

Henry Yu

List of Publications by Year in descending order

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319
papers

12,537
citations

25034

57
h-index

40979

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. | 6.0 | 409 |
| 2 | A novel 3D mammalian cell perfusion-culture system in microfluidic channels. <i>Lab on A Chip</i> , 2007, 7, 302. | 6.0 | 392 |
| 3 | A microfluidic 3D hepatocyte chip for drug toxicity testing. <i>Lab on A Chip</i> , 2009, 9, 2026. | 6.0 | 378 |
| 4 | Single-Cell Transcriptomic Atlas of Primate Ovarian Aging. <i>Cell</i> , 2020, 180, 585-600.e19. | 28.9 | 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. | 6.0 | 302 |
| 6 | Fast Fabrication of Flexible Functional Circuits Based on Liquid Metal Dual-Color Trans Printing. <i>Advanced Materials</i> , 2015, 27, 7109-7116. | 21.0 | 246 |
| 7 | Kinectin, a major kinesin-binding protein on ER. <i>Journal of Cell Biology</i> , 1992, 118, 1121-1131. | 5.2 | 213 |
| 8 | Molecular Requirements for Bi-directional Movement of Phagosomes Along Microtubules. <i>Journal of Cell Biology</i> , 1997, 137, 113-129. | 5.2 | 212 |
| 9 | Mechanotransduction In Vivo by Repeated Talin Stretch-Relaxation Events Depends upon Vinculin. <i>PLoS Biology</i> , 2011, 9, e1001223. | 5.6 | 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. | 11.4 | 172 |
| 11 | A new nerve guide conduit material composed of a biodegradable poly(phosphoester). <i>Biomaterials</i> , 2001, 22, 1157-1169. | 11.4 | 165 |
| 12 | A gel-free 3D microfluidic cell culture system. <i>Biomaterials</i> , 2008, 29, 3237-3244. | 11.4 | 157 |
| 13 | Kinectin, an essential anchor for kinesin-driven vesicle motility. <i>Science</i> , 1995, 267, 1834-1837. | 12.6 | 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. | 1.4 | 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. | 3.7 | 127 |
| 16 | Heralding a new paradigm in 3D tumor modeling. <i>Biomaterials</i> , 2016, 108, 197-213. | 11.4 | 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. | 12.0 | 124 |
| 18 | Polyphosphoester microspheres for sustained release of biologically active nerve growth factor. <i>Biomaterials</i> , 2002, 23, 3765-3772. | 11.4 | 120 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Cell Culture on MEMS Platforms: A Review. <i>International Journal of Molecular Sciences</i> , 2009, 10, 5411-5441. | 4.1 | 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. | 6.4 | 117 |
| 21 | Hepatocyte Encapsulation for Enhanced Cellular Functions. <i>Tissue Engineering</i> , 2000, 6, 481-495. | 4.6 | 113 |
| 22 | Engineering a scaffold-free 3D tumor model for in vitro drug penetration studies. <i>Biomaterials</i> , 2010, 31, 1180-1190. | 11.4 | 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. | 2.6 | 109 |
| 24 | Biomedical Implementation of Liquid Metal Ink as Drawable ECG Electrode and Skin Circuit. <i>PLoS ONE</i> , 2013, 8, e58771. | 2.5 | 108 |
| 25 | A graphene-based electrochemical filter for water purification. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16554-16562. | 10.3 | 108 |
| 26 | MicroRNA-20a-5p promotes colorectal cancer invasion and metastasis by downregulating Smad4. <i>Oncotarget</i> , 2016, 7, 45199-45213. | 1.8 | 104 |
| 27 | 3D hepatocyte monolayer on hybrid RGD/galactose substratum. <i>Biomaterials</i> , 2006, 27, 5669-5680. | 11.4 | 100 |
| 28 | Targeted elimination of mutant mitochondrial DNA in MELAS-iPSCs by mitoTALENs. <i>Protein and Cell</i> , 2018, 9, 283-297. | 11.0 | 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. | 2.5 | 94 |
| 30 | CRISPR/Cas9-mediated targeted gene correction in amyotrophic lateral sclerosis patient iPSCs. <i>Protein and Cell</i> , 2017, 8, 365-378. | 11.0 | 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. | 2.1 | 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. | 7.2 | 88 |
| 33 | Single-cell transcriptomic atlas of primate cardiopulmonary aging. <i>Cell Research</i> , 2021, 31, 415-432. | 12.0 | 88 |
| 34 | Direct Detection of Collagenous Proteins by Fluorescently Labeled Collagen Mimetic Peptides. <i>Bioconjugate Chemistry</i> , 2013, 24, 9-16. | 3.6 | 86 |
| 35 | Metabolic Remodeling during Liver Regeneration. <i>Developmental Cell</i> , 2018, 47, 425-438.e5. | 7.0 | 86 |
| 36 | Galactosylated PVDF membrane promotes hepatocyte attachment and functional maintenance. <i>Biomaterials</i> , 2003, 24, 4893-4903. | 11.4 | 82 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | A perfusion incubator liver chip for 3D cell culture with application on chronic hepatotoxicity testing. <i>Scientific Reports</i> , 2017, 7, 14528. | 3.3 | 82 |
| 38 | Fish and Chips: a microfluidic perfusion platform for monitoring zebrafish development. <i>Lab on A Chip</i> , 2012, 12, 892-900. | 6.0 | 81 |
| 39 | Channelless Fabrication for Large-scale Preparation of Room Temperature Liquid Metal Droplets. <i>Advanced Engineering Materials</i> , 2014, 16, 255-262. | 3.5 | 81 |
| 40 | Deep learning enables automated scoring of liver fibrosis stages. <i>Scientific Reports</i> , 2018, 8, 16016. | 3.3 | 81 |
| 41 | Sirt3 prevents maternal obesity-associated oxidative stress and meiotic defects in mouse oocytes. <i>Cell Cycle</i> , 2015, 14, 2959-2968. | 2.6 | 80 |
| 42 | Fabrication of poly(phosphoester) nerve guides by immersion precipitation and the control of porosity. <i>Biomaterials</i> , 2001, 22, 1147-1156. | 11.4 | 76 |
| 43 | Synthetic sandwich culture of 3D hepatocyte monolayer. <i>Biomaterials</i> , 2008, 29, 290-301. | 11.4 | 74 |
| 44 | Multi-layered microcapsules for cell encapsulation. <i>Biomaterials</i> , 2002, 23, 849-856. | 11.4 | 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. | 2.6 | 73 |
| 46 | Hydrogel-based colorectal cancer organoid co-culture models. <i>Acta Biomaterialia</i> , 2021, 132, 461-472. | 8.3 | 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. | 7.4 | 68 |
| 48 | Stem cells in microfluidics. <i>Biotechnology Progress</i> , 2009, 25, 52-60. | 2.6 | 67 |
| 49 | Extracellular matrix scaffolding guides lumen elongation by inducing anisotropic intercellular mechanical tension. <i>Nature Cell Biology</i> , 2016, 18, 311-318. | 10.3 | 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. | 2.9 | 67 |
| 51 | Digital CRISPR-based method for the rapid detection and absolute quantification of nucleic acids. <i>Biomaterials</i> , 2021, 274, 120876. | 11.4 | 65 |
| 52 | Transgene Expression in the Brain Stem Effected by Intramuscular Injection of Polyethylenimine/DNA Complexes. <i>Molecular Therapy</i> , 2001, 3, 658-664. | 8.2 | 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. | 4.5 | 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. | 8.6 | 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. | 19.2 | 64 |
| 56 | Generation of mature kupffer cells from human induced pluripotent stem cells. <i>Biomaterials</i> , 2019, 192, 377-391. | 11.4 | 64 |
| 57 | Cost-effective differentiation of hepatocyte-like cells from human pluripotent stem cells using small molecules. <i>Biomaterials</i> , 2015, 70, 115-125. | 11.4 | 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. | 2.5 | 61 |
| 59 | Microcapsules with improved mechanical stability for hepatocyte culture. <i>Biomaterials</i> , 2003, 24, 1771-1780. | 11.4 | 60 |
| 60 | Laminar-flow immediate-overlay hepatocyte sandwich perfusion system for drug hepatotoxicity testing. <i>Biomaterials</i> , 2009, 30, 5927-5936. | 11.4 | 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. | 3.3 | 60 |
| 62 | Galactosylated cellulosic sponge for multi-well drug safety testing. <i>Biomaterials</i> , 2011, 32, 6982-6994. | 11.4 | 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. | 0.9 | 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. | 2.5 | 59 |
| 65 | Cellular responses to a nanofibrous environment. <i>Nano Today</i> , 2006, 1, 34-43. | 11.9 | 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. | 2.3 | 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. | 2.6 | 56 |
| 68 | Tethered spheroids as an <i>in vitro</i> hepatocyte model for drug safety screening. <i>Biomaterials</i> , 2012, 33, 2165-2176. | 11.4 | 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. | 11.4 | 56 |
| 70 | Scalable alignment of three-dimensional cellular constructs in a microfluidic chip. <i>Lab on A Chip</i> , 2013, 13, 4124. | 6.0 | 55 |
| 71 | Experimenting Liver Fibrosis Diagnostic by Two Photon Excitation Microscopy and Bag-of-Features Image Classification. <i>Scientific Reports</i> , 2014, 4, 4636. | 3.3 | 55 |
| 72 | Purpose-driven biomaterials research in liver-tissue engineering. <i>Trends in Biotechnology</i> , 2011, 29, 110-118. | 9.3 | 54 |

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|----|--|------|-----------|
| 73 | A robust high-throughput sandwich cell-based drug screening platform. <i>Biomaterials</i> , 2011, 32, 1229-1241. | 11.4 | 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. | 11.0 | 54 |
| 75 | Hepatitis C Virus Network Based Classification of Hepatocellular Cirrhosis and Carcinoma. <i>PLoS ONE</i> , 2012, 7, e34460. | 2.5 | 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. | 3.3 | 51 |
| 77 | Visualization of aging-associated chromatin alterations with an engineered TALE system. <i>Cell Research</i> , 2017, 27, 483-504. | 12.0 | 51 |
| 78 | DNA methylation reprogramming of functional elements during mammalian embryonic development. <i>Cell Discovery</i> , 2018, 4, 41. | 6.7 | 51 |
| 79 | Kinectin-Kinesin Binding Domains and Their Effects on Organelle Motility. <i>Journal of Biological Chemistry</i> , 2000, 275, 32854-32860. | 3.4 | 50 |
| 80 | Photo-crosslinkable microcapsules formed by polyelectrolyte copolymer and modified collagen for rat hepatocyte encapsulation. <i>Biomaterials</i> , 2004, 25, 3531-3540. | 11.4 | 50 |
| 81 | 3D Culture as a Clinically Relevant Model for Personalized Medicine. <i>SLAS Technology</i> , 2017, 22, 245-253. | 1.9 | 50 |
| 82 | Novel Intra-Tissue Perfusion System for Culturing Thick Liver Tissue. <i>Tissue Engineering</i> , 2007, 13, 2345-2356. | 4.6 | 49 |
| 83 | Single-nucleus transcriptomic landscape of primate hippocampal aging. <i>Protein and Cell</i> , 2021, 12, 695-716. | 11.0 | 49 |
| 84 | Perfusion Culture Improves the Maintenance of Cultured Liver Tissue Slices. <i>Tissue Engineering</i> , 2007, 13, 197-205. | 4.6 | 48 |
| 85 | Hepatic spheroids used as an in vitro model to study malaria relapse. <i>Biomaterials</i> , 2019, 216, 119221. | 11.4 | 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. | 2.6 | 47 |
| 87 | Preparation of three-dimensional interconnected macroporous cellulosic hydrogels for soft tissue engineering. <i>Biomaterials</i> , 2010, 31, 8141-8152. | 11.4 | 47 |
| 88 | Patient-specific hepatocyte-like cells derived from induced pluripotent stem cells model pazopanib-mediated hepatotoxicity. <i>Scientific Reports</i> , 2017, 7, 41238. | 3.3 | 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. | 2.3 | 46 |
| 90 | Mechanosensing in liver regeneration. <i>Seminars in Cell and Developmental Biology</i> , 2017, 71, 153-167. | 5.0 | 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. | 2.8 | 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. | 11.4 | 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. | 11.4 | 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. | 2.8 | 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. | 3.6 | 44 |
| 96 | Vitreous Cryopreservation of Cell-Biomaterial Constructs Involving Encapsulated Hepatocytes. <i>Tissue Engineering</i> , 2007, 13, 649-658. | 4.6 | 41 |
| 97 | Exploitation of physical and chemical constraints for three-dimensional microtissue construction in microfluidics. <i>Biomicrofluidics</i> , 2011, 5, 022203. | 2.4 | 41 |
| 98 | 25-Hydroxyvitamin D ₃ induces osteogenic differentiation of human mesenchymal stem cells. <i>Scientific Reports</i> , 2017, 7, 42816. | 3.3 | 41 |
| 99 | Evaluation of collagen and methylated collagen as gene carriers. <i>International Journal of Pharmaceutics</i> , 2004, 279, 115-126. | 5.2 | 40 |
| 100 | A 3D Microfluidic Model to Recapitulate Cancer Cell Migration and Invasion. <i>Bioengineering</i> , 2018, 5, 29. | 3.5 | 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. | 1.8 | 39 |
| 102 | Distribution and functions of kinectin isoforms. <i>Journal of Cell Science</i> , 2004, 117, 4537-4549. | 2.0 | 38 |
| 103 | Scalable encapsulation of hepatocytes by electrostatic spraying. <i>Journal of Biotechnology</i> , 2005, 117, 99-109. | 3.8 | 38 |
| 104 | Epigenetic regulation of an adverse metabolic phenotype in polycystic ovary syndrome: the impact of the leukocyte methylation of PPAR γ C1A promoter. <i>Fertility and Sterility</i> , 2017, 107, 467-474.e5. | 1.0 | 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. | 7.3 | 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. | 2.0 | 37 |
| 107 | Depression Affects Intrinsic Brain Activity in Patients With Mild Cognitive Impairment. <i>Frontiers in Neuroscience</i> , 2019, 13, 1333. | 2.8 | 37 |
| 108 | Galactosylated Poly(vinylidene difluoride) Hollow Fiber Bioreactor for Hepatocyte Culture. <i>Tissue Engineering</i> , 2005, 11, 1667-1677. | 4.6 | 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. | 4.6 | 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. | 8.2 | 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. | 11.4 | 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. | 3.0 | 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. | 4.0 | 35 |
| 114 | Identification and Characterization of a Novel Prespheroid 3-Dimensional Hepatocyte Monolayer on Galactosylated Substratum. <i>Tissue Engineering</i> , 2007, 13, 1455-1468. | 4.6 | 34 |
| 115 | Hepatocyte function within a stacked double sandwich culture plate cylindrical bioreactor for bioartificial liver system. <i>Biomaterials</i> , 2012, 33, 7925-7932. | 11.4 | 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. | 11.4 | 33 |
| 117 | Cell-delivery therapeutics for liver regeneration†. <i>Advanced Drug Delivery Reviews</i> , 2010, 62, 814-826. | 13.7 | 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. | 4.1 | 32 |
| 119 | Poly(ADP-ribose) mediates asymmetric division of mouse oocyte. <i>Cell Research</i> , 2018, 28, 462-475. | 12.0 | 32 |
| 120 | Transcriptomic and open chromatin atlas of high-resolution anatomical regions in the rhesus macaque brain. <i>Nature Communications</i> , 2020, 11, 474. | 12.8 | 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. | 3.9 | 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. | 5.6 | 30 |
| 123 | Kinectin Anchors the Translation Elongation Factor-1 β to the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2003, 278, 32115-32123. | 3.4 | 29 |
| 124 | FUSE: a profit maximization approach for functional summarization of biological networks. <i>BMC Bioinformatics</i> , 2012, 13, S10. | 2.6 | 29 |
| 125 | Aging exacerbates damage and delays repair of alveolar epithelia following influenza viral pneumonia. <i>Respiratory Research</i> , 2014, 15, 116. | 3.6 | 29 |
| 126 | A method for human teratogen detection by geometrically confined cell differentiation and migration. <i>Scientific Reports</i> , 2015, 5, 10038. | 3.3 | 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. | 11.0 | 29 |
| 128 | Multifunctional fluorescence correlation microscope for intracellular and microfluidic measurements. <i>Review of Scientific Instruments</i> , 2007, 78, 053711. | 1.3 | 28 |
| 129 | Transient inter-cellular polymeric linker. <i>Biomaterials</i> , 2007, 28, 3656-3667. | 11.4 | 28 |
| 130 | Scalable Spheroid Model of Human Hepatocytes for Hepatitis C Infection and Replication. <i>Molecular Pharmaceutics</i> , 2014, 11, 2106-2114. | 4.6 | 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. | 3.3 | 28 |
| 132 | Constrained spheroids for prolonged hepatocyte culture. <i>Biomaterials</i> , 2016, 80, 106-120. | 11.4 | 28 |
| 133 | Fluorescent probes for nanoscopy: four categories and multiple possibilities. <i>Journal of Biophotonics</i> , 2017, 10, 11-23. | 2.3 | 28 |
| 134 | Decellularized liver as a translucent ex vivo model for vascular embolization evaluation. <i>Biomaterials</i> , 2020, 240, 119855. | 11.4 | 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. | 1.2 | 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. | 3.4 | 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. | 3.5 | 27 |
| 138 | Current development of bioreactors for extracorporeal bioartificial liver (Review). <i>Biointerphases</i> , 2010, 5, FA116-FA131. | 1.6 | 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. | 3.3 | 26 |
| 141 | Deciphering primate retinal aging at single-cell resolution. <i>Protein and Cell</i> , 2021, 12, 889-898. | 11.0 | 26 |
| 142 | Biomimetic niches reveal the minimal cues to trigger apical lumen formation in single hepatocytes. <i>Nature Materials</i> , 2020, 19, 1026-1035. | 27.5 | 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. | 1.0 | 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. | 1.5 | 26 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 145 | Factors influencing stem cell differentiation into the hepatic lineage <i>in vitro</i> . Journal of Gastroenterology and Hepatology (Australia), 2005, 20, 975-987. | 2.8 | 25 |
| 146 | Improved Hepatocyte Excretory Function by Immediate Presentation of Polarity Cues. Tissue Engineering, 2006, 12, 2181-2191. | 4.6 | 25 |
| 147 | Toward surface quantification of liver fibrosis progression. Journal of Biomedical Optics, 2010, 15, 056007. | 2.6 | 25 |
| 148 | Plasmin Triggers a Switch-Like Decrease in Thrombospondin-Dependent Activation of TGF- β 1. Biophysical Journal, 2012, 103, 1060-1068. | 0.5 | 25 |
| 149 | Scalable cell alignment on optical media substrates. Biomaterials, 2013, 34, 5078-5087. | 11.4 | 25 |
| 150 | Encapsulating live cells with water-soluble chitosan in physiological conditions. Journal of Biotechnology, 2005, 117, 355-365. | 3.8 | 24 |
| 151 | Derivation of Haploid Trophoblast Stem Cells via Conversion <i>In Vitro</i> . IScience, 2019, 11, 508-518. | 4.1 | 24 |
| 152 | Dendrimer hydrazides as multivalent transient inter-cellular linkers. Biomaterials, 2008, 29, 3693-3702. | 11.4 | 23 |
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