Krishanu Saha

List of Publications by Year
in descending order

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73 papers	7,297 citations	147801 31 h-index	95266 68 g-index
82 all docs	82 docs citations	82 times ranked	10587 citing authors

#	Article	IF	Citations
1	Substrate Modulus Directs Neural Stem Cell Behavior. Biophysical Journal, 2008, 95, 4426-4438.	0.5	947
2	Direct cell reprogramming is a stochastic process amenable to acceleration. Nature, 2009, 462, 595-601.	27.8	936
3	Human embryonic stem cells with biological and epigenetic characteristics similar to those of mouse ESCs. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9222-9227.	7.1	755
4	Pluripotency and Cellular Reprogramming: Facts, Hypotheses, Unresolved Issues. Cell, 2010, 143, 508-525.	28.9	635
5	Combinatorial development of biomaterials for clonal growth of human pluripotent stem cells. Nature Materials, 2010, 9, 768-778.	27.5	504
6	Reprogramming of murine and human somatic cells using a single polycistronic vector. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 157-162.	7.1	453
7	Technical Challenges in Using Human Induced Pluripotent Stem Cells to Model Disease. Cell Stem Cell, 2009, 5, 584-595.	11.1	379
8	A biodegradable nanocapsule delivers a Cas9 ribonucleoprotein complex for in vivo genome editing. Nature Nanotechnology, 2019, 14, 974-980.	31.5	252
9	Designing synthetic materials to control stem cell phenotype. Current Opinion in Chemical Biology, 2007, 11, 381-387.	6.1	208
10	Comparative Study of IgG Binding to Proteins G and A:Â Nonequilibrium Kinetic and Binding Constant Determination with the Acoustic Waveguide Device. Analytical Chemistry, 2003, 75, 835-842.	6.5	161
11	Surface-engineered substrates for improved human pluripotent stem cell culture under fully defined conditions. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18714-18719.	7.1	137
12	Assembly of CRISPR ribonucleoproteins with biotinylated oligonucleotides via an RNA aptamer for precise gene editing. Nature Communications, 2017, 8, 1711.	12.8	121
13	Signal dynamics in Sonic hedgehog tissue patterning. Development (Cambridge), 2006, 133, 889-900.	2.5	107
14	Sensitivity of the acoustic waveguide biosensor to protein binding as a function of the waveguide properties. Biosensors and Bioelectronics, 2003, 18, 1399-1406.	10.1	97
15	Biomimetic interfacial interpenetrating polymer networks control neural stem cell behavior. Journal of Biomedical Materials Research - Part A, 2007, 81A, 240-249.	4.0	97
16	Classification of T-cell activation via autofluorescence lifetime imaging. Nature Biomedical Engineering, 2021, 5, 77-88.	22.5	92
17	Modulus-dependent macrophage adhesion and behavior. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 1363-1382.	3.5	87
18	The NIH Somatic Cell Genome Editing program. Nature, 2021, 592, 195-204.	27.8	84

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19	CRISPR/Cas9 editing of APP C-terminus attenuates Î²-cleavage and promotes Î±-cleavage. Nature Communications, 2019, 10, 53.	12.8	81
20	Surface Creasing Instability of Soft Polyacrylamide Cell Culture Substrates. Biophysical Journal, 2010, 99, L94-L96.	0.5	72
21	Î±-5 Laminin Synthesized by Human Pluripotent Stem Cells Promotes Self-Renewal. Stem Cell Reports, 2015, 5, 195-206.	4.8	59
22	Scarless Genome Editing of Human Pluripotent Stem Cells via Transient Puromycin Selection. Stem Cell Reports, 2018, 10, 642-654.	4.8	58
23	Bioengineering Solutions for Manufacturing Challenges in CAR T Cells. Biotechnology Journal, 2018, 13, 1700095.	3.5	56
24	A pH-responsive silicaâ€“metalâ€“organic framework hybrid nanoparticle for the delivery of hydrophilic drugs, nucleic acids, and CRISPR-Cas9 genome-editing machineries. Journal of Controlled Release, 2020, 324, 194-203.	9.9	55
25	Genome engineering of induced pluripotent stem cells to manufacture natural killer cell therapies. Stem Cell Research and Therapy, 2020, 11, 234.	5.5	55
26	Multivalency of Sonic Hedgehog Conjugated to Linear Polymer Chains Modulates Protein Potency. Bioconjugate Chemistry, 2008, 19, 806-812.	3.6	50
27	Versatile Redox-Responsive Polyplexes for the Delivery of Plasmid DNA, Messenger RNA, and CRISPR-Cas9 Genome-Editing Machinery. ACS Applied Materials & Interfaces, 2018, 10, 31915-31927.	8.0	49
28	Establishment of Reporter Lines for Detecting Fragile X Mental Retardation (FMR1) Gene Reactivation in Human Neural Cells. Stem Cells, 2017, 35, 158-169.	3.2	44
29	Treat donors as partners in biobank research. Nature, 2011, 478, 312-313.	27.8	37
30	Probing the Viscoelasticity and Mass of a Surface-Bound Protein Layer with an Acoustic Waveguide Device. Langmuir, 2003, 19, 1304-1311.	3.5	35
31	Manufacturing Cell Therapies Using Engineered Biomaterials. Trends in Biotechnology, 2017, 35, 971-982.	9.3	35
32	Human iPSC Modeling Reveals Mutation-Specific Responses to Gene Therapy in a Genotypically Diverse Dominant Maculopathy. American Journal of Human Genetics, 2020, 107, 278-292.	6.2	35
33	Data-driven phenotype discovery of FMR1 premutation carriers in a population-based sample. Science Advances, 2019, 5, eaaw7195.	10.3	33
34	Strategies from UW-Madison for rescuing biomedical research in the US. ELife, 2015, 4, e09305.	6.0	30
35	Access to Stem Cells and Data: Persons, Property Rights, and Scientific Progress. Science, 2011, 331, 725-727.	12.6	28
36	Building Capacity for a Global Genome Editing Observatory: Conceptual Challenges. Trends in Biotechnology, 2018, 36, 639-641.	9.3	28

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37	Democratic Governance of Human Germline Genome Editing. CRISPR Journal, 2019, 2, 266-271.	2.9	27
38	Drug-loaded nanoparticles induce gene expression in human pluripotent stem cell derivatives. Nanoscale, 2014, 6, 521-531.	5.6	26
39	High content analysis platform for optimization of lipid mediated CRISPR-Cas9 delivery strategies in human cells. Acta Biomaterialia, 2016, 34, 143-158.	8.3	25
40	Highâ€content imaging with micropatterned multiwell plates reveals influence of cell geometry and cytoskeleton on chromatin dynamics. Biotechnology Journal, 2015, 10, 1555-1567.	3.5	24
41	A stochastic model dissects cell states in biological transition processes. Scientific Reports, 2014, 4, 3692.	3.3	24
42	High-Content Analysis of CRISPR-Cas9 Gene-Edited Human Embryonic Stem Cells. Stem Cell Reports, 2016, 6, 109-120.	4.8	23
43	Building Capacity for a Global Genome Editing Observatory: Institutional Design. Trends in Biotechnology, 2018, 36, 741-743.	9.3	23
44	Manufacturing Cell Therapies: The Paradigm Shift in Health Care of This Century. NAM Perspectives, 2017, 7, .	2.9	23
45	Carbomer-based adjuvant elicits CD8 T-cell immunity by inducing a distinct metabolic state in cross-presenting dendritic cells. PLoS Pathogens, 2021, 17, e1009168.	4.7	19
46	Nanofibrous Electrospun Polymers for Reprogramming Human Cells. Cellular and Molecular Bioengineering, 2014, 7, 379-393.	2.1	18
47	Constitutionalism at the Nexus of Life and Law. Science Technology and Human Values, 2020, 45, 979-1000.	3.1	17
48	The potential of CAR T therapy for relapsed or refractory pediatric and young adult B-cell ALL. Therapeutics and Clinical Risk Management, 2018, Volume 14, 1573-1584.	2.0	16
49	Opening stem cell research and development: a policy proposal for the management of data, intellectual property, and ethics. Yale Journal of Health Policy, Law, and Ethics, 2009, 9, 52-127.	1.5	14
50	Multi-cellular engineered living systems: building a community around responsible research on emergence. Biofabrication, 2019, 11, 043001.	7.1	13
51	Automated screening for Fragile X premutation carriers based on linguistic and cognitive computational phenotypes. Scientific Reports, 2017, 7, 2674.	3.3	11
52	Disease modeling using pluripotent stem cells: making sense of disease from bench to bedside. Swiss Medical Weekly, 2011, 141, w13144.	1.6	10
53	The inconvenience of data of convenience: computational research beyond post-mortem analyses. Nature Methods, 2017, 14, 937-938.	19.0	9
54	Increasing the precision of gene editing inÂvitro, exÂvivo, and inÂvivo. Current Opinion in Biomedical Engineering, 2018, 7, 83-90.	3.4	8

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55	Controlling CRISPR with small molecule regulation for somatic cell genome editing. Molecular Therapy, 2022, 30, 17-31.	8.2	8
56	Developing precision medicine using scarless genome editing of human pluripotent stem cells. Drug Discovery Today: Technologies, 2018, 28, 3-12.	4.0	7
57	Design of efficacious somatic cell genome editing strategies for recessive and polygenic diseases. Nature Communications, 2020, 11, 6277.	12.8	7
58	Allying with Donors to Link Health and Medical Information with Stem Cell Lines Can Advance Disease Modeling while Enhancing Data Access. Cell Stem Cell, 2014, 14, 559-560.	11.1	6
59	Tracking and Predicting Human Somatic Cell Reprogramming Using Nuclear Characteristics. Biophysical Journal, 2020, 118, 2086-2102.	0.5	6
60	Signal dynamics in Sonic hedgehog tissue patterning. Development (Cambridge), 2006, 133, 1411-1411.	2.5	5
61	Effect of thickness and Ti interlayers on stresses and texture transformations in thin Ag films during thermal cycling. Applied Physics Letters, 2013, 103, 191905.	3.3	5
62	In situ autofluorescence lifetime assay of a photoreceptor stimulus response in mouse retina and human retinal organoids. Biomedical Optics Express, 2022, 13, 3476.	2.9	5
63	Genome Editing in Human Pluripotent Stem Cells. Methods in Molecular Biology, 2017, 1590, 165-174.	0.9	4
64	Integrating Biomaterials and Genome Editing Approaches to Advance Biomedical Science. Annual Review of Biomedical Engineering, 2021, 23, 493-516.	12.3	4
65	Fairness in Manufacturing Cellular Therapies. American Journal of Bioethics, 2018, 18, 68-70.	0.9	2
66	Machine learning approach to measurement of criticism: The core dimension of expressed emotion.. Journal of Family Psychology, 2021, 35, 1007-1015.	1.3	2
67	Psychobiology of Stress and Adolescent Depression (PSY SAD) Study: Protocol overview for an fMRI-based multi-method investigation. Brain, Behavior, & Immunity - Health, 2021, 17, 100334.	2.5	2
68	Single-cell technologies to dissect heterogenous immune cell therapy products. Current Opinion in Biomedical Engineering, 2021, 20, 100343.	3.4	1
69	A CRISPR/Cas9 Based Strategy to Manipulate the Alzheimerrs Amyloid Pathway. SSRN Electronic Journal, 0, , .	0.4	1
70	Label-Free Imaging to Track Reprogramming of Human Somatic Cells. , 2022, 1, 176-191.		1
71	575. High Content Analysis of CRISPR-Cas9 Gene-Edited Human Embryonic Stem Cells. Molecular Therapy, 2016, 24, S229-S230.	8.2	0
72	335. High Content Analysis Platform for Optimization of Lipid Mediated CRISPR-Cas9 Delivery Strategies in Human Cells. Molecular Therapy, 2016, 24, S133.	8.2	0

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73	Response to Beriain. Trends in Biotechnology, 2018, 36, 1206-1207.	9.3	0