Max L Balter

List of Publications by Citations

158 papers	7,034 citations	41 h-index	81 g-index
166 ext. papers	8,083 ext. citations	6.3 avg, IF	5.87 L-index

#	Paper	IF	Citations
158	Hepatocyte function and extracellular matrix geometry: long-term culture in a sandwich configuration. *FASEB Journal*, **1989**, 3, 174-7	0.9	658
157	Long-term in vitro function of adult hepatocytes in a collagen sandwich configuration. *Biotechnology Progress*, **1991**, 7, 237-45	2.8	594
156	Electroporation-based technologies for medicine: principles, applications, and challenges. *Annual Review of Biomedical Engineering*, **2014**, 16, 295-320	12	466
155	Controlling cell interactions by micropatterning in co-cultures: hepatocytes and 3T3 fibroblasts. *Journal of Biomedical Materials Research Part B*, **1997**, 34, 189-99		436
154	Effect of extracellular matrix topology on cell structure, function, and physiological responsiveness: hepatocytes cultured in a sandwich configuration. *FASEB Journal*, **1996**, 10, 1471-84	0.9	343
153	Effects of oxygenation and flow on the viability and function of rat hepatocytes cocultured in a microchannel flat-plate bioreactor. *Biotechnology and Bioengineering*, **2001**, 73, 379-89	4.9	276
152	Gut Microbiota-Derived Tryptophan Metabolites Modulate Inflammatory Response in Hepatocytes and Macrophages. *Cell Reports*, **2018**, 23, 1099-1111	10.6	222
151	Hepatic Injury in Nonalcoholic Steatohepatitis Contributes to Altered Intestinal Permeability. *Cellular and Molecular Gastroenterology and Hepatology*, **2015**, 1, 222-232	7.9	147
150	Oxygen uptake rates in cultured rat hepatocytes. *Biotechnology and Bioengineering*, **1992**, 40, 1286-91	4.9	123
149	Keratinocyte growth factor induces hyperproliferation and delays differentiation in a skin equivalent model system. *FASEB Journal*, **2001**, 15, 898-906	0.9	118
148	Living-cell microarrays. *Annual Review of Biomedical Engineering*, **2009**, 11, 235-57	12	117
147	Supercooling enables long-term transplantation survival following 4 days of liver preservation. *Nature Medicine*, **2014**, 20, 790-3	50.5	109
146	The growing role of precision and personalized medicine for cancer treatment. *Technology*, **2018**, 6, 79-100		103
145	A device to measure the oxygen uptake rate of attached cells: importance in bioartificial organ design. *Cell Transplantation*, **1994**, 3, 515-27	4	93
144	Control of hypertrophic scar growth using selective photothermolysis. *Lasers in Surgery and Medicine*, **1997**, 21, 7-12	3.6	92
143	Advances in proteomic technologies. *Annual Review of Biomedical Engineering*, **2002**, 4, 349-73	12	88
142	Proteomic analysis of naturally-sourced biological scaffolds. *Biomaterials*, **2016**, 75, 37-46	15.6	85

141	Large-scale processing of recombinant retroviruses for gene therapy. *Biotechnology Progress*, **1999**, 15, 1-11	2.8	81
140	Kinetics of retrovirus production and decay **1999**, 63, 654-662		74
139	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, 219-25	2.8	73
138	Isolation and co-culture of rat parenchymal and non-parenchymal liver cells to evaluate cellular interactions and response. *Scientific Reports*, **2016**, 6, 25329	4.9	66
137	Tissue heterogeneity in structure and conductivity contribute to cell survival during irreversible electroporation ablation by "electric field sinks". *Scientific Reports*, **2015**, 5, 8485	4.9	65
136	Complexation of retrovirus with cationic and anionic polymers increases the efficiency of gene transfer. *Human Gene Therapy*, **2001**, 12, 1611-21	4.8	61
135	Analysis of oxygen transport to hepatocytes in a flat-plate microchannel bioreactor. *Annals of Biomedical Engineering*, **2001**, 29, 947-55	4.7	60
134	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	15.6	57
133	Metabolic engineering: advances in modeling and intervention in health and disease. *Annual Review of Biomedical Engineering*, **2003**, 5, 349-81	12	56
132	Intrahepatic amino acid and glucose metabolism in a D-galactosamine-induced rat liver failure model. *Hepatology*, **2001**, 34, 360-71	11.2	55
131	Cell-cell interactions are essential for maintenance of hepatocyte function in collagen gel but not on matrigel. *Biotechnology and Bioengineering*, **1997**, 56, 706-11	4.9	54
130	Long-term functional recovery of hepatocytes after cryopreservation in a three-dimensional culture configuration. *Cell Transplantation*, **1992**, 1, 281-92	4	54
129	Metabolic Patterning on a Chip: Towards in vitro Liver Zonation of Primary Rat and Human Hepatocytes. *Scientific Reports*, **2018**, 8, 8951	4.9	50
128	Toward a more accurate quantitation of the activity of recombinant retroviruses: alternatives to titer and multiplicity of infection. *Journal of Virology*, **2000**, 74, 3431-9	6.6	50
127	Predictivity of dog co-culture model, primary human hepatocytes and HepG2 cells for the detection of hepatotoxic drugs in humans. *Toxicology and Applied Pharmacology*, **2014**, 275, 44-61	4.6	49
126	Proline-mediated enhancement of hepatocyte function in a collagen gel sandwich culture configuration. *FASEB Journal*, **1993**, 7, 586-91	0.9	49
125	Surgical models of Roux-en-Y gastric bypass surgery and sleeve gastrectomy in rats and mice. *Nature Protocols*, **2015**, 10, 495-507	18.8	48
124	Proposed design of distributed macroalgal biorefineries: thermodynamics, bioconversion technology, and sustainability implications for developing economies. *Biofuels, Bioproducts and Biorefining*, **2014**, 8, 67-82	5.3	48

123	Multilayered tissue mimicking skin and vessel phantoms with tunable mechanical, optical, and acoustic properties. *Medical Physics*, **2016**, 43, 3117-3131	4.4	47
122	Elastin-like polypeptides: A strategic fusion partner for biologics. *Biotechnology and Bioengineering*, **2016**, 113, 1617-27	4.9	46
121	Eradication of multidrug-resistant pseudomonas biofilm with pulsed electric fields. *Biotechnology and Bioengineering*, **2016**, 113, 643-650	4.9	45
120	Supercooling preservation and transplantation of the rat liver. *Nature Protocols*, **2015**, 10, 484-94	18.8	44
119	Long-term deep-supercooling of large-volume water and red cell suspensions via surface sealing with immiscible liquids. *Nature Communications*, **2018**, 9, 3201	17.4	41
118	Antibody-targeted photolysis of bacteria in vivo. *Nature Biotechnology*, **1994**, 12, 703-6	44.5	41
117	The development and characterization of SDF1□elastin-like-peptide nanoparticles for wound healing. *Journal of Controlled Release*, **2016**, 232, 238-47	11.7	41
116	Alginate micro-encapsulation of mesenchymal stromal cells enhances modulation of the neuro-inflammatory response. *Cytotherapy*, **2015**, 17, 1353-64	4.8	40
115	Cloud-enabled microscopy and droplet microfluidic platform for specific detection of Escherichia coli in water. *PLoS ONE*, **2014**, 9, e86341	3.7	40
114	Improving functional re-endothelialization of acellular liver scaffold using REDV cell-binding domain. *Acta Biomaterialia*, **2018**, 78, 151-164	10.8	39
113	Nucleic acid biotechnology. *Annual Review of Biomedical Engineering*, **1999**, 1, 265-97	12	39
112	A Microfabricated Platform for Generating Physiologically-Relevant Hepatocyte Zonation. *Scientific Reports*, **2016**, 6, 26868	4.9	39
111	Penetration of tumor tissue by antibodies and other immunoproteins. *Annals of the New York Academy of Sciences*, **1991**, 618, 367-82	6.5	37
110	Metabolic Flux Distribution during Defatting of Steatotic Human Hepatoma (HepG2) Cells. *Metabolites*, **2016**, 6,	5.6	37
109	Decellularized human liver extracellular matrix (hDLM)-mediated hepatic differentiation of human induced pluripotent stem cells (hIPSCs). *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e1962-e1973	4.4	37
108	Resolving cancer-stroma interfacial signalling and interventions with micropatterned tumour-stromal assays. *Nature Communications*, **2014**, 5, 5662	17.4	36
107	A fulminant hepatic failure model in the rat: involvement of interleukin-1beta and tumor necrosis factor-alpha. *Digestive Diseases and Sciences*, **2001**, 46, 1700-8	4	36
106	Prediction of antisense oligonucleotide binding affinity to a structured RNA target. *Biotechnology and Bioengineering*, **1999**, 65, 1-9	4.9	36

105	Optimization of hepatocyte attachment to microcarriers: Importance of oxygen. *Biotechnology and Bioengineering*, **1993**, 42, 579-88	4.9	34
104	Adaptive Kinematic Control of a Robotic Venipuncture Device Based on Stereo Vision, Ultrasound, and Force Guidance. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 1626-1635	8.9	33
103	Skin rejuvenation with non-invasive pulsed electric fields. *Scientific Reports*, **2015**, 5, 10187	4.9	32
102	A microperifusion system with environmental control for studying insulin secretion by pancreatic tissue. *Biotechnology Progress*, **1991**, 7, 359-68	2.8	32
101	Nanolayered siRNA delivery platforms for local silencing of CTGF reduce cutaneous scar contraction in third-degree burns. *Biomaterials*, **2016**, 95, 22-34	15.6	32
100	Deep learning robotic guidance for autonomous vascular access. *Nature Machine Intelligence*, **2020**, 2, 104-115	22.5	31
99	In vitro and in vivo evaluation of albumin synthesis rate of porcine hepatocytes in a flat-plate bioreactor. *Artificial Organs*, **2001**, 25, 571-8	2.6	29
98	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	11.7	28
97	Removal of proteoglycans increases efficiency of retroviral gene transfer **1998**, 58, 23-34		28
96	Antibody-targeted photolysis: in vitro immunological, photophysical, and cytotoxic properties of monoclonal antibody-dextran-Sn(IV) chlorin e6 immunoconjugates. *Biotechnology Progress*, **1992**, 8, 30-9	2.8	28
95	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	4.9	27
94	Antibody-targeted photolysis. Bacteriocidal effects of Sn (IV) chlorin e6-dextran-monoclonal antibody conjugates. *Annals of the New York Academy of Sciences*, **1991**, 618, 383-93	6.5	26
93	Nondestructive Methods for Monitoring Cell Removal During Rat Liver Decellularization. *Tissue Engineering - Part C: Methods*, **2016**, 22, 671-8	2.9	26
92	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	11.2	25
91	Keratinocyte growth factor induces hyperproliferation and delays differentiation in a skin equivalent model system. *FASEB Journal*, **2001**, 15, 898-906	0.9	25
90	Rat liver regeneration following ablation with irreversible electroporation. *PeerJ*, **2016**, 4, e1571	3.1	25
89	Hepatic gap junctions amplify alcohol liver injury by propagating cGAS-mediated IRF3 activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 11667-11673	11.5	23
88	Microfluidic platforms for the study of neuronal injury in vitro. *Biotechnology and Bioengineering*, **2018**, 115, 815-830	4.9	23

87	Microfluidic flow cytometry: The role of microfabrication methodologies, performance and functional specification. *Technology*, **2018**, 6, 1-23	3	23
86	Pharmacokinetics of natural and engineered secreted factors delivered by mesenchymal stromal cells. *PLoS ONE*, **2014**, 9, e89882	3.7	23
85	Differential inhibition of retrovirus transduction by proteoglycans and free glycosaminoglycans. *Biotechnology Progress*, **1999**, 15, 397-406	2.8	23
84	Metabolic engineering and human disease. *Nature Biotechnology*, **1997**, 15, 525-8	44.5	22
83	Metabolic effects of stress mediators on cultured hepatocytes **1998**, 58, 222-230		21
82	A Novel Resolvin-Based Strategy for Limiting Acetaminophen Hepatotoxicity. *Clinical and Translational Gastroenterology*, **2016**, 7, e153	4.2	20
81	A microfluidic 3D hepatocyte chip for hepatotoxicity testing of nanoparticles. *Nanomedicine*, **2019**, 14, 2209-2226	5.6	20
80	Progressive hypoxia-on-a-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	4.9	19
79	Dose-, treatment- and time-dependent toxicity of superparamagnetic iron oxide nanoparticles on primary rat hepatocytes. *Nanomedicine*, **2018**, 13, 1267-1284	5.6	19
78	The System Design and Evaluation of a 7-DOF Image-Guided Venipuncture Robot. *IEEE Transactions on Robotics*, **2015**, 31, 1044-1053	6.5	18
77	Identification of IL-1 and LPS as optimal activators of monolayer and alginate-encapsulated mesenchymal stromal cell immunomodulation using design of experiments and statistical methods. *Biotechnology Progress*, **2015**, 31, 1058-70	2.8	18
76	Layer-by-layer heparinization of decellularized liver matrices to reduce thrombogenicity of tissue engineered grafts. *Journal of Clinical and Translational Research*, **2015**, 1, 48-56	1.1	17
75	First-in-human evaluation of a hand-held automated venipuncture device for rapid venous blood draws. *Technology*, **2019**, 7, 98-107	3	17
74	Skin regeneration with all accessory organs following ablation with irreversible electroporation. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 98-113	4.4	16
73	Preventing Scars after Injury with Partial Irreversible Electroporation. *Journal of Investigative Dermatology*, **2016**, 136, 2297-2304	4.3	16
72	Pressure-induced dissociation of antigen-antibody complexes. *Biotechnology Progress*, **1998**, 14, 773-81	2.8	15
71	Picoliter droplet microfluidic immunosorbent platform for point-of-care diagnostics of tetanus. *Mikrochimica Acta*, **2013**, 180, 855-860	5.8	14
70	Microdevice integrating innate and adaptive immune responses associated with antigen presentation by dendritic cells. *RSC Advances*, **2013**, 3, 16002-16010	3.7	14

69	New technologies in drug metabolism and toxicity screening: organ-to-organ interaction. *Expert Opinion on Drug Metabolism and Toxicology*, **2016**, 12, 475-7	5.5	14
68	Real-time Needle Steering in Response to Rolling Vein Deformation by a 9-DOF Image-Guided Autonomous Venipuncture Robot. *IEEE International Conference on Intelligent Robots and Systems*, **2015**, 2015, 2633-2638	0.6	13
67	SIMPLE MACHINE PERFUSION SIGNIFICANTLY ENHANCES HEPATOCYTE YIELDS OF ISCHEMIC AND FRESH RAT LIVERS. *Cell Medicine*, **2013**, 4, 109-123	4.9	13
66	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	4.8	12
65	The Role of CHI3L1 (Chitinase-3-Like-1) in the Pathogenesis of Infections in Burns in a Mouse Model. *PLoS ONE*, **2015**, 10, e0140440	3.7	11
64	Enhanced function of cultured epithelium by genetic modification: Cell-based synthesis and delivery of growth factors. *Biotechnology and Bioengineering*, **1996**, 52, 15-23	4.9	11
63	Dynamin and reverse-mode sodium calcium exchanger blockade confers neuroprotection from diffuse axonal injury. *Cell Death and Disease*, **2019**, 10, 727	9.8	10
62	Interaction between heat shock and interleukin 6 stimulation in the acute-phase response of human hepatoma (HepG2) cells. *Hepatology*, **1998**, 28, 994-1004	11.2	10
61	Automated end-to-end blood testing at the point-of-care: Integration of robotic phlebotomy with downstream sample processing. *Technology*, **2018**, 6, 59-66	3	10
60	A novel low-volume two-chamber microfabricated platform for evaluating drug metabolism and toxicity. *Technology*, **2015**, 3, 155-162	3	9
59	A comparison of hepato-cellular in vitro platforms to study CYP3A4 induction. *PLoS ONE*, **2020**, 15, e0229106	3.7	9
58	Microfluidic Isolation of CD34-Positive Skin Cells Enables Regeneration of Hair and Sebaceous Glands In Vivo. *Stem Cells Translational Medicine*, **2014**, 3, 1354-62	6.9	9
57	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	0.9	9
56	Deep-supercooling for extended preservation of adipose-derived stem cells. *Cryobiology*, **2020**, 92, 67-75	2.7	9
55	Cell-cell interactions are essential for maintenance of hepatocyte function in collagen gel but not on matrigel **1997**, 56, 706		9
54	Live cell imaging of cytosolic NADH/NAD ratio in hepatocytes and liver slices. *American Journal of Physiology - Renal Physiology*, **2018**, 314, G97-G108	5.1	8
53	Perspectives on Non-Animal Alternatives for Assessing Sensitization Potential in Allergic Contact Dermatitis. *Cellular and Molecular Bioengineering*, **2012**, 5, 52-72	3.9	8
52	Discarded Livers Find a New Life: Engineered Liver Grafts Using Hepatocytes Recovered From Marginal Livers. *Artificial Organs*, **2017**, 41, 579-585	2.6	8

51	Antibody-targeted Photolysis. *Annals of the New York Academy of Sciences*, **2006**, 745, 297-320	6.5	8
50	Oxygenated UW Solution Decreases ATP Decay and Improves Survival After Transplantation of DCD Liver Grafts. *Transplantation*, **2019**, 103, 363-370	1.8	8
49	Repopulation of intrahepatic bile ducts in engineered rat liver grafts. *Technology*, **2019**, 7, 46-55	3	7
48	Single-step electrical field strength screening to determine electroporation induced transmembrane transport parameters. *Biochimica Et Biophysica Acta - Biomembranes*, **2016**, 1858, 2041-2049	3.8	7
47	Liver donor age affects hepatocyte function through age-dependent changes in decellularized liver matrix. *Biomaterials*, **2021**, 270, 120689	15.6	7
46	Self-assembled elastin-like polypeptide fusion protein coacervates as competitive inhibitors of advanced glycation end-products enhance diabetic wound healing. *Journal of Controlled Release*, **2021**, 333, 176-187	11.7	7
45	Metabolomic Modularity Analysis (MMA) to Quantify Human Liver Perfusion Dynamics. *Metabolites*, **2017**, 7,	5.6	6
44	Microchannel bioreactors for bioartificial liver support. *Microfluidics and Nanofluidics*, **2006**, 2, 525-535	2.8	6
43	Impact of Complete Spinal Cord Injury on Healing of Skin Ulcers in Mouse Models. *Journal of Neurotrauma*, **2018**, 35, 815-824	5.4	6
42	CFD assessment of the effect of convective mass transport on the intracellular clearance of intracellular triglycerides in macrosteatotic hepatocytes. *Biomechanics and Modeling in Mechanobiology*, **2017**, 16, 1095-1102	3.8	5
41	Regulation of Energy Homeostasis After Gastric Bypass Surgery. *Annual Review of Biomedical Engineering*, **2017**, 19, 459-484	12	5
40	Machine perfusion enhances hepatocyte isolation yields from ischemic livers. *Cryobiology*, **2015**, 71, 244-255	2.7	5
39	Functionalized Biopolymer Particles Enhance Performance of a Tissue-Protective Peptide under Proteolytic and Thermal Stress. *Biomacromolecules*, **2016**, 17, 2073-9	6.9	5
38	Sizes and Sufficient Quantities of MSC Microspheres for Intrathecal Injection to Modulate Inflammation in Spinal Cord Injury. *Nano LIFE*, **2015**, 5,	0.9	5
37	Development of Metabolic Indicators of Burn Injury: Very Low Density Lipoprotein (VLDL) and Acetoacetate Are Highly Correlated to Severity of Burn Injury in Rats. *Metabolites*, **2012**, 2, 458-78	5.6	5
36	Correction for label leakage in fluorimetric assays of cell adhesion. *BioTechniques*, **1997**, 23, 1056-60	2.5	5
35	System Design and Development of a Robotic Device for Automated Venipuncture and Diagnostic Blood Cell Analysis. *IEEE International Conference on Intelligent Robots and Systems*, **2016**, 2016, 514-520	0.6	5
34	Rejuvenation of aged rat skin with pulsed electric fields. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 2309-2318	4.4	5

33	Prostaglandin E Produced by Alginate-Encapsulated Mesenchymal Stromal Cells Modulates the Astrocyte Inflammatory Response. *Nano LIFE*, **2017**, 7,	0.9	4
32	Development of a low-volume, highly sensitive microimmunoassay using computational fluid dynamics-driven multiobjective optimization. *Microfluidics and Nanofluidics*, **2015**, 18, 199-214	2.8	4
31	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	3.6	4
30	Differential Leukocyte Counting via Fluorescent Detection and Image Processing on a Centrifugal Microfluidic Platform. *Analytical Methods*, **2016**, 8, 8272-8279	3.2	4
29	Efficient Procedure and Methods to Determine Critical Electroporation Parameters **2014**,		4
28	Low Power Laser Irradiation Stimulates the Proliferation of Adult Human Retinal Pigment Epithelial Cells in Culture. *Cellular and Molecular Bioengineering*, **2009**, 2, 87-103	3.9	4
27	Development of liver microtissues with functional biliary ductular network. *Biotechnology and Bioengineering*, **2021**, 118, 17-29	4.9	4
26	Advanced technologies for the preservation of mammalian biospecimens. *Nature Biomedical Engineering*, **2021**, 5, 793-804	19	4
25	Tissue scaffolds functionalized with therapeutic elastin-like biopolymer particles. *Biotechnology and Bioengineering*, **2020**, 117, 1575-1583	4.9	4
24	Development of a Microsphere-Based System to Facilitate Real-Time Insulin Monitoring. *Journal of Diabetes Science and Technology*, **2016**, 10, 689-96	4.1	3
23	Layer-by-layer Collagen Deposition in Microfluidic Devices for Microtissue Stabilization. *Journal of Visualized Experiments*, **2015**,	1.6	3
22	A protein interaction free energy model based on amino acid residue contributions: Assessment of point mutation stability of T4 lysozyme. *Technology*, **2019**, 7, 12-39	3	2
21	Mouse Model of Pressure Ulcers After Spinal Cord Injury. *Journal of Visualized Experiments*, **2019**,	1.6	2
20	Differential Cell Death and Regrowth of Dermal Fibroblasts and Keratinocytes After Application of Pulsed Electric Fields. *Bioelectricity*, **2020**, 2, 175-185	2	2
19	Rapid maturation of the hepatic cell line Huh7 via CDK inhibition for PXR dependent CYP450 metabolism and induction. *Scientific Reports*, **2019**, 9, 15848	4.9	2
18	Kinetics of retrovirus production and decay **1999**, 63, 654		2
17	Design and Evaluation of a Robotic Device for Automated Tail Vein Cannulations in Rodent Models. *Journal of Medical Devices, Transactions of the ASME*, **2017**, 11, 0410081-410087	1.3	1
16	Developing the World?s First Portable Medical Robot for Autonomous Venipuncture [Industrial Activities]. *IEEE Robotics and Automation Magazine*, **2016**, 23, 10-11	3.4	1

15	ANALYSIS OF DENDRITIC CELL STIMULATION UTILIZING A MULTI-FACETED NANOPOLYMER DELIVERY SYSTEM AND THE IMMUNE MODULATOR 1-METHYL TRYPTOPHAN. *Nano LIFE*, **2010**, 1, 239-250	0.9	1
14	Engineering organ perfusion protocols: NMR analysis of hepatocyte isolation from perfused rat liver. *Biotechnology and Bioengineering*, **1994**, 43, 661-72	4.9	1
13	PPAR Agonists and 3D Alginate Encapsulation Accelerate Oligodendrocyte Differentiation of Mouse Embryonic Stem Cells. *Nano LIFE*, **2016**, 06, 1650003	0.9	1
12	Autofluorescence of blood and its application in biomedical and clinical research. *Biotechnology and Bioengineering*, **2021**, 118, 4550-4576	4.9	1
11	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts **1997**, 34, 189		1
10	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts **1997**, 34, 189		1
9	Human-Origin iPSC-Based Recellularization of Decellularized Whole Rat Livers. *Bioengineering*, **2022**, 9, 219	5.3	1
8	Design and Evaluation of a Handheld Robotic Device for Peripheral Catheterization.. *Journal of Medical Devices, Transactions of the ASME*, **2022**, 16, 021015	1.3	0
7	CYP450 drug inducibility in NAFLD via an in vitro hepatic model: Understanding drug-drug interactions in the fatty liver.. *Biomedicine and Pharmacotherapy*, **2022**, 146, 112377	7.5	0
6	Nanoporous Gold: A Biomaterial for Microfabricated Drug-Delivery Platforms. *Materials Research Society Symposia Proceedings*, **2012**, 1415, 48		
5	Reply:. *Hepatology*, **2008**, 47, 2142-2143	11.2	
4	Analysis of Electrostatic Effects on the Success of Retroviral-Mediated Gene Delivery. *Materials Research Society Symposia Proceedings*, **2000**, 662, 1		
3	Multi-layer stackable tissue culture platform for 3D co-culture **2020**, 08, 37-49		
2	Macrophage modulation by polymerized hemoglobins: Potential as a wound-healing therapy **2019**, 07, 84-97		
1	HSymM-guided engineering of the immunodominant p53 transactivation domain putative peptide antigen for improved binding to its anti-p53 monoclonal antibody. *Bioorganic and Medicinal Chemistry Letters*, **2021**, 51, 128341	2.9	