

Xiaoping Bao

List of Publications by Year in descending order

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39
papers

2,773
citations

394421

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315739

38
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docs citations

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times ranked

4932
citing authors

#	ARTICLE	IF	CITATIONS
1	Directed cardiomyocyte differentiation from human pluripotent stem cells by modulating Wnt/ β^2 -catenin signaling under fully defined conditions. <i>Nature Protocols</i> , 2013, 8, 162-175.	12.0	1,353
2	Efficient Differentiation of Human Pluripotent Stem Cells to Endothelial Progenitors via Small-Molecule Activation of WNT Signaling. <i>Stem Cell Reports</i> , 2014, 3, 804-816.	4.8	271
3	Directed differentiation of human pluripotent stem cells to blood-brain barrier endothelial cells. <i>Science Advances</i> , 2017, 3, e1701679.	10.3	177
4	Chemically defined, albumin-free human cardiomyocyte generation. <i>Nature Methods</i> , 2015, 12, 595-596.	19.0	129
5	Long-term self-renewing human epicardial cells generated from pluripotent stem cells under defined xeno-free conditions. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	86
6	Biomaterials for stem cell engineering and biomanufacturing. <i>Bioactive Materials</i> , 2019, 4, 366-379.	15.6	75
7	Chemically-defined albumin-free differentiation of human pluripotent stem cells to endothelial progenitor cells. <i>Stem Cell Research</i> , 2015, 15, 122-129.	0.7	71
8	Blockade to pathological remodeling of infarcted heart tissue using a porcupine antagonist. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1649-1654.	7.1	53
9	Engineered Illumination Devices for Optogenetic Control of Cellular Signaling Dynamics. <i>Cell Reports</i> , 2020, 31, 107737.	6.4	47
10	Ultrasensitive and Selective Detection of SARS-CoV-2 Using Thermotropic Liquid Crystals and Image-Based Machine Learning. <i>Cell Reports Physical Science</i> , 2020, 1, 100276.	5.6	46
11	An all-in-one, Tet-On 3G inducible PiggyBac system for human pluripotent stem cells and derivatives. <i>Scientific Reports</i> , 2017, 7, 1549.	3.3	45
12	Human pluripotent stem cell-derived epicardial progenitors can differentiate to endocardial-like endothelial cells. <i>Bioengineering and Translational Medicine</i> , 2017, 2, 191-201.	7.1	43
13	Directed differentiation and long-term maintenance of epicardial cells derived from human pluripotent stem cells under fully defined conditions. <i>Nature Protocols</i> , 2017, 12, 1890-1900.	12.0	40
14	Metabolomics Identifies Metabolic Markers of Maturation in Human Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Theranostics</i> , 2017, 7, 2078-2091.	10.0	31
15	A Small Molecule Inhibitor of Src Family Kinases Promotes Simple Epithelial Differentiation of Human Pluripotent Stem Cells. <i>PLoS ONE</i> , 2013, 8, e60016.	2.5	30
16	The Poly (ADP-Ribose) Polymerase Inhibitor Veliparib and Radiation Cause Significant Cell Line Dependent Metabolic Changes in Breast Cancer Cells. <i>Scientific Reports</i> , 2016, 6, 36061.	3.3	25
17	Directed Differentiation of Human Pluripotent Stem Cells to Podocytes under Defined Conditions. <i>Scientific Reports</i> , 2019, 9, 2765.	3.3	25
18	Directed Endothelial Progenitor Differentiation from Human Pluripotent Stem Cells Via Wnt Activation Under Defined Conditions. <i>Methods in Molecular Biology</i> , 2016, 1481, 183-196.	0.9	21

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19	Stimuli-Responsive Liquid-Crystal-Infused Porous Surfaces for Manipulation of Underwater Gas Bubble Transport and Adhesion. <i>Advanced Materials</i> , 2022, 34, e2110085.	21.0	21
20	<i>Sucrose non-fermenting related kinase</i> enzyme is essential for cardiac metabolism. <i>Biology Open</i> , 2015, 4, 48-61.	1.2	20
21	An Ultrasensitive Calcium Reporter System via CRISPR-Cas9-Mediated Genome Editing in Human Pluripotent Stem Cells. <i>IScience</i> , 2018, 9, 27-35.	4.1	16
22	Generation of pancreatic progenitors from human pluripotent stem cells by small molecules. <i>Stem Cell Reports</i> , 2021, 16, 2395-2409.	4.8	16
23	Modularizable Liquid-Crystal-Based Open Surfaces Enable Programmable Chemical Transport and Feeding using Liquid Droplets. <i>Advanced Materials</i> , 2022, 34, e2108788.	21.0	15
24	Sucrose Nonfermenting-Related Kinase Enzyme-Mediated Rho-Associated Kinase Signaling is Responsible for Cardiac Function. <i>Circulation: Cardiovascular Genetics</i> , 2016, 9, 474-486.	5.1	13
25	Gene Editing to Generate Versatile Human Pluripotent Stem Cell Reporter Lines for Analysis of Differentiation and Lineage Tracing. <i>Stem Cells</i> , 2019, 37, 1556-1566.	3.2	13
26	Sex-dependent VEGF expression underlies variations in human pluripotent stem cell to endothelial progenitor differentiation. <i>Scientific Reports</i> , 2019, 9, 16696.	3.3	12
27	Chemically-defined generation of human hemogenic endothelium and definitive hematopoietic progenitor cells. <i>Biomaterials</i> , 2022, 285, 121569.	11.4	11
28	Activation and stabilization of a lipase nanogel using GMA for acryloylation. <i>Soft Matter</i> , 2012, 8, 2036.	2.7	10
29	Fluorescent indicators for continuous and lineage-specific reporting of cell-cycle phases in human pluripotent stem cells. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2177-2186.	3.3	10
30	Advances in applications of metabolomics in pluripotent stem cell research. <i>Current Opinion in Chemical Engineering</i> , 2017, 15, 36-43.	7.8	8
31	High-throughput 3D screening for differentiation of hPSC-derived cell therapy candidates. <i>Science Advances</i> , 2020, 6, eaaz1457.	10.3	8
32	Interrogating Canonical Wnt Signaling Pathway in Human Pluripotent Stem Cell Fate Decisions Using CRISPR-Cas9. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 325-334.	2.1	7
33	Optogenetic-mediated cardiovascular differentiation and patterning of human pluripotent stem cells. <i>Genetics & Genomics Next</i> , 2021, 2, e202100011.	1.5	7
34	Robust genome and RNA editing via CRISPR nucleases in PiggyBac systems. <i>Bioactive Materials</i> , 2022, 14, 313-320.	15.6	7
35	Adoptive natural killer cell therapy: a human pluripotent stem cell perspective. <i>Current Opinion in Chemical Engineering</i> , 2020, 30, 69-76.	7.8	3
36	Optogenetic Control of Engrafted Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes in Live Mice: A Proof-of-Concept Study. <i>Cells</i> , 2022, 11, 951.	4.1	2

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37	Temporal Expression of Transcription Factor <i>ID2</i> Improves Natural Killer Cell Differentiation from Human Pluripotent Stem Cells. <i>ACS Synthetic Biology</i> , 2022, 11, 2001-2008.	3.8	2
38	Efficient Differentiation of Human Pluripotent Stem Cells to Endothelial Progenitors via Small-Molecule Activation of WNT Signaling. <i>Stem Cell Reports</i> , 2015, 4, 170.	4.8	1
39	A dual cardiomyocyte reporter model derived from human pluripotent stem cells. <i>Stem Cell Research and Therapy</i> , 2021, 12, 305.	5.5	0