Joseph C. Wu

List of Publications by Year
in descending order

333 papers	27,400 citations	5248 83 h-index	7718 150 g-index
345 all docs	345 docs citations	345 times ranked	30342 citing authors

#	Article	IF	Citations
1	Global Epigenomic Reconfiguration During Mammalian Brain Development. Science, 2013, 341, 1237905.	6.0	1,609
2	Chemically defined generation of human cardiomyocytes. Nature Methods, 2014, 11, 855-860.	9.0	1,320
3	Induced pluripotent stem cell technology: a decade of progress. Nature Reviews Drug Discovery, 2017, 16, 115-130.	21.5	1,076
4	COVID-19 and cardiovascular disease: from basic mechanisms to clinical perspectives. Nature Reviews Cardiology, 2020, 17, 543-558.	6.1	999
5	Production of De Novo Cardiomyocytes: Human Pluripotent Stem Cell Differentiation and Direct Reprogramming. Cell Stem Cell, 2012, 10, 16-28.	5.2	616
6	Patient-Specific Induced Pluripotent Stem Cells as a Model for Familial Dilated Cardiomyopathy. Science Translational Medicine, 2012, 4, 130ra47.	5.8	590
7	Abnormal Calcium Handling Properties Underlie Familial Hypertrophic Cardiomyopathy Pathology in Patient-Specific Induced Pluripotent Stem Cells. Cell Stem Cell, 2013, 12, 101-113.	5.2	584
8	Human induced pluripotent stem cellâ€"derived cardiomyocytes recapitulate the predilection of breast cancer patients to doxorubicin-induced cardiotoxicity. Nature Medicine, 2016, 22, 547-556.	15.2	573
9	Tumorigenicity as a clinical hurdle for pluripotent stem cell therapies. Nature Medicine, 2013, 19, 998-1004.	15.2	559
10	Atheroprotective roles of smooth muscle cell phenotypic modulation and the TCF21 disease gene as revealed by single-cell analysis. Nature Medicine, 2019, 25, 1280-1289.	15.2	494
11	Drug Screening Using a Library of Human Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes Reveals Disease-Specific Patterns of Cardiotoxicity. Circulation, 2013, 127, 1677-1691.	1.6	472
12	Defined Engineered Human Myocardium With Advanced Maturation for Applications in Heart Failure Modeling and Repair. Circulation, 2017, 135, 1832-1847.	1.6	462
13	Human Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes. Circulation Research, 2015, 117, 80-88.	2.0	372
14	An antibody against SSEA-5 glycan on human pluripotent stem cells enables removal of teratoma-forming cells. Nature Biotechnology, 2011, 29, 829-834.	9.4	357
15	High-throughput screening of tyrosine kinase inhibitor cardiotoxicity with human induced pluripotent stem cells. Science Translational Medicine, 2017, 9, .	5.8	297
16	Effect of sleep deprivation on brain metabolism of depressed patients. American Journal of Psychiatry, 1992, 149, 538-543.	4.0	281
17	Screening Drug-Induced Arrhythmia Using Human Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes and Low-Impedance Microelectrode Arrays. Circulation, 2013, 128, S3-13.	1.6	269
18	Noninvasive Optical Imaging of Firefly Luciferase Reporter Gene Expression in Skeletal Muscles of Living Mice. Molecular Therapy, 2001, 4, 297-306.	3.7	268

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19	Adult Stem Cell Therapy and Heart Failure, 2000 to 2016. JAMA Cardiology, 2016, 1, 831.	3.0	248
20	Identification of a New Modulator of the Intercalated Disc in a Zebrafish Model of Arrhythmogenic Cardiomyopathy. Science Translational Medicine, 2014, 6, 240ra74.	5.8	222
21	Stem Cell Imaging: From Bench to Bedside. Cell Stem Cell, 2014, 14, 431-444.	5.2	218
22	Gut microbiota and cardiovascular disease: opportunities and challenges. Microbiome, 2020, 8, 36.	4.9	213
23	Translation of Human-Induced PluripotentÂStem Cells. Journal of the American College of Cardiology, 2016, 67, 2161-2176.	1.2	209
24	An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging. Nature Aging, 2021, 1, 598-615.	5.3	202
25	Metabolic Maturation Media Improve Physiological Function of Human iPSC-Derived Cardiomyocytes. Cell Reports, 2020, 32, 107925.	2.9	198
26	Human Engineered Heart Muscles Engraft and Survive Long Term in a Rodent Myocardial Infarction Model. Circulation Research, 2015, 117, 720-730.	2.0	197
27	A Tension-Based Model Distinguishes Hypertrophic versus Dilated Cardiomyopathy. Cell, 2016, 165, 1147-1159.	13.5	193
28	Induced Pluripotent Stem Cells as a Disease Modeling and Drug Screening Platform. Journal of Cardiovascular Pharmacology, 2012, 60, 408-416.	0.8	190
29	Cross Talk of Combined Gene and Cell Therapy in Ischemic Heart Disease. Circulation, 2014, 130, S60-9.	1.6	190
30	Patient-Specific and Genome-Edited Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes Elucidate Single-Cell Phenotype of Brugada Syndrome. Journal of the American College of Cardiology, 2016, 68, 2086-2096.	1.2	185
31	Modeling human diseases with induced pluripotent stem cells: from 2D to 3D and beyond. Development (Cambridge), 2018, 145, .	1.2	182
32	Human Stem Cells for Modeling Heart Disease and for Drug Discovery. Science Translational Medicine, 2014, 6, 239ps6.	5.8	175
33	Single-cell RNA sequencing in cardiovascular development, disease and medicine. Nature Reviews Cardiology, 2020, 17, 457-473.	6.1	174
34	Epigenetic Regulation of Phosphodiesterases 2A and 3A Underlies Compromised Î²-Adrenergic Signaling in an iPSC Model of Dilated Cardiomyopathy. Cell Stem Cell, 2015, 17, 89-100.	5.2	170
35	Patient-Specific iPSC-Derived Endothelial Cells Uncover Pathways that Protect against Pulmonary Hypertension in BMPR2 Mutation Carriers. Cell Stem Cell, 2017, 20, 490-504.e5.	5.2	163
36	Fast two-photon imaging of subcellular voltage dynamics in neuronal tissue with genetically encoded indicators. ELife, 2017, 6, .	2.8	161

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37	Induced Pluripotent Stem Cells for Cardiovascular Disease Modeling and Precision Medicine: A Scientific Statement From the American Heart Association. Circulation Genomic and Precision Medicine, 2018, 11, e000043.	1.6	159
38	Single-Cell RNA Sequencing Unveils Unique Transcriptomic Signatures of Organ-Specific Endothelial Cells. Circulation, 2020, 142, 1848-1862.	1.6	157
39	Correction of human phospholamban R14del mutation associated with cardiomyopathy using targeted nucleases and combination therapy. Nature Communications, 2015, 6, 6955.	5.8	155
40	Induced pluripotent stem cells: at the heart of cardiovascular precision medicine. Nature Reviews Cardiology, 2016, 13, 333-349.	6.1	152
41	Genome Editing of Isogenic Human Induced Pluripotent Stem Cells Recapitulates Long QT Phenotype for Drug Testing. Journal of the American College of Cardiology, 2014, 64, 451-459.	1.2	149
42	Transplanted terminally differentiated induced pluripotent stem cells are accepted by immune mechanisms similar to self-tolerance. Nature Communications, 2014, 5, 3903.	5.8	148
43	iPSC-derived cardiomyocytes reveal abnormal TGF-Î² signalling in left ventricular non-compaction cardiomyopathy. Nature Cell Biology, 2016, 18, 1031-1042.	4.6	148
44	Defining human cardiac transcription factor hierarchies using integrated single-cell heterogeneity analysis. Nature Communications, 2018, 9, 4906.	5.8	147
45	Distilling complexity to advance cardiac tissue engineering. Science Translational Medicine, 2016, 8, 342ps13.	5.8	138
46	Engineered heart tissues and induced pluripotent stem cells: Macro- and microstructures for disease modeling, drug screening, and translational studies. Advanced Drug Delivery Reviews, 2016, 96, 234-244.	6.6	136
47	Activation of PDGF pathway links LMNA mutation to dilated cardiomyopathy. Nature, 2019, 572, 335-340.	13.7	136
48	Human-Induced Pluripotent Stem Cell Model of Trastuzumab-Induced Cardiac Dysfunction in Patients With Breast Cancer. Circulation, 2019, 139, 2451-2465.	1.6	136
49	Human Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes as an In Vitro Model for Coxsackievirus B3â€"Induced Myocarditis and Antiviral Drug Screening Platform. Circulation Research, 2014, 115, 556-566.	2.0	134
50	Comparable calcium handling of human iPSC-derived cardiomyocytes generated by multiple laboratories. Journal of Molecular and Cellular Cardiology, 2015, 85, 79-88.	0.9	134
51	Global position paper on cardiovascular regenerative medicine. European Heart Journal, 2017, 38, 2532-2546.	1.0	133
52	Hurdles to clinical translation of human induced pluripotent stem cells. Journal of Clinical Investigation, 2015, 125, 2551-2557.	3.9	132
53	Transcriptome Profiling of Patient-Specific Human iPSC-Cardiomyocytes Predicts Individual Drug Safety and Efficacy Responses InÂVitro. Cell Stem Cell, 2016, 19, 311-325.	5.2	131
54	Autologous iPSC-Based Vaccines Elicit Anti-tumor Responses InÂVivo. Cell Stem Cell, 2018, 22, 501-513.e7.	5.2	125

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55	Nondestructive nanostraw intracellular sampling for longitudinal cell monitoring. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1866-E1874.	3.3	124
56	Molecular Imaging of Embryonic Stem Cell Misbehavior and Suicide Gene Ablation. Cloning and Stem Cells, 2007, 9, 107-117.	2.6	123
57	Patient and Diseaseâ€"Specific Induced Pluripotent Stem Cells for Discovery of Personalized Cardiovascular Drugs and Therapeutics. Pharmacological Reviews, 2020, 72, 320-342.	7.1	121
58	Transcriptomic Profiling of the Developing Cardiac Conduction System at Single-Cell Resolution. Circulation Research, 2019, 125, 379-397.	2.0	120
59	Effect of Human Donor Cell Source on Differentiation and Function of Cardiac Induced Pluripotent Stem Cells. Journal of the American College of Cardiology, 2014, 64, 436-448.	1.2	119
60	Genome-Wide Temporal Profiling of Transcriptome and Open Chromatin of Early Cardiomyocyte Differentiation Derived From hiPSCs and hESCs. Circulation Research, 2017, 121, 376-391.	2.0	118
61	A Review of Human Pluripotent Stem Cell-Derived Cardiomyocytes for High-Throughput Drug Discovery, Cardiotoxicity Screening, and Publication Standards. Journal of Cardiovascular Translational Research, 2013, 6, 22-30.	1.1	114
62	Comparison of Human Induced Pluripotent and Embryonic Stem Cells: Fraternal or Identical Twins?. Molecular Therapy, 2011, 19, 635-638.	3.7	113
63	Chemically Defined Culture and Cardiomyocyte Differentiation of Human Pluripotent Stem Cells. Current Protocols in Human Genetics, 2015, 87, 21.3.1-21.3.15.	3.5	112
64	Determining the Pathogenicity of a Genomic Variant of Uncertain Significance Using CRISPR/Cas9 and Human-Induced Pluripotent Stem Cells. Circulation, 2018, 138, 2666-2681.	1.6	112
65	Wnt Activation and Reduced Cell-Cell Contact Synergistically Induce Massive Expansion of Functional Human iPSC-Derived Cardiomyocytes. Cell Stem Cell, 2020, 27, 50-63.e5.	5.2	112
66	Passive Stretch Induces Structural and Functional Maturation of Engineered Heart Muscle as Predicted by Computational Modeling. Stem Cells, 2018, 36, 265-277.	1.4	111
67	Large-Scale Single-Cell RNA-Seq Reveals Molecular Signatures of Heterogeneous Populations of Human Induced Pluripotent Stem Cell-Derived Endothelial Cells. Circulation Research, 2018, 123, 443-450.	2.0	110
68	Concise Review: Review and Perspective of Cell Dosage and Routes of Administration From Preclinical and Clinical Studies of Stem Cell Therapy for Heart Disease. Stem Cells Translational Medicine, 2016, 5, 186-191.	1.6	109
69	Modeling Cardiovascular Risks of E-Cigarettes With Human-Induced Pluripotent Stem Cellâ€"Derived Endothelial Cells. Journal of the American College of Cardiology, 2019, 73, 2722-2737.	1.2	108
70	Defective Signaling in the JAK-STAT Pathway Tracks with Chronic Inflammation and Cardiovascular Risk in Aging Humans. Cell Systems, 2016, 3, 374-384.e4.	2.9	107
71	Multiscale technologies for treatment of ischemic cardiomyopathy. Nature Nanotechnology, 2017, 12, 845-855.	15.6	104
72	Use of Human Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes in Preclinical Cancer Drug Cardiotoxicity Testing: A Scientific Statement From the American Heart Association. Circulation Research, 2019, 125, e75-e92.	2.0	103

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73	Use of human induced pluripotent stem cellâ€"derived cardiomyocytes to assess drug cardiotoxicity. Nature Protocols, 2018, 13, 3018-3041.	5.5	102
74	A Human iPSC Double-Reporter System Enables Purification of Cardiac Lineage Subpopulations with Distinct Function and Drug Response Profiles. Cell Stem Cell, 2019, 24, 802-811.e5.	5.2	102
75	Human AML-iPSCs Reacquire Leukemic Properties after Differentiation and Model Clonal Variation of Disease. Cell Stem Cell, 2017, 20, 329-344.e7.	5.2	101
76	Generation of Quiescent Cardiac Fibroblasts From Human Induced Pluripotent Stem Cells for In Vitro Modeling of Cardiac Fibrosis. Circulation Research, 2019, 125, 552-566.	2.0	101
77	Modelling diastolic dysfunction in induced pluripotent stem cell-derived cardiomyocytes from hypertrophic cardiomyopathy patients. European Heart Journal, 2019, 40, 3685-3695.	1.0	100
78	Genome Editing of Human Embryonic Stem Cells and Induced Pluripotent Stem Cells With Zinc Finger Nucleases for Cellular Imaging. Circulation Research, 2012, 111, 1494-1503.	2.0	99
79	Bioacoustic-enabled patterning of human iPSC-derived cardiomyocytes into 3D cardiac tissue. Biomaterials, 2017, 131, 47-57.	5.7	99
80	Potential Strategies to Address the Major Clinical Barriers Facing Stem Cell Regenerative Therapy for Cardiovascular Disease. JAMA Cardiology, 2016, 1, 953.	3.0	97
81	Universal intracellular biomolecule delivery with precise dosage control. Science Advances, 2018, 4, eaat8131.	4.7	95
82	Genome Editing of Induced PluripotentÂStem Cells to Decipher CardiacÂChannelopathy Variant. Journal of the American College of Cardiology, 2018, 72, 62-75.	1.2	94
83	Human Induced Pluripotent Stem Cells as a Platform for Personalized and Precision Cardiovascular Medicine. Physiological Reviews, 2016, 96, 1093-1126.	13.1	93
84	Emerging Research Directions in AdultÂCongenital Heart Disease. Journal of the American College of Cardiology, 2016, 67, 1956-1964.	1.2	91
85	A Premature Termination Codon Mutation in MYBPC3 Causes Hypertrophic Cardiomyopathy via Chronic Activation of Nonsense-Mediated Decay. Circulation, 2019, 139, 799-811.	1.6	91
86	Long term non-invasive imaging of embryonic stem cells using reporter genes. Nature Protocols, 2009, 4, 1192-1201.	5.5	90
87	Cross-Site Reliability of Human Induced Pluripotent stem cell-derived Cardiomyocyte Based Safety Assays Using Microelectrode Arrays: Results from a Blinded CiPA Pilot Study. Toxicological Sciences, 2018, 164, 550-562.	1.4	90
88	Altered Cardiac Energetics and Mitochondrial Dysfunction in Hypertrophic Cardiomyopathy. Circulation, 2021, 144, 1714-1731.	1.6	90
89	Human Induced Pluripotent Stem Cell (hiPSC)-Derived Cells to Assess Drug Cardiotoxicity: Opportunities and Problems. Annual Review of Pharmacology and Toxicology, 2018, 58, 83-103.	4.2	89
90	Intrinsic Endocardial Defects Contribute to Hypoplastic Left Heart Syndrome. Cell Stem Cell, 2020, 27, 574-589.e8.	5.2	89

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91	Strategies for Improving the Maturity of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. Circulation Research, 2018, 123, 512-514.	2.0	88
92	A computational model of induced pluripotent stemâ€cell derived cardiomyocytes incorporating experimental variability from multiple data sources. Journal of Physiology, 2019, 597, 4533-4564.	1.3	87
93	Characterization of the molecular mechanisms underlying increased ischemic damage in the <i>aldehyde dehydrogenase 2</i> genetic polymorphism using a human induced pluripotent stem cell model system. Science Translational Medicine, 2014, 6, 255ra130.	5.8	84
94	Decreasing Striatal 6-FDOPA Uptake with Increasing Duration of Cocaine Withdrawal. Neuropsychopharmacology, 1997, 17, 402-409.	2.8	83
95	Specific Imaging of Bacterial Infection Using 6â€³-¹⁸F-Fluoromaltotriose: A Second-Generation PET Tracer Targeting the Maltodextrin Transporter in Bacteria. Journal of Nuclear Medicine, 2017, 58, 1679-1684.	2.8	79
96	Microfluidic Single-Cell Analysis of Transplanted Human Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes After Acute Myocardial Infarction. Circulation, 2015, 132, 762-771.	1.6	77
97	Transcriptional profiling of reporter genes used for molecular imaging of embryonic stem cell transplantation. Physiological Genomics, 2006, 25, 29-38.	1.0	76
98	Teratoma Formation: A Tool for Monitoring Pluripotency in Stem Cell Research. Current Protocols in Stem Cell Biology, 2015, 32, 4A.8.1-4A.8.17.	3.0	75
99	Human Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes as Models for Cardiac Channelopathies. Circulation Research, 2018, 123, 224-243.	2.0	74
100	A Human Pluripotent Stem Cell Surface N-Glycoproteome Resource Reveals Markers, Extracellular Epitopes, and Drug Targets. Stem Cell Reports, 2014, 3, 185-203.	2.3	73
101	Contractile force generation by 3D hiPSC-derived cardiac tissues is enhanced by rapid establishment of cellular interconnection in matrix with muscle-mimicking stiffness. Biomaterials, 2017, 131, 111-120.	5.7	72
102	Progress, obstacles, and limitations in the use of stem cells in organ-on-a-chip models. Advanced Drug Delivery Reviews, 2019, 140, 3-11.	6.6	72
103	Generation of Human iPSCs from Human Peripheral Blood Mononuclear Cells Using Non-integrative Sendai Virus in Chemically Defined Conditions. Methods in Molecular Biology, 2013, 1036, 81-88.	0.4	72
104	Prolonged survival of transplanted stem cells after ischaemic injury via the slow release of pro-survival peptides from a collagen matrix. Nature Biomedical Engineering, 2018, 2, 104-113.	11.6	71
105	Endothelial deletion of Ino80 disrupts coronary angiogenesis and causes congenital heart disease. Nature Communications, 2018, 9, 368.	5.8	71
106	Single cell expression analysis reveals anatomical and cell cycle-dependent transcriptional shifts during heart development. Development (Cambridge), 2019, 146, .	1.2	71
107	Effects of Ionizing Radiation on Self-Renewal and Pluripotency of Human Embryonic Stem Cells. Cancer Research, 2010, 70, 5539-5548.	0.4	69
108	Shifting machine learning for healthcare from development to deployment and from models to data. Nature Biomedical Engineering, 2022, 6, 1330-1345.	11.6	69

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109	Finding the Rhythm of Sudden Cardiac Death. Circulation Research, 2015, 116, 1989-2004.	2.0	68
110	Molecular and functional resemblance of differentiated cells derived from isogenic human iPSCs and SCNT-derived ESCs. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E11111-E11120.	3.3	68
111	Generation of Endothelial Cells From Human Pluripotent Stem Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 1317-1329.	1.1	67
112	Cardiovascular Molecular Imaging. Radiology, 2007, 244, 337-355.	3.6	66
113	Assessment of the Radiation Effects ofÂCardiac CT Angiography Using ProteinÂandÂGenetic Biomarkers. JACC: Cardiovascular Imaging, 2015, 8, 873-884.	2.3	66
114	Big bottlenecks in cardiovascular tissue engineering. Communications Biology, 2018, 1, 199.	2.0	66
115	Splice-Junction-Based Mapping of Alternative Isoforms in the Human Proteome. Cell Reports, 2019, 29, 3751-3765.e5.	2.9	64
116	Genetic and Epigenetic Regulation of Human Cardiac Reprogramming and Differentiation in Regenerative Medicine. Annual Review of Genetics, 2015, 49, 461-484.	3.2	63
117	Pluripotent Stem Cell-Derived Cardiomyocytes as a Platform for Cell Therapy Applications: Progress and Hurdles for Clinical Translation. Molecular Therapy, 2018, 26, 1624-1634.	3.7	63
118	Effects of Spaceflight on Human Induced Pluripotent Stem Cell-Derived Cardiomyocyte Structure and Function. Stem Cell Reports, 2019, 13, 960-969.	2.3	62
119	Exosomes as Potential Alternatives to Stem Cell Therapy in Mediating Cardiac Regeneration. Circulation Research, 2015, 117, 7-9.	2.0	61
120	Pathogenic LMNA variants disrupt cardiac lamina-chromatin interactions and de-repress alternative fate genes. Cell Stem Cell, 2021, 28, 938-954.e9.	5.2	61
121	Telomere shortening and metabolic compromise underlie dystrophic cardiomyopathy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13120-13125.	3.3	60
122	Molecular imaging of cardiovascular gene products. Journal of Nuclear Cardiology, 2004, 11, 491-505.	1.4	59
123	Truncating Variants in NAA15 Are Associated with Variable Levels of Intellectual Disability, Autism Spectrum Disorder, and Congenital Anomalies. American Journal of Human Genetics, 2018, 102, 985-994.	2.6	59
124	Timeâ€dependent evolution of functional <i>vs.</i> remodeling signaling in induced pluripotent stem cellâ€derived cardiomyocytes and induced maturation with biomechanical stimulation. FASEB Journal, 2016, 30, 1464-1479.	0.2	58
125	High Efficiency Differentiation of Human Pluripotent Stem Cells to Cardiomyocytes and Characterization by Flow Cytometry. Journal of Visualized Experiments, 2014, , 52010.	0.2	56
126	A Comprehensive TALEN-Based Knockout Library for Generating Human-Induced Pluripotent Stem Cellâ€“Based Models for Cardiovascular Diseases. Circulation Research, 2017, 120, 1561-1571.	2.0	56

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127	Clinical trial in a dish using iPSCs shows lovastatin improves endothelial dysfunction and cellular cross-talk in LMNA cardiomyopathy. Science Translational Medicine, 2020, 12, .	5.8	56
128	Cardiac Stem Cell Biology. Circulation Research, 2014, 114, 21-27.	2.0	54
129	Comparison of Non-Coding RNAs in Exosomes and Functional Efficacy of Human Embryonic Stem Cell-versus Induced Pluripotent Stem Cell-Derived Cardiomyocytes. Stem Cells, 2017, 35, 2138-2149.	1.4	54
130	MicroRNA-mediated regulation of differentiation and trans-differentiation in stem cells. Advanced Drug Delivery Reviews, 2015, 88, 3-15.	6.6	53
131	Workshop Report. Circulation Research, 2019, 125, 855-867.	2.0	53
132	Towards Precision Medicine With Human iPSCs for Cardiac Channelopathies. Circulation Research, 2019, 125, 653-658.	2.0	53
133	Proteasome-Dependent Regulation of Distinct Metabolic States During Long-Term Culture of Human iPSC-Derived Cardiomyocytes. Circulation Research, 2019, 125, 90-103.	2.0	52
134	Effects of Transendocardial CD34 ⁺ Cell Transplantation in Patients With Ischemic Cardiomyopathy. Circulation: Cardiovascular Interventions, 2014, 7, 552-559.	1.4	51
135	Intracoronary Transplantation of CD34+ Cells Is Associated With Improved Myocardial Perfusion in Patients With Nonischemic Dilated Cardiomyopathy. Journal of Cardiac Failure, 2015, 21, 145-152.	0.7	51
136	Novel codon-optimized mini-intronic plasmid for efficient, inexpensive and xeno-free induction of pluripotency. Scientific Reports, 2015, 5, 8081.	1.6	51
137	Telomere shortening is a hallmark of genetic cardiomyopathies. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9276-9281.	3.3	51
138	Cardiovascular Risks in Patients with COVID-19: Potential Mechanisms and Areas of Uncertainty. Current Cardiology Reports, 2020, 22, 34.	1.3	51
139	Accurate nanoelectrode recording of human pluripotent stem cell-derived cardiomyocytes for assaying drugs and modeling disease. Microsystems and Nanoengineering, 2017, 3, 16080.	3.4	49
140	Comparison of Non-human Primate versus Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes for Treatment of Myocardial Infarction. Stem Cell Reports, 2018, 10, 422-435.	2.3	49
141	Proteomic analysis of reporter genes for molecular imaging of transplanted embryonic stem cells. Proteomics, 2006, 6, 6234-6249.	1.3	48
142	Electrophysiologic Characterization of Calcium Handling in Human Induced Pluripotent Stem Cell-Derived Atrial Cardiomyocytes. Stem Cell Reports, 2018, 10, 1867-1878.	2.3	48
143	<i>RRAD</i> mutation causes electrical and cytoskeletal defects in cardiomyocytes derived from a familial case of Brugada syndrome. European Heart Journal, 2019, 40, 3081-3094.	1.0	48
144	Single-Cell RNA Sequencing of Human Embryonic Stem Cell Differentiation Delineates Adverse Effects of Nicotine on Embryonic Development. Stem Cell Reports, 2019, 12, 772-786.	2.3	47

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145	Relationship between Echocardiographic and Magnetic Resonance Derived Measures of Right Ventricular Size and Function in Patients with Pulmonary Hypertension. Journal of the American Society of Echocardiography, 2014, 27, 405-412.	1.2	46
146	Induced Pluripotent Stem Cells. JAMA - Journal of the American Medical Association, 2015, 313, 1613.	3.8	46
147	Air pollution exposure is linked with methylation of immunoregulatory genes, altered immune cell profiles, and increased blood pressure in children. Scientific Reports, 2021, 11, 4067.	1.6	46
148	Right Heart Score for Predicting Outcome in Idiopathic, Familial, or Drug- and Toxin-Associated Pulmonary Arterial Hypertension. JACC: Cardiovascular Imaging, 2015, 8, 627-638.	2.3	44
149	[Pyr1]-Apelin-13 delivery via nano-liposomal encapsulation attenuates pressure overload-induced cardiac dysfunction. Biomaterials, 2015, 37, 289-298.	5.7	44
150	Rapid and Efficient Conversion of Integration-Free Human Induced Pluripotent Stem Cells to GMP-Grade Culture Conditions. PLoS ONE, 2014, 9, e94231.	1.1	43
151	Extracellular Matrix can Recover the Downregulation of Adhesion Molecules after Cell Detachment and Enhance Endothelial Cell Engraftment. Scientific Reports, 2015, 5, 10902.	1.6	43
152	Systematic Characterization of Long Noncoding RNAs Reveals the Contrasting Coordination of <i>Cis</i> - and <i>Trans</i> -Molecular Regulation in Human Fetal and Adult Hearts. Circulation: Cardiovascular Genetics, 2016, 9, 110-118.	5.1	42
153	Clinical Trial in a Dish: Personalized Stem Cellâ€“Derived Cardiomyocyte Assay Compared With Clinical Trial Results for Two <scp>QT</scp>â€Prolonging Drugs. Clinical and Translational Science, 2019, 12, 687-697.	1.5	42
154	Basic and Translational Research in Cardiac Repair and Regeneration. Journal of the American College of Cardiology, 2021, 78, 2092-2105.	1.2	42
155	Endocardial/endothelial angiocrines regulate cardiomyocyte development and maturation and induce features of ventricular non-compaction. European Heart Journal, 2021, 42, 4264-4276.	1.0	41
156	Reconstructing the heart using iPSCs: Engineering strategies and applications. Journal of Molecular and Cellular Cardiology, 2021, 157, 56-65.	0.9	41
157	Pravastatin reverses obesity-induced dysfunction of induced pluripotent stem cell-derived endothelial cells via a nitric oxide-dependent mechanism. European Heart Journal, 2015, 36, 806-816.	1.0	40
158	Genome Editing in Cardiovascular Biology. Circulation Research, 2017, 120, 778-780.	2.0	40
159	Cannabinoid receptor 1 antagonist genistein attenuates marijuana-induced vascular inflammation. Cell, 2022, 185, 1676-1693.e23.	13.5	40
160	Progress in multicellular human cardiac organoids for clinical applications. Cell Stem Cell, 2022, 29, 503-514.	5.2	39
161	Reprogramming and transdifferentiation for cardiovascular development and regenerative medicine: where do we stand?. EMBO Molecular Medicine, 2015, 7, 1090-1103.	3.3	38
162	Transcriptomic and epigenomic differences in human induced pluripotent stem cells generated from six reprogramming methods. Nature Biomedical Engineering, 2017, 1, 826-837.	11.6	38

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163	SETD7 Drives Cardiac Lineage Commitment through Stage-Specific Transcriptional Activation. Cell Stem Cell, 2018, 22, 428-444.e5.	5.2	38
164	Personalized medicine in cardio-oncology: the role of induced pluripotent stem cell. Cardiovascular Research, 2019, 115, 949-959.	1.8	38
165	An orange calcium-modulated bioluminescent indicator for non-invasive activity imaging. Nature Chemical Biology, 2019, 15, 433-436.	3.9	37
166	Endogenous Retrovirus-Derived lncRNA BANCR Promotes Cardiomyocyte Migration in Humans and Non-human Primates. Developmental Cell, 2020, 54, 694-709.e9.	3.1	37
167	Fibrosis of the Neonatal Mouse Heart After Cryoinjury Is Accompanied by Wnt Signaling Activation and Epicardialâ€toâ€Mesenchymal Transition. Journal of the American Heart Association, 2016, 5, e002457.	1.6	36
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