

Emmanuel S Tzanakakis

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,195
citations

201674

27
h-index

233421

45
g-index

55
all docs

55
docs citations

55
times ranked

3239
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable Stirred-Suspension Bioreactor Culture of Human Pluripotent Stem Cells. <i>Tissue Engineering - Part A</i> , 2010, 16, 405-421.	3.1	226
2	Expansion and Differentiation of Human Embryonic Stem Cells to Endoderm Progeny in a Microcarrier Stirred-Suspension Culture. <i>Tissue Engineering - Part A</i> , 2009, 15, 2051-2063.	3.1	174
3	Electronic "expression" of the inward rectifier in cardiocytes derived from human-induced pluripotent stem cells. <i>Heart Rhythm</i> , 2013, 10, 1903-1910.	0.7	118
4	Combined activities of hedgehog signaling inhibitors regulate pancreas development. <i>Development (Cambridge)</i> , 2003, 130, 4871-4879.	2.5	105
5	Biodegradable cationic polymeric nanocapsules for overcoming multidrug resistance and enabling drug-gene co-delivery to cancer cells. <i>Nanoscale</i> , 2014, 6, 1567-1572.	5.6	101
6	The role of actin filaments and microtubules in hepatocyte spheroid self-assembly. <i>Cytoskeleton</i> , 2001, 48, 175-189.	4.4	99
7	Cardiac Cell Generation from Encapsulated Embryonic Stem Cells in Static and Scalable Culture Systems. <i>Cell Transplantation</i> , 2010, 19, 1397-1412.	2.5	95
8	Deconstructing stem cell population heterogeneity: Single-cell analysis and modeling approaches. <i>Biotechnology Advances</i> , 2013, 31, 1047-1062.	11.7	90
9	Regenerating proteins and their expression, regulation, and signaling. <i>Biomolecular Concepts</i> , 2012, 3, 57-70.	2.2	86
10	Emerging routes to the generation of functional β -cells for diabetes mellitus cell therapy. <i>Nature Reviews Endocrinology</i> , 2020, 16, 506-518.	9.6	85
11	Stem/Progenitor Cell Sources of Insulin-Producing Cells for the Treatment of Diabetes. <i>Tissue Engineering</i> , 2007, 13, 1399-1412.	4.6	76
12	Extracorporeal Tissue Engineered Liver-Assist Devices. <i>Annual Review of Biomedical Engineering</i> , 2000, 2, 607-632.	12.3	71
13	Stem Cells for Heart Cell Therapies. <i>Tissue Engineering - Part B: Reviews</i> , 2008, 14, 393-406.	4.8	67
14	Four Decades After the Discovery of Regenerating Islet-Derived (Reg) Proteins: Current Understanding and Challenges. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 235.	3.7	66
15	Oxygen Transport and Stem Cell Aggregation in Stirred-Suspension Bioreactor Cultures. <i>PLoS ONE</i> , 2014, 9, e102486.	2.5	65
16	Standardized biosynthesis of flavan-3-ols with effects on pancreatic beta-cell insulin secretion. <i>Applied Microbiology and Biotechnology</i> , 2007, 77, 797-807.	3.6	54
17	Propagation of embryonic stem cells in stirred suspension without serum. <i>Biotechnology Progress</i> , 2008, 24, 1342-1352.	2.6	46
18	Schizophrenia: A neurodevelopmental disorder " Integrative genomic hypothesis and therapeutic implications from a transgenic mouse model. <i>Schizophrenia Research</i> , 2013, 143, 367-376.	2.0	45

#	ARTICLE	IF	CITATIONS
19	Global Developmental Gene Programming Involves a Nuclear Form of Fibroblast Growth Factor Receptor-1 (FGFR1). PLoS ONE, 2015, 10, e0123380.	2.5	45
20	Contribution of Stochastic Partitioning at Human Embryonic Stem Cell Division to NANOG Heterogeneity. PLoS ONE, 2012, 7, e50715.	2.5	38
21	Facile Engineering of Xeno-Free Microcarriers for the Scalable Cultivation of Human Pluripotent Stem Cells in Stirred Suspension. Tissue Engineering - Part A, 2014, 20, 131128071850006.	3.1	35
22	Production of Human Pluripotent Stem Cell Therapeutics under Defined Xeno-free Conditions: Progress and Challenges. Stem Cell Reviews and Reports, 2015, 11, 96-109.	5.6	33
23	Pseudoislets in stirred-suspension culture exhibit enhanced cell survival, propagation and insulin secretion. Journal of Biotechnology, 2011, 151, 278-286.	3.8	30
24	Signaling Pathways and Gene Regulatory Networks in Cardiomyocyte Differentiation. Tissue Engineering - Part B: Reviews, 2015, 21, 377-392.	4.8	30
25	Human pluripotent stem cell differentiation to functional pancreatic cells for diabetes therapies: Innovations, challenges and future directions. Journal of Biological Engineering, 2017, 11, 21.	4.7	29
26	Probing Enhanced Cytochrome P450 2B1/2 Activity in Rat Hepatocyte Spheroids through Confocal Laser Scanning Microscopy. Cell Transplantation, 2001, 10, 329-342.	2.5	28
27	A novel nuclear FGF Receptor-1 partnership with retinoid and Nur receptors during developmental gene programming of embryonic stem cells. Journal of Cellular Biochemistry, 2012, 113, 2920-2936.	2.6	28
28	Expression of Reg Family Proteins in Embryonic Stem Cells and Its Modulation by Wnt/ β -Catenin Signaling. Stem Cells and Development, 2010, 19, 1307-1319.	2.1	25
29	Optogenetic regulation of insulin secretion in pancreatic β -cells. Scientific Reports, 2017, 7, 9357.	3.3	22
30	Increased Culture Density Is Linked to Decelerated Proliferation, Prolonged G ₁ Phase, and Enhanced Propensity for Differentiation of Self-Renewing Human Pluripotent Stem Cells. Stem Cells and Development, 2015, 24, 892-903.	2.1	21
31	Kinetics of xanthan gum production from whey by constructed strains of <i>Xanthomonas campestris</i> in batch fermentations. Chemical Engineering and Technology, 1997, 20, 354-360.	1.5	20
32	Engineering Xeno-Free Microcarriers with Recombinant Vitronectin, Albumin and UV Irradiation for Human Pluripotent Stem Cell Bioprocessing. ACS Biomaterials Science and Engineering, 2017, 3, 1510-1518.	5.2	18
33	Amelioration of Diabetes in a Murine Model upon Transplantation of Pancreatic β -Cells with Optogenetic Control of Cyclic Adenosine Monophosphate. ACS Synthetic Biology, 2019, 8, 2248-2255.	3.8	15
34	Epitope-Guided Engineering of Monobody Binders for <i>In Vivo</i> Inhibition of Erk-2 Signaling. ACS Chemical Biology, 2013, 8, 608-616.	3.4	14
35	Long-term enhancement of cytochrome P450 2B1/2 expression in rat hepatocyte spheroids through adenovirus-mediated gene transfer. Cell Biology and Toxicology, 2002, 18, 13-27.	5.3	11
36	Scaling down the size and increasing the throughput of glycosyltransferase assays: Activity changes on stem cell differentiation. Analytical Biochemistry, 2012, 425, 135-144.	2.4	11

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37	Stem cell modeling: from gene networks to cell populations. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 17-25.	7.8	11
38	Who Will Win: Induced Pluripotent Stem Cells Versus Embryonic Stem Cells for β Cell Replacement and Diabetes Disease Modeling?. <i>Current Diabetes Reports</i> , 2018, 18, 133.	4.2	10
39	Aggregate and Microcarrier Cultures of Human Pluripotent Stem Cells in Stirred-Suspension Systems. <i>Methods in Molecular Biology</i> , 2015, 1502, 35-52.	0.9	9
40	MicroRNA-7 directly targets <i>Reg1</i> in pancreatic cells. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 317, C366-C374.	4.6	9
41	A Common Integrative Nuclear Signaling Module for Stem Cell Development. , 2011, , 87-132.		9
42	Distinct Allelic Patterns of Nanog Expression Impart Embryonic Stem Cell Population Heterogeneity. <i>PLoS Computational Biology</i> , 2013, 9, e1003140.	3.2	8
43	Xenogeneic-Free System for Biomanufacturing of Cardiomyocyte Progeny From Human Pluripotent Stem Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 571425.	4.1	5
44	Inverse problem analysis of pluripotent stem cell aggregation dynamics in stirred-suspension cultures. <i>Journal of Biotechnology</i> , 2015, 208, 70-79.	3.8	4
45	Non-xenogeneic expansion and definitive endoderm differentiation of human pluripotent stem cells in an automated bioreactor. <i>Biotechnology and Bioengineering</i> , 2021, 118, 979-991.	3.3	3
46	Enhanced Differentiation of Stem Cell Derived Cardiac Myocytes by Electronic Expression of IK1 Reveals an Atrial-Specific Kv1.5-Like Current. <i>Biophysical Journal</i> , 2014, 106, 631a.	0.5	1
47	Scalable expansion of human pluripotent stem cells for biomanufacturing cellular therapeutics. , 2021, , 289-308.		1
48	Proteomic Analysis of Exosomes during Cardiogenic Differentiation of Human Pluripotent Stem Cells. <i>Cells</i> , 2021, 10, 2622.	4.1	1
49	Stem Cell Bioprocessing for Regenerative Medicine. , 2011, , 197-229.		1
50	Guest editorial. <i>Biotechnology Advances</i> , 2013, 31, 993.	11.7	0
51	Bioreactors and the Design of the Stem Cell Niche. <i>Pancreatic Islet Biology</i> , 2015, , 107-128.	0.3	0
52	Epitope guided engineering of monobody binders for in vivo inhibition of Erk2 signaling. <i>FASEB Journal</i> , 2013, 27, 1042.2.	0.5	0
53	Large-Scale Culture of 3D Aggregates of Human Pluripotent Stem Cells. , 2018, , 1-24.		0