

Henry Yu

List of Publications by Year in descending order

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319
papers

12,537
citations

24978

57
h-index

40881

93
g-index

338
all docs

338
docs citations

338
times ranked

17222
citing authors

#	ARTICLE	IF	CITATIONS
1	A practical guide to microfluidic perfusion culture of adherent mammalian cells. <i>Lab on A Chip</i> , 2007, 7, 681.	3.1	409
2	A novel 3D mammalian cell perfusion-culture system in microfluidic channels. <i>Lab on A Chip</i> , 2007, 7, 302.	3.1	392
3	A microfluidic 3D hepatocyte chip for drug toxicity testing. <i>Lab on A Chip</i> , 2009, 9, 2026.	3.1	378
4	Single-Cell Transcriptomic Atlas of Primate Ovarian Aging. <i>Cell</i> , 2020, 180, 585-600.e19.	13.5	306
5	Towards a human-on-chip: Culturing multiple cell types on a chip with compartmentalized microenvironments. <i>Lab on A Chip</i> , 2009, 9, 3185.	3.1	302
6	Fast Fabrication of Flexible Functional Circuits Based on Liquid Metal Dual-Color Trans Printing. <i>Advanced Materials</i> , 2015, 27, 7109-7116.	11.1	246
7	Kinectin, a major kinesin-binding protein on ER. <i>Journal of Cell Biology</i> , 1992, 118, 1121-1131.	2.3	213
8	Molecular Requirements for Bi-directional Movement of Phagosomes Along Microtubules. <i>Journal of Cell Biology</i> , 1997, 137, 113-129.	2.3	212
9	Mechanotransduction In Vivo by Repeated Talin Stretch-Relaxation Events Depends upon Vinculin. <i>PLoS Biology</i> , 2011, 9, e1001223.	2.6	180
10	Peripheral nerve regeneration with sustained release of poly(phosphoester) microencapsulated nerve growth factor within nerve guide conduits. <i>Biomaterials</i> , 2003, 24, 2405-2412.	5.7	172
11	A new nerve guide conduit material composed of a biodegradable poly(phosphoester). <i>Biomaterials</i> , 2001, 22, 1157-1169.	5.7	165
12	A gel-free 3D microfluidic cell culture system. <i>Biomaterials</i> , 2008, 29, 3237-3244.	5.7	157
13	Kinectin, an essential anchor for kinesin-driven vesicle motility. <i>Science</i> , 1995, 267, 1834-1837.	6.0	153
14	Enhanced activation of STAT pathways and overexpression of survivin confer resistance to FLT3 inhibitors and could be therapeutic targets in AML. <i>Blood</i> , 2009, 113, 4052-4062.	0.6	144
15	qFibrosis: A fully-quantitative innovative method incorporating histological features to facilitate accurate fibrosis scoring in animal model and chronic hepatitis B patients. <i>Journal of Hepatology</i> , 2014, 61, 260-269.	1.8	127
16	Heralding a new paradigm in 3D tumor modeling. <i>Biomaterials</i> , 2016, 108, 197-213.	5.7	127
17	PTEN-L is a novel protein phosphatase for ubiquitin dephosphorylation to inhibit PINK1/Parkin-mediated mitophagy. <i>Cell Research</i> , 2018, 28, 787-802.	5.7	124
18	Polyphosphoester microspheres for sustained release of biologically active nerve growth factor. <i>Biomaterials</i> , 2002, 23, 3765-3772.	5.7	120

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19	Cell Culture on MEMS Platforms: A Review. <i>International Journal of Molecular Sciences</i> , 2009, 10, 5411-5441.	1.8	120
20	The root of reduced fertility in aged women and possible therapeutic options: Current status and future prospects. <i>Molecular Aspects of Medicine</i> , 2014, 38, 54-85.	2.7	117
21	Hepatocyte Encapsulation for Enhanced Cellular Functions. <i>Tissue Engineering</i> , 2000, 6, 481-495.	4.9	113
22	Engineering a scaffold-free 3D tumor model for in vitro drug penetration studies. <i>Biomaterials</i> , 2010, 31, 1180-1190.	5.7	113
23	Nonlinear optical microscopy: use of second harmonic generation and two-photon microscopy for automated quantitative liver fibrosis studies. <i>Journal of Biomedical Optics</i> , 2008, 13, 064010.	1.4	109
24	Biomedical Implementation of Liquid Metal Ink as Drawable ECG Electrode and Skin Circuit. <i>PLoS ONE</i> , 2013, 8, e58771.	1.1	108
25	A graphene-based electrochemical filter for water purification. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16554-16562.	5.2	108
26	MicroRNA-20a-5p promotes colorectal cancer invasion and metastasis by downregulating Smad4. <i>Oncotarget</i> , 2016, 7, 45199-45213.	0.8	104
27	3D hepatocyte monolayer on hybrid RGD/galactose substratum. <i>Biomaterials</i> , 2006, 27, 5669-5680.	5.7	100
28	Targeted elimination of mutant mitochondrial DNA in MELAS-iPSCs by mitoTALENs. <i>Protein and Cell</i> , 2018, 9, 283-297.	4.8	96
29	Regeneration of Alveolar Type I and II Cells from Scgb1a1-Expressing Cells following Severe Pulmonary Damage Induced by Bleomycin and Influenza. <i>PLoS ONE</i> , 2012, 7, e48451.	1.1	94
30	CRISPR/Cas9-mediated targeted gene correction in amyotrophic lateral sclerosis patient iPSCs. <i>Protein and Cell</i> , 2017, 8, 365-378.	4.8	93
31	Myosin Va Bound to Phagosomes Binds to F-Actin and Delays Microtubule-dependent Motility. <i>Molecular Biology of the Cell</i> , 2001, 12, 2742-2755.	0.9	91
32	miR-181a-5p promotes the progression of gastric cancer via RASSF6-mediated MAPK signalling activation. <i>Cancer Letters</i> , 2017, 389, 11-22.	3.2	88
33	Single-cell transcriptomic atlas of primate cardiopulmonary aging. <i>Cell Research</i> , 2021, 31, 415-432.	5.7	88
34	Direct Detection of Collagenous Proteins by Fluorescently Labeled Collagen Mimetic Peptides. <i>Bioconjugate Chemistry</i> , 2013, 24, 9-16.	1.8	86
35	Metabolic Remodeling during Liver Regeneration. <i>Developmental Cell</i> , 2018, 47, 425-438.e5.	3.1	86
36	Galactosylated PVDF membrane promotes hepatocyte attachment and functional maintenance. <i>Biomaterials</i> , 2003, 24, 4893-4903.	5.7	82

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37	A perfusion incubator liver chip for 3D cell culture with application on chronic hepatotoxicity testing. <i>Scientific Reports</i> , 2017, 7, 14528.	1.6	82
38	Fish and Chips: a microfluidic perfusion platform for monitoring zebrafish development. <i>Lab on A Chip</i> , 2012, 12, 892-900.	3.1	81
39	Channelless Fabrication for Large-scale Preparation of Room Temperature Liquid Metal Droplets. <i>Advanced Engineering Materials</i> , 2014, 16, 255-262.	1.6	81
40	Deep learning enables automated scoring of liver fibrosis stages. <i>Scientific Reports</i> , 2018, 8, 16016.	1.6	81
41	Sirt3 prevents maternal obesity-associated oxidative stress and meiotic defects in mouse oocytes. <i>Cell Cycle</i> , 2015, 14, 2959-2968.	1.3	80
42	Fabrication of poly(phosphoester) nerve guides by immersion precipitation and the control of porosity. <i>Biomaterials</i> , 2001, 22, 1147-1156.	5.7	76
43	Synthetic sandwich culture of 3D hepatocyte monolayer. <i>Biomaterials</i> , 2008, 29, 290-301.	5.7	74
44	Multi-layered microcapsules for cell encapsulation. <i>Biomaterials</i> , 2002, 23, 849-856.	5.7	73
45	Fibro-C-Index: comprehensive, morphology-based quantification of liver fibrosis using second harmonic generation and two-photon microscopy. <i>Journal of Biomedical Optics</i> , 2009, 14, 044013.	1.4	73
46	Hydrogel-based colorectal cancer organoid co-culture models. <i>Acta Biomaterialia</i> , 2021, 132, 461-472.	4.1	72
47	A ratiometric fluorescent molecular probe with enhanced two-photon response upon Zn ²⁺ binding for in vitro and in vivo bioimaging. <i>Chemical Science</i> , 2014, 5, 3469-3474.	3.7	68
48	Stem cells in microfluidics. <i>Biotechnology Progress</i> , 2009, 25, 52-60.	1.3	67
49	Extracellular matrix scaffolding guides lumen elongation by inducing anisotropic intercellular mechanical tension. <i>Nature Cell Biology</i> , 2016, 18, 311-318.	4.6	67
50	A small molecule activator of SIRT3 promotes deacetylation and activation of manganese superoxide dismutase. <i>Free Radical Biology and Medicine</i> , 2017, 112, 287-297.	1.3	67
51	Digital CRISPR-based method for the rapid detection and absolute quantification of nucleic acids. <i>Biomaterials</i> , 2021, 274, 120876.	5.7	65
52	Transgene Expression in the Brain Stem Effected by Intramuscular Injection of Polyethylenimine/DNA Complexes. <i>Molecular Therapy</i> , 2001, 3, 658-664.	3.7	64
53	CNS gene transfer mediated by a novel controlled release system based on DNA complexes of degradable polycation PPE-EA: a comparison with polyethylenimine/DNA complexes. <i>Gene Therapy</i> , 2004, 11, 109-114.	2.3	64
54	Increased HMGB1 and cleaved caspase-3 stimulate the proliferation of tumor cells and are correlated with the poor prognosis in colorectal cancer. <i>Journal of Experimental and Clinical Cancer Research</i> , 2015, 34, 51.	3.5	64

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55	miR-4775 promotes colorectal cancer invasion and metastasis via the Smad7/TGF β -mediated epithelial to mesenchymal transition. <i>Molecular Cancer</i> , 2017, 16, 12.	7.9	64
56	Generation of mature kupffer cells from human induced pluripotent stem cells. <i>Biomaterials</i> , 2019, 192, 377-391.	5.7	64
57	Cost-effective differentiation of hepatocyte-like cells from human pluripotent stem cells using small molecules. <i>Biomaterials</i> , 2015, 70, 115-125.	5.7	62
58	A Cellular Pathway Involved in Clara Cell to Alveolar Type II Cell Differentiation after Severe Lung Injury. <i>PLoS ONE</i> , 2013, 8, e71028.	1.1	61
59	Microcapsules with improved mechanical stability for hepatocyte culture. <i>Biomaterials</i> , 2003, 24, 1771-1780.	5.7	60
60	Laminar-flow immediate-overlay hepatocyte sandwich perfusion system for drug hepatotoxicity testing. <i>Biomaterials</i> , 2009, 30, 5927-5936.	5.7	60
61	A pump-free microfluidic 3D perfusion platform for the efficient differentiation of human hepatocyte-like cells. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2360-2370.	1.7	60
62	Galactosylated cellulosic sponge for multi-well drug safety testing. <i>Biomaterials</i> , 2011, 32, 6982-6994.	5.7	59
63	Effects of combined epidermal growth factor, brain-derived neurotrophic factor and insulin-like growth factor-1 on human oocyte maturation and early fertilized and cloned embryo development. <i>Human Reproduction</i> , 2012, 27, 2146-2159.	0.4	59
64	PRL-3, a Metastasis Associated Tyrosine Phosphatase, Is Involved in FLT3-ITD Signaling and Implicated in Anti-AML Therapy. <i>PLoS ONE</i> , 2011, 6, e19798.	1.1	59
65	Cellular responses to a nanofibrous environment. <i>Nano Today</i> , 2006, 1, 34-43.	6.2	58
66	Overall Blastocyst Quality, Trophectoderm Grade, and Inner Cell Mass Grade Predict Pregnancy Outcome in Euploid Blastocyst Transfer Cycles. <i>Chinese Medical Journal</i> , 2018, 131, 1261-1267.	0.9	57
67	Assessment of liver steatosis and fibrosis in rats using integrated coherent anti-Stokes Raman scattering and multiphoton imaging technique. <i>Journal of Biomedical Optics</i> , 2011, 16, 1.	1.4	56
68	Tethered spheroids as an <i>in vitro</i> hepatocyte model for drug safety screening. <i>Biomaterials</i> , 2012, 33, 2165-2176.	5.7	56
69	Generation of matched patient-derived xenograft <i>in vitro</i> - <i>in vivo</i> models using 3D macroporous hydrogels for the study of liver cancer. <i>Biomaterials</i> , 2018, 159, 229-240.	5.7	56
70	Scalable alignment of three-dimensional cellular constructs in a microfluidic chip. <i>Lab on A Chip</i> , 2013, 13, 4124.	3.1	55
71	Experimenting Liver Fibrosis Diagnostic by Two Photon Excitation Microscopy and Bag-of-Features Image Classification. <i>Scientific Reports</i> , 2014, 4, 4636.	1.6	55
72	Purpose-driven biomaterials research in liver-tissue engineering. <i>Trends in Biotechnology</i> , 2011, 29, 110-118.	4.9	54

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73	A robust high-throughput sandwich cell-based drug screening platform. <i>Biomaterials</i> , 2011, 32, 1229-1241.	5.7	54
74	Rescue of premature aging defects in Cockayne syndrome stem cells by CRISPR/Cas9-mediated gene correction. <i>Protein and Cell</i> , 2020, 11, 1-22.	4.8	54
75	Hepatitis C Virus Network Based Classification of Hepatocellular Cirrhosis and Carcinoma. <i>PLoS ONE</i> , 2012, 7, e34460.	1.1	52
76	TGF- β 1 regulation in hepatocyte-NIH3T3 co-culture is important for the enhanced hepatocyte function in 3D microenvironment. <i>Biotechnology and Bioengineering</i> , 2005, 89, 565-573.	1.7	51
77	Visualization of aging-associated chromatin alterations with an engineered TALE system. <i>Cell Research</i> , 2017, 27, 483-504.	5.7	51
78	DNA methylation reprogramming of functional elements during mammalian embryonic development. <i>Cell Discovery</i> , 2018, 4, 41.	3.1	51
79	Kinectin-Kinesin Binding Domains and Their Effects on Organelle Motility. <i>Journal of Biological Chemistry</i> , 2000, 275, 32854-32860.	1.6	50
80	Photo-crosslinkable microcapsules formed by polyelectrolyte copolymer and modified collagen for rat hepatocyte encapsulation. <i>Biomaterials</i> , 2004, 25, 3531-3540.	5.7	50
81	3D Culture as a Clinically Relevant Model for Personalized Medicine. <i>SLAS Technology</i> , 2017, 22, 245-253.	1.0	50
82	Novel Intra-Tissue Perfusion System for Culturing Thick Liver Tissue. <i>Tissue Engineering</i> , 2007, 13, 2345-2356.	4.9	49
83	Single-nucleus transcriptomic landscape of primate hippocampal aging. <i>Protein and Cell</i> , 2021, 12, 695-716.	4.8	49
84	Perfusion Culture Improves the Maintenance of Cultured Liver Tissue Slices. <i>Tissue Engineering</i> , 2007, 13, 197-205.	4.9	48
85	Hepatic spheroids used as an in vitro model to study malaria relapse. <i>Biomaterials</i> , 2019, 216, 119221.	5.7	48
86	Characterization of flow direction in microchannels and zebrafish blood vessels by scanning fluorescence correlation spectroscopy. <i>Journal of Biomedical Optics</i> , 2007, 12, 014034.	1.4	47
87	Preparation of three-dimensional interconnected macroporous cellulosic hydrogels for soft tissue engineering. <i>Biomaterials</i> , 2010, 31, 8141-8152.	5.7	47
88	Patient-specific hepatocyte-like cells derived from induced pluripotent stem cells model pazopanib-mediated hepatotoxicity. <i>Scientific Reports</i> , 2017, 7, 41238.	1.6	47
89	Quantification of liver fibrosis via second harmonic imaging of the Glisson's capsule from liver surface. <i>Journal of Biophotonics</i> , 2016, 9, 351-363.	1.1	46
90	Mechanosensing in liver regeneration. <i>Seminars in Cell and Developmental Biology</i> , 2017, 71, 153-167.	2.3	46

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91	Influence of Calcination Temperature on Activity and Selectivity of Ni ²⁺ /CeO ₂ and Ni ²⁺ /Ce _{0.8} Zr _{0.2} O ₂ Catalysts for CO ₂ Methanation. <i>Topics in Catalysis</i> , 2018, 61, 1514-1527.	1.3	45
92	Application of a polyelectrolyte complex coacervation method to improve seeding efficiency of bone marrow stromal cells in a 3D culture system. <i>Biomaterials</i> , 2005, 26, 4149-4160.	5.7	44
93	Modulation of integrin and E-cadherin-mediated adhesions to spatially control heterogeneity in human pluripotent stem cell differentiation. <i>Biomaterials</i> , 2015, 50, 87-97.	5.7	44
94	HepaRG culture in tethered spheroids as an <i>in vitro</i> three-dimensional model for drug safety screening. <i>Journal of Applied Toxicology</i> , 2015, 35, 909-917.	1.4	44
95	Long noncoding RNA <i>TUG1</i> contributes to cerebral ischaemia/reperfusion injury by sponging <i>miR-145</i> to upregulate <i>AQP4</i> expression. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 250-259.	1.6	44
96	Vitreous Cryopreservation of Cell-Biomaterial Constructs Involving Encapsulated Hepatocytes. <i>Tissue Engineering</i> , 2007, 13, 649-658.	4.9	41
97	Exploitation of physical and chemical constraints for three-dimensional microtissue construction in microfluidics. <i>Biomicrofluidics</i> , 2011, 5, 022203.	1.2	41
98	25-Hydroxyvitamin D ₃ induces osteogenic differentiation of human mesenchymal stem cells. <i>Scientific Reports</i> , 2017, 7, 42816.	1.6	41
99	Evaluation of collagen and methylated collagen as gene carriers. <i>International Journal of Pharmaceutics</i> , 2004, 279, 115-126.	2.6	40
100	A 3D Microfluidic Model to Recapitulate Cancer Cell Migration and Invasion. <i>Bioengineering</i> , 2018, 5, 29.	1.6	39
101	PAK6 increase chemoresistance and is a prognostic marker for stage II and III colon cancer patients undergoing 5-FU based chemotherapy. <i>Oncotarget</i> , 2015, 6, 355-367.	0.8	39
102	Distribution and functions of kinectin isoforms. <i>Journal of Cell Science</i> , 2004, 117, 4537-4549.	1.2	38
103	Scalable encapsulation of hepatocytes by electrostatic spraying. <i>Journal of Biotechnology</i> , 2005, 117, 99-109.	1.9	38
104	Epigenetic regulation of an adverse metabolic phenotype in polycystic ovary syndrome: the impact of the leukocyte methylation of PPARC1A promoter. <i>Fertility and Sterility</i> , 2017, 107, 467-474.e5.	0.5	38
105	Development of poly (lactic-co-glycolic acid)-collagen scaffolds for tissue engineering. <i>Materials Science and Engineering C</i> , 2007, 27, 285-292.	3.8	37
106	Kinectin-mediated endoplasmic reticulum dynamics supports focal adhesion growth in the cellular lamella. <i>Journal of Cell Science</i> , 2010, 123, 3901-3912.	1.2	37
107	Depression Affects Intrinsic Brain Activity in Patients With Mild Cognitive Impairment. <i>Frontiers in Neuroscience</i> , 2019, 13, 1333.	1.4	37
108	Galactosylated Poly(vinylidene difluoride) Hollow Fiber Bioreactor for Hepatocyte Culture. <i>Tissue Engineering</i> , 2005, 11, 1667-1677.	4.9	36

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109	Functionally Enhanced Human Stem Cell Derived Hepatocytes in Galactosylated Cellulosic Sponges for Hepatotoxicity Testing. <i>Molecular Pharmaceutics</i> , 2016, 13, 1947-1957.	2.3	36
110	Modification of polyvinylidene fluoride membrane by silver nanoparticles-graphene oxide hybrid nanosheet for effective membrane biofouling mitigation. <i>Chemosphere</i> , 2021, 268, 129187.	4.2	36
111	Optimization of 3-D hepatocyte culture by controlling the physical and chemical properties of the extra-cellular matrices. <i>Biomaterials</i> , 2005, 26, 3153-3163.	5.7	35
112	Correlation of MR elastography with morphometric quantification of liver fibrosis (Fibro-C-Index) in chronic hepatitis B. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1123-1129.	1.9	35
113	Spraying printing of liquid metal electronics on various clothes to compose wearable functional device. <i>Science China Technological Sciences</i> , 2017, 60, 306-316.	2.0	35
114	Identification and Characterization of a Novel Prespheroid 3-Dimensional Hepatocyte Monolayer on Galactosylated Substratum. <i>Tissue Engineering</i> , 2007, 13, 1455-1468.	4.9	34
115	Hepatocyte function within a stacked double sandwich culture plate cylindrical bioreactor for bioartificial liver system. <i>Biomaterials</i> , 2012, 33, 7925-7932.	5.7	34
116	The controlled presentation of TGF- β 21 to hepatocytes in a 3D-microfluidic cell culture system. <i>Biomaterials</i> , 2009, 30, 3847-3853.	5.7	33
117	Cell-delivery therapeutics for liver regeneration. <i>Advanced Drug Delivery Reviews</i> , 2010, 62, 814-826.	6.6	33
118	HGF regulates the activation of TGF- β 21 in rat hepatocytes and hepatic stellate cells. <i>Journal of Cellular Physiology</i> , 2013, 228, 393-401.	2.0	32
119	Poly(ADP-ribose) mediates asymmetric division of mouse oocyte. <i>Cell Research</i> , 2018, 28, 462-475.	5.7	32
120	Transcriptomic and open chromatin atlas of high-resolution anatomical regions in the rhesus macaque brain. <i>Nature Communications</i> , 2020, 11, 474.	5.8	32
121	Genome wide abnormal DNA methylome of human blastocyst in assisted reproductive technology. <i>Journal of Genetics and Genomics</i> , 2017, 44, 475-481.	1.7	30
122	Long non-coding RNA MINCR aggravates colon cancer via regulating miR-708-5p-mediated Wnt/ β -catenin pathway. <i>Biomedicine and Pharmacotherapy</i> , 2020, 129, 110292.	2.5	30
123	Kinectin Anchors the Translation Elongation Factor-1 to the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2003, 278, 32115-32123.	1.6	29
124	FUSE: a profit maximization approach for functional summarization of biological networks. <i>BMC Bioinformatics</i> , 2012, 13, S10.	1.2	29
125	Ageing exacerbates damage and delays repair of alveolar epithelia following influenza viral pneumonia. <i>Respiratory Research</i> , 2014, 15, 116.	1.4	29
126	A method for human teratogen detection by geometrically confined cell differentiation and migration. <i>Scientific Reports</i> , 2015, 5, 10038.	1.6	29

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127	Modeling xeroderma pigmentosum associated neurological pathologies with patients-derived iPSCs. <i>Protein and Cell</i> , 2016, 7, 210-221.	4.8	29
128	Multifunctional fluorescence correlation microscope for intracellular and microfluidic measurements. <i>Review of Scientific Instruments</i> , 2007, 78, 053711.	0.6	28
129	Transient inter-cellular polymeric linker. <i>Biomaterials</i> , 2007, 28, 3656-3667.	5.7	28
130	Scalable Spheroid Model of Human Hepatocytes for Hepatitis C Infection and Replication. <i>Molecular Pharmaceutics</i> , 2014, 11, 2106-2114.	2.3	28
131	MiR-125b regulates endometrial receptivity by targeting MMP26 in women undergoing IVF-ET with elevated progesterone on HCG priming day. <i>Scientific Reports</i> , 2016, 6, 25302.	1.6	28
132	Constrained spheroids for prolonged hepatocyte culture. <i>Biomaterials</i> , 2016, 80, 106-120.	5.7	28
133	Fluorescent probes for nanoscopy: four categories and multiple possibilities. <i>Journal of Biophotonics</i> , 2017, 10, 11-23.	1.1	28
134	Decellularized liver as a translucent ex vivo model for vascular embolization evaluation. <i>Biomaterials</i> , 2020, 240, 119855.	5.7	28
135	A Configurable Three-Dimensional Microenvironment in a Microfluidic Channel for Primary Hepatocyte Culture. <i>Assay and Drug Development Technologies</i> , 2005, 3, 169-176.	0.6	27
136	Kinectin-dependent Assembly of Translation Elongation Factor-1 Complex on Endoplasmic Reticulum Regulates Protein Synthesis. <i>Journal of Biological Chemistry</i> , 2006, 281, 33621-33634.	1.6	27
137	In vitro and in vivo analysis of co-electrospun scaffolds made of medical grade poly(μ -caprolactone) and porcine collagen. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008, 19, 693-707.	1.9	27
138	Current development of bioreactors for extracorporeal bioartificial liver (Review). <i>Biointerphases</i> , 2010, 5, FA116-FA131.	0.6	27
139	Artificial neural network method for predicting HIV protease cleavage sites in protein. <i>The Protein Journal</i> , 1998, 17, 607-615.	1.1	26
140	Strategies for the cryopreservation of microencapsulated cells. <i>Biotechnology and Bioengineering</i> , 2004, 85, 202-213.	1.7	26
141	Deciphering primate retinal aging at single-cell resolution. <i>Protein and Cell</i> , 2021, 12, 889-898.	4.8	26
142	Biomimetic niches reveal the minimal cues to trigger apical lumen formation in single hepatocytes. <i>Nature Materials</i> , 2020, 19, 1026-1035.	13.3	26
143	Artificial intelligence-enhanced white-light colonoscopy with attention guidance predicts colorectal cancer invasion depth. <i>Gastrointestinal Endoscopy</i> , 2021, 94, 627-638.e1.	0.5	26
144	In vitro testicular toxicity models: Opportunities for advancement via biomedical engineering techniques. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2013, 30, 353-377.	0.9	26

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145	Factors influencing stem cell differentiation into the hepatic lineage <i>in vitro</i> . Journal of Gastroenterology and Hepatology (Australia), 2005, 20, 975-987.	1.4	25
146	Improved Hepatocyte Excretory Function by Immediate Presentation of Polarity Cues. Tissue Engineering, 2006, 12, 2181-2191.	4.9	25
147	Toward surface quantification of liver fibrosis progression. Journal of Biomedical Optics, 2010, 15, 056007.	1.4	25
148	Plasmin Triggers a Switch-Like Decrease in Thrombospondin-Dependent Activation of TGF- β 1. Biophysical Journal, 2012, 103, 1060-1068.	0.2	25
149	Scalable cell alignment on optical media substrates. Biomaterials, 2013, 34, 5078-5087.	5.7	25
150	Encapsulating live cells with water-soluble chitosan in physiological conditions. Journal of Biotechnology, 2005, 117, 355-365.	1.9	24
151	Derivation of Haploid Trophoblast Stem Cells via Conversion <i>In Vitro</i> . IScience, 2019, 11, 508-518.	1.9	24
152	Dendrimer hydrazides as multivalent transient inter-cellular linkers. Biomaterials, 2008, 29, 3693-3702.	5.7	23
153	Mechanical compaction directly modulates the dynamics of bile canaliculi formation. Integrative Biology (United Kingdom), 2013, 5, 390-401.	0.6	23
154	Hepatic Stellate Cell-Targeted Delivery of Hepatocyte Growth Factor Transgene via Bile Duct Infusion Enhances Its Expression at Fibrotic Foci to Regress Dimethylnitrosamine-Induced Liver Fibrosis. Human Gene Therapy, 2013, 24, 508-519.	1.4	23
155	On chip two-photon metabolic imaging for drug toxicity testing. Biomicrofluidics, 2017, 11, 034108.	1.2	23
156	Mitochondrial 3243A \rightarrow G mutation confers pro-atherogenic and pro-inflammatory properties in MELAS iPS derived endothelial cells. Cell Death and Disease, 2019, 10, 802.	2.7	23
157	Protein Lysine Acetylation in Ovarian Granulosa Cells Affects Metabolic Homeostasis and Clinical Presentations of Women With Polycystic Ovary Syndrome. Frontiers in Cell and Developmental Biology, 2020, 8, 567028.	1.8	23
158	A scalable and sensitive steatosis chip with long-term perfusion of <i>in situ</i> differentiated HepaRG organoids. Biomaterials, 2021, 275, 120904.	5.7	23
159	Decomartmentalisation as a simple color manipulation of plant-based marbling meat alternatives. Biomaterials, 2021, 277, 121107.	5.7	23
160	<i>In vivo</i> activity of ABT-869, a multi-target kinase inhibitor, against acute myeloid leukemia with wild-type FLT3 receptor. Leukemia Research, 2008, 32, 1091-1100.	0.4	22
161	Microfabricated silicon nitride membranes for hepatocyte sandwich culture. Biomaterials, 2008, 29, 3993-4002.	5.7	22
162	Rapid construction of mechanically- confined multi- cellular structures using dendrimeric intercellular linker. Biomaterials, 2010, 31, 7455-7467.	5.7	22

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