In-Hyun Park

List of Publications by Year
in descending order

113 papers	18,129 citations	38742 50 h-index	30922 102 g-index
118 all docs	118 docs citations	118 times ranked	22031 citing authors

#	Article	IF	Citations
1	Reprogramming of human somatic cells to pluripotency with defined factors. Nature, 2008, 451, 141-146.	27.8	2,670
2	Disease-Specific Induced Pluripotent Stem Cells. Cell, 2008, 134, 877-886.	28.9	2,071
3	Differential methylation of tissue- and cancer-specific CpG island shores distinguishes human induced pluripotent stem cells, embryonic stem cells and fibroblasts. Nature Genetics, 2009, 41, 1350-1353.	21.4	1,076
4	Targeted and genome-scale strategies reveal gene-body methylation signatures in human cells. Nature Biotechnology, 2009, 27, 361-368.	17.5	985
5	Generation of induced pluripotent stem cells from human blood. Blood, 2009, 113, 5476-5479.	1.4	559
6	Engineering of human brain organoids with a functional vascular-like system. Nature Methods, 2019, 16, 1169-1175.	19.0	551
7	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. Nature Biotechnology, 2011, 29, 1132-1144.	17.5	509
8	Fusion of Regionally Specified hPSC-Derived Organoids Models Human Brain Development and Interneuron Migration. Cell Stem Cell, 2017, 21, 383-398.e7.	11.1	508
9	Gene Targeting of a Disease-Related Gene in Human Induced Pluripotent Stem and Embryonic Stem Cells. Cell Stem Cell, 2009, 5, 97-110.	11.1	505
10	Targeted bisulfite sequencing reveals changes in DNA methylation associated with nuclear reprogramming. Nature Biotechnology, 2009, 27, 353-360.	17.5	458
11	Live cell imaging distinguishes bona fide human iPS cells from partially reprogrammed cells. Nature Biotechnology, 2009, 27, 1033-1037.	17.5	445
12	Generation of functional human hepatic endoderm from human induced pluripotent stem cells. Hepatology, 2010, 51, 329-335.	7.3	389
13	Cardiomyocyte Differentiation of Human Induced Pluripotent Stem Cells. Circulation, 2009, 120, 1513-1523.	1.6	386
14	A role for Lin28 in primordial germ-cell development and germ-cell malignancy. Nature, 2009, 460, 909-913.	27.8	354
15	Generation of human-induced pluripotent stem cells. Nature Protocols, 2008, 3, 1180-1186.	12.0	348
16	Down's syndrome suppression of tumour growth and the role of the calcineurin inhibitor DSCR1. Nature, 2009, 459, 1126-1130.	27.8	341
17	Regulatory networks define phenotypic classes of human stem cell lines. Nature, 2008, 455, 401-405.	27.8	321
18	Mutant induced pluripotent stem cell lines recapitulate aspects of TDP-43 proteinopathies and reveal cell-specific vulnerability. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5803-5808.	7.1	308

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19	hESC-Derived Thalamic Organoids Form Reciprocal Projections When Fused with Cortical Organoids. Cell Stem Cell, 2019, 24, 487-497.e7.	11.1	305
20	Telomere elongation in induced pluripotent stem cells from dyskeratosis congenita patients. Nature, 2010, 464, 292-296.	27.8	302
21	Reprogramming of T Cells from Human Peripheral Blood. Cell Stem Cell, 2010, 7, 15-19.	11.1	288
22	Transplantation of Adult Mouse iPS Cell-Derived Photoreceptor Precursors Restores Retinal Structure and Function in Degenerative Mice. PLoS ONE, 2011, 6, e18992.	2.5	283
23	Induced pluripotent stem cells for neural tissue engineering. Biomaterials, 2011, 32, 5023-5032.	11.4	214
24	Neuronal maturation defect in induced pluripotent stem cells from patients with Rett syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14169-14174.	7.1	187
25	Neuronal Properties, In Vivo Effects, and Pathology of a Huntington's Disease Patient-Derived Induced Pluripotent Stem Cells. Stem Cells, 2012, 30, 2054-2062.	3.2	167
26	PLD1 Regulates mTOR Signaling and Mediates Cdc42 Activation of S6K1. Current Biology, 2003, 13, 2037-2044.	3.9	156
27	IGF-II transcription in skeletal myogenesis is controlled by mTOR and nutrients. Journal of Cell Biology, 2003, 163, 931-936.	5.2	152
28	Synthetic Analyses of Single-Cell Transcriptomes from Multiple Brain Organoids and Fetal Brain. Cell Reports, 2020, 30, 1682-1689.e3.	6.4	150
29	An Extensive Network of TET2-Targeting MicroRNAs Regulates Malignant Hematopoiesis. Cell Reports, 2013, 5, 471-481.	6.4	139
30	Histone Deacetylases Positively Regulate Transcription through the Elongation Machinery. Cell Reports, 2015, 13, 1444-1455.	6.4	138
31	Directed differentiation of hematopoietic precursors and functional osteoclasts from human ES and iPS cells. Blood, 2010, 115, 2769-2776.	1.4	135
32	Overcoming reprogramming resistance of Fanconi anemia cells. Blood, 2012, 119, 5449-5457.	1.4	133
33	Altered hematopoiesis in trisomy 21 as revealed through in vitro differentiation of isogenic human pluripotent cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17567-17572.	7.1	129
34	Modeling Supravalvular Aortic Stenosis Syndrome With Human Induced Pluripotent Stem Cells. Circulation, 2012, 126, 1695-1704.	1.6	106
35	Two methods for full-length RNA sequencing for low quantities of cells and single cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 594-599.	7.1	103
36	Hematopoietic Development from Human Induced Pluripotent Stem Cells. Annals of the New York Academy of Sciences, 2009, 1176, 219-227.	3.8	100

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37	MicroRNA Profiling Reveals Two Distinct p53-Related Human Pluripotent Stem Cell States. Cell Stem Cell, 2010, 7, 671-681.	11.1	98
38	Induced pluripotent stem cell models from Xâ€linked adrenoleukodystrophy patients. Annals of Neurology, 2011, 70, 402-409.	5.3	94
39	Direct Reprogramming of Human Dermal Fibroblasts Into Endothelial Cells Using ER71/ETV2. Circulation Research, 2017, 120, 848-861.	4.5	90
40	Cell cycle adaptations of embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19252-19257.	7.1	85
41	Regulation of Ribosomal S6 Kinase 2 by Mammalian Target of Rapamycin. Journal of Biological Chemistry, 2002, 277, 31423-31429.	3.4	83
42	In vitro generation of germ cells from murine embryonic stem cells. Nature Protocols, 2006, 1, 2026-2036.	12.0	82
43	Hematopoietic differentiation of induced pluripotent stem cells from patients with mucopolysaccharidosis type I (Hurler syndrome). Blood, 2011, 117, 839-847.	1.4	82
44	Mammalian Target of Rapamycin (mTOR) Signaling Is Required for a Late-stage Fusion Process during Skeletal Myotube Maturation. Journal of Biological Chemistry, 2005, 280, 32009-32017.	3.4	79
45	Human Pluripotent Stem Cells Produce Natural Killer Cells That Mediate Anti-HIV-1 Activity by Utilizing Diverse Cellular Mechanisms. Journal of Virology, 2011, 85, 43-50.	3.4	77
46	A Nuclear Transport Signal in Mammalian Target of Rapamycin Is Critical for Its Cytoplasmic Signaling to S6 Kinase 1. Journal of Biological Chemistry, 2006, 281, 7357-7363.	3.4	71
47	Skeletal myocyte hypertrophy requires mTOR kinase activity and S6K1. Experimental Cell Research, 2005, 309, 211-219.	2.6	69
48	Therapeutic Potential of Human Induced Pluripotent Stem Cells in Experimental Stroke. Cell Transplantation, 2013, 22, 1427-1440.	2.5	69
49	Human induced pluripotent stem cells and neurodegenerative disease. Current Opinion in Neurology, 2012, 25, 125-130.	3.6	64
50	A Robust Approach to Identifying Tissue-Specific Gene Expression Regulatory Variants Using Personalized Human Induced Pluripotent Stem Cells. PLoS Genetics, 2009, 5, e1000718.	3.5	55
51	Dysregulation of BRD4 Function Underlies the Functional Abnormalities of MeCP2 Mutant Neurons. Molecular Cell, 2020, 79, 84-98.e9.	9.7	53
52	Enhanced Therapeutic and Long-Term Dynamic Vascularization Effects of Human Pluripotent Stem Cellâ€"Derived Endothelial Cells Encapsulated in a Nanomatrix Gel. Circulation, 2017, 136, 1939-1954.	1.6	51
53	Expression of the transcription factor PU.1 induces the generation of microglia-like cells in human cortical organoids. Nature Communications, 2022, 13, 430.	12.8	49
54	Modelling Human Disease with Pluripotent Stem Cells. Current Gene Therapy, 2013, 13, 99-110.	2.0	46

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55	Single cell transcriptomics reveals unanticipated features of early hematopoietic precursors. Nucleic Acids Research, 2017, 45, gkw1214.	14.5	40
56	MeCP2 Regulates the Synaptic Expression of a Dysbindin-BLOC-1 Network Component in Mouse Brain and Human Induced Pluripotent Stem Cell-Derived Neurons. PLoS ONE, 2013, 8, e65069.	2.5	38
57	Uhrf1 regulates active transcriptional marks at bivalent domains in pluripotent stem cells through Setd1a. Nature Communications, 2018, 9, 2583.	12.8	35
58	The RNA exosome nuclease complex regulates human embryonic stem cell differentiation. Journal of Cell Biology, 2019, 218, 2564-2582.	5.2	35
59	In Vivo Roles of a Patient-Derived Induced Pluripotent Stem Cell Line (HD72-iPSC) in the YAC128 Model of Huntingtonâ€™s Disease. International Journal of Stem Cells, 2014, 7, 43-47.	1.8	34
60	X Chromosome of Female Cells Shows Dynamic Changes in Status during Human Somatic Cell Reprogramming. Stem Cell Reports, 2014, 2, 896-909.	4.8	33
61	Ethanol Upregulates NMDA Receptor Subunit Gene Expression in Human Embryonic Stem Cell-Derived Cortical Neurons. PLoS ONE, 2015, 10, e0134907.	2.5	33
62	Transcriptional regulation in pluripotent stem cells by methyl CpG-binding protein 2 (MeCP2). Human Molecular Genetics, 2014, 23, 1045-1055.	2.9	32
63	Regulation of the DNA Methylation Landscape in Human Somatic Cell Reprogramming by the miR-29 Family. Stem Cell Reports, 2016, 7, 43-54.	4.8	31
64	Bisulfite-independent analysis of CpG island methylation enables genome-scale stratification of single cells. Nucleic Acids Research, 2017, 45, gkx026.	14.5	31
65	Modeling and correction of structural variations in patient-derived iPSCs using CRISPR/Cas9. Nature Protocols, 2016, 11, 2154-2169.	12.0	27
66	How well do brain organoids capture your brain?. IScience, 2021, 24, 102063.	4.1	27
67	Tgif1 Counterbalances the Activity of Core Pluripotency Factors in Mouse Embryonic Stem Cells. Cell Reports, 2015, 13, 52-60.	6.4	26
68	Human iPS Cell Derivation/Reprogramming. Current Protocols in Stem Cell Biology, 2009, 8, Unit 4A.1.	3.0	25
69	Investigation of Rett syndrome using pluripotent stem cells. Journal of Cellular Biochemistry, 2013, 114, 2446-2453.	2.6	24
70	Generation of Regionally Specified Human Brain Organoids Resembling Thalamus Development. STAR Protocols, 2020, 1, 100001.	1.2	24
71	Exploration of alcohol use disorder-associated brain miRNAâ€“mRNA regulatory networks. Translational Psychiatry, 2021, 11, 504.	4.8	23
72	Generation and Fusion of Human Cortical and Medial Ganglionic Eminence Brain Organoids. Current Protocols in Stem Cell Biology, 2018, 47, e61.	3.0	21

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73	Implantation of the clinical-grade human neural stem cell line, <i>CTX0E03</i>, rescues the behavioral and pathological deficits in the quinolinic acid-lesioned rodent model of Huntington's disease. Stem Cells, 2020, 38, 936-947.	3.2	21
74	Deconstructing and reconstructing the human brain with regionally specified brain organoids. Seminars in Cell and Developmental Biology, 2021, 111, 40-51.	5.0	21
75	Transcriptome Signature and Regulation in Human Somatic Cell Reprogramming. Stem Cell Reports, 2015, 4, 1125-1139.	4.8	19
76	Genes causing congenital hydrocephalus: Their chromosomal characteristics of telomere proximity and DNA compositions. Experimental Neurology, 2021, 335, 113523.	4.1	19
77	Analysis of Differential Proteomes of Induced Pluripotent Stem Cells by Protein-Based Reprogramming of Fibroblasts. Journal of Proteome Research, 2011, 10, 977-989.	3.7	18
78	Mural Cell-Specific Deletion of Cerebral Cavernous Malformation 3 in the Brain Induces Cerebral Cavernous Malformations. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 2171-2186.	2.4	18
79	Regeneration of infarcted mouse hearts by cardiovascular tissue formed via the direct reprogramming of mouse fibroblasts. Nature Biomedical Engineering, 2021, 5, 880-896.	22.5	18
80	Humanized murine model for HBV and HCV using human induced pluripotent stem cells. Archives of Pharmacal Research, 2012, 35, 261-269.	6.3	15
81	Development of a novel two-dimensional directed differentiation system for generation of cardiomyocytes from human pluripotent stem cells. International Journal of Cardiology, 2013, 168, 41-52.	1.7	14
82	Intracerebral Transplants of GMP-Grade Human Umbilical Cord-Derived Mesenchymal Stromal Cells Effectively Treat Subacute-Phase Ischemic Stroke in a Rodent Model. Frontiers in Cellular Neuroscience, 2020, 14, 546659.	3.7	14
83	Regional specification and complementation with non-neuroectodermal cells in human brain organoids. Journal of Molecular Medicine, 2021, 99, 489-500.	3.9	14
84	Region Specific Brain Organoids to Study Neurodevelopmental Disorders. International Journal of Stem Cells, 2022, 15, 26-40.	1.8	14
85	Dnmt1 regulates the myogenic lineage specification of muscle stem cells. Scientific Reports, 2016, 6, 35355.	3.3	13
86	Vulnerability of cholecystokinin-expressing GABAergic interneurons in the unilateral intrahippocampal kainate mouse model of temporal lobe epilepsy. Experimental Neurology, 2021, 342, 113724.	4.1	11
87	Reprogramming progressive cells display low CAG promoter activity. Stem Cells, 2021, 39, 43-54.	3.2	11
88	Getting the right cells. ELife, 0, 11, .	6.0	10
89	Transformation of somatic cells into stem cellâ€like cells under a stromal niche. FASEB Journal, 2013, 27, 2644-2656.	0.5	9
90	The lesser known story of X chromosome reactivation. Cell Cycle, 2012, 11, 229-235.	2.6	7

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91	Debugging cellular reprogramming. Nature Cell Biology, 2007, 9, 871-873.	10.3	6
92	Role of Zscan4 in secondary murine iPSC derivation mediated by protein extracts of ESC or iPSC. Biomaterials, 2015, 59, 102-115.	11.4	6
93	The Zebrafish Homologue of the Murine Ecotropic Viral Integration Site-1 (. Evi-1) gene Regulates Zebrafish Embryonic Blood Development.. Blood, 2009, 114, 1461-1461.	1.4	6
94	DYS-HAC-iPS Cells: The Combination of Gene and Cell Therapy to Treat Duchenne Muscular Dystrophy. Molecular Therapy, 2010, 18, 238-240.	8.2	5
95	Impact of Retrotransposons in Pluripotent Stem Cells. Molecules and Cells, 2012, 34, 509-516.	2.6	5
96	Hematopoietic Development From Human Induced Pluripotent Stem Cells.. Blood, 2009, 114, 2530-2530.	1.4	4
97	The critical role of persistent sodium current in hippocampal gamma oscillations. Neuropharmacology, 2020, 162, 107787.	4.1	3
98	Five classic articles in somatic cell reprogramming. Yale Journal of Biology and Medicine, 2010, 83, 135-7.	0.2	2
99	Altered Hematopoiesis in Trisomy 21 As Revealed Through In Vitro Differentiation of Isogenic Human Pluripotent Cells. Blood, 2011, 118, 921-921.	1.4	1
100	Telomere Elongation in Dyskeratosis Congenita Induced Pluripotent Stem Cells.. Blood, 2009, 114, 497-497.	1.4	1
101	Live isolation of naÃ¯ve ESCs via distinct glucose metabolism and stored glycogen. Metabolic Engineering, 2022, 72, 97-106.	7.0	1
102	Human Down syndrome microglia are up for a synaptic feast. Cell Stem Cell, 2022, 29, 1007-1008.	11.1	1
103	Trivalent Chromatin Marks the Way iN. Cell Stem Cell, 2013, 13, 510-512.	11.1	0
104	New Advances in Human X Chromosome Status from a Developmental and Stem Cell Biology. Tissue Engineering and Regenerative Medicine, 2017, 14, 643-652.	3.7	0
105	Scalable small molecule derived mini-liver organoids from human pluripotent stem cells. Journal of Hepatology, 2020, 73, S91.	3.7	0
106	Patient-Specific Induced Pluripotent Stem Cells in Hurler Syndrome. Blood, 2008, 112, 386-386.	1.4	0
107	Natural Killer Cells Derived From Human Pluripotent Stem Cells Provide a Novel Method to Treat HIV-1 Infection.. Blood, 2009, 114, 280-280.	1.4	0
108	Recent Advances and Future Perspectives on Somatic Cell Reprogramming. , 2011, , 13-29.		0

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109	Gene-Correction Rescues Reprogramming of Fanconi Anemia Fibroblasts and Enables Hematopoietic Differentiation of FA Induced Pluripotent Stem Cells in Vitro and In Vivo. Blood, 2011, 118, 672-672.	1.4	0
110	Evi-1 Regulates Myelopoiesis and Hematopoietic Stem Cell Development in Zebrafish and Human Pluripotent Stem Cells. Blood, 2011, 118, 1281-1281.	1.4	0
111	A Dual Role of Evi-1 During Developmental Hematopoiesis. Blood, 2012, 120, 765-765.	1.4	0
112	Developing a Model of Human Pluripotent to Hematopoietic Stem Cell Development in Mistrg Mice. Blood, 2015, 126, 4755-4755.	1.4	0
113	3 Genetic and Epigenetic Considerations in iPSC Technology. , 2017, , 51-86.		0