabolic Indicators of Burn Injury: Very Low Density Lipoprotein (VLDL) and Acetoacetate Are Highly Correlated to Severity of Burn Injury in Rats. <i>Metabolites</i> , 2012, 2, 458-478.	1.3	7
129	Efficient Procedure and Methods to Determine Critical Electroporation Parameters. , 2014, , .		7
130	CFD assessment of the effect of convective mass transport on the intracellular clearance of intracellular triglycerides in macrosteatotic hepatocytes. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1095-1102.	1.4	7
131	Rapid maturation of the hepatic cell line Huh7 via CDK inhibition for PXR dependent CYP450 metabolism and induction. <i>Scientific Reports</i> , 2019, 9, 15848.	1.6	7
132	Correction for Label Leakage in Fluorimetric Assays of Cell Adhesion. <i>BioTechniques</i> , 1997, 23, 1056-1060.	0.8	6
133	Functionalized Biopolymer Particles Enhance Performance of a Tissue-Protective Peptide under Proteolytic and Thermal Stress. <i>Biomacromolecules</i> , 2016, 17, 2073-2079.	2.6	6
134	Metabolomic Modularity Analysis (MMA) to Quantify Human Liver Perfusion Dynamics. <i>Metabolites</i> , 2017, 7, 58.	1.3	6
135	Tissue scaffolds functionalized with therapeutic elastin-like biopolymer particles. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1575-1583.	1.7	6
136	Design and Evaluation of a Handheld Robotic Device for Peripheral Catheterization. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2022, 16, 021015.	0.4	6
137	Machine perfusion enhances hepatocyte isolation yields from ischemic livers. <i>Cryobiology</i> , 2015, 71, 244-255.	0.3	5
138	Differential leukocyte counting via fluorescent detection and image processing on a centrifugal microfluidic platform. <i>Analytical Methods</i> , 2016, 8, 8272-8279.	1.3	5
139	Differential Cell Death and Regrowth of Dermal Fibroblasts and Keratinocytes After Application of Pulsed Electric Fields. <i>Bioelectricity</i> , 2020, 2, 175-185.	0.6	5
140	Layer-by-layer Collagen Deposition in Microfluidic Devices for Microtissue Stabilization. <i>Journal of Visualized Experiments</i> , 2015, , .	0.2	4
141	Development of a low-volume, highly sensitive microimmunoassay using computational fluid dynamics-driven multiobjective optimization. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 199-214.	1.0	4
142	Multifunctional Elastin-Like Polypeptide Fusion Protein Coacervates Inhibit Receptor-Mediated Proinflammatory Signals and Promote Angiogenesis in Mouse Diabetic Wounds. <i>Advances in Wound Care</i> , 2023, 12, 241-255.	2.6	4
143	Development of a Microsphere-Based System to Facilitate Real-Time Insulin Monitoring. <i>Journal of Diabetes Science and Technology</i> , 2016, 10, 689-696.	1.3	3
144	Design and Evaluation of a Robotic Device for Automated Tail Vein Cannulations in Rodent Models. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2017, 11, 0410081-410087.	0.4	3

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145	Mouse Model of Pressure Ulcers After Spinal Cord Injury. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	3
146	Developing the World's First Portable Medical Robot for Autonomous Venipuncture [Industrial Activities]. <i>IEEE Robotics and Automation Magazine</i> , 2016, 23, 10-11.	2.2	2
147	A protein interaction free energy model based on amino acid residue contributions: Assessment of point mutation stability of T4 lysozyme. <i>Technology</i> , 2019, 07, 12-39.	1.4	2
148	Kinetics of retrovirus production and decay. , 1999, 63, 654.		2
149	Engineering organ perfusion protocols: NMR analysis of hepatocyte isolation from perfused rat liver. <i>Biotechnology and Bioengineering</i> , 1994, 43, 661-672.	1.7	1
150	THE EMERGING FUTURE AT THE NEXUS OF NANOTECHNOLOGY AND BIOMEDICINE: AN INTRODUCTION TO NANO LIFE. <i>Nano LIFE</i> , 2010, 01, iii-v.	0.6	1
151	ANALYSIS OF DENDRITIC CELL STIMULATION UTILIZING A MULTI-FACETED NANOPOLYMER DELIVERY SYSTEM AND THE IMMUNE MODULATOR 1-METHYL TRYPTOPHAN. <i>Nano LIFE</i> , 2010, 01, 239-250.	0.6	1
152	PPAR Agonists and 3D Alginate Encapsulation Accelerate Oligodendrocyte Differentiation of Mouse Embryonic Stem Cells. <i>Nano LIFE</i> , 2016, 06, 1650003.	0.6	1
153	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. , 1997, 34, 189.		1
154	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. , 1997, 34, 189.		1
155	Analysis of Electrostatic Effects on the Success of Retroviral-Mediated Gene Delivery. <i>Materials Research Society Symposia Proceedings</i> , 2000, 662, 1.	0.1	0
156	Reply:. <i>Hepatology</i> , 2008, 47, 2142-2143.	3.6	0
157	Ultra-Fast Vitrification of Murine Embryonic Stem Cells Using a Low Concentration of Cryoprotectants. , 2008, , .		0
158	Nanoporous Gold: A Biomaterial for Microfabricated Drug-Delivery Platforms. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1415, 48.	0.1	0
159	Macrophage modulation by polymerized hemoglobins: Potential as a wound-healing therapy. <i>Technology</i> , 2019, 07, 84-97.	1.4	0
160	HSymM-guided engineering of the immunodominant p53 transactivation domain putative peptide antigen for improved binding to its anti-p53 monoclonal antibody. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 51, 128341.	1.0	0
161	Design, Construction, and Testing of a Flying Prey Simulator. , 2012, , .		0
162	Multi-layer stackable tissue culture platform for 3D co-culture. <i>Technology</i> , 2020, 08, 37-49.	1.4	0