

Matthew C Canver

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

2,797
citations

20
h-index

48
g-index

48
ext. papers

3,707
ext. citations

11.7
avg, IF

4.92
L-index

#	Paper	IF	Citations
47	BCL11A enhancer dissection by Cas9-mediated in situ saturating mutagenesis. <i>Nature</i> , 2015 , 527, 192-7	50.4	528
46	An erythroid enhancer of BCL11A subject to genetic variation determines fetal hemoglobin level. <i>Science</i> , 2013 , 342, 253-7	33.3	400
45	CRISPResso2 provides accurate and rapid genome editing sequence analysis. <i>Nature Biotechnology</i> , 2019 , 37, 224-226	44.5	326
44	Analyzing CRISPR genome-editing experiments with CRISPResso. <i>Nature Biotechnology</i> , 2016 , 34, 695-7	44.5	286
43	Characterization of genomic deletion efficiency mediated by clustered regularly interspaced short palindromic repeats (CRISPR)/Cas9 nuclease system in mammalian cells. <i>Journal of Biological Chemistry</i> , 2014 , 289, 21312-24	5.4	236
42	Transcription factors LRF and BCL11A independently repress expression of fetal hemoglobin. <i>Science</i> , 2016 , 351, 285-9	33.3	187
41	miRNA-embedded shRNAs for Lineage-specific BCL11A Knockdown and Hemoglobin F Induction. <i>Molecular Therapy</i> , 2015 , 23, 1465-74	11.7	82
40	Generation of genomic deletions in mammalian cell lines via CRISPR/Cas9. <i>Journal of Visualized Experiments</i> , 2015 , e52118	1.6	75
39	Variant-aware saturating mutagenesis using multiple Cas9 nucleases identifies regulatory elements at trait-associated loci. <i>Nature Genetics</i> , 2017 , 49, 625-634	36.3	73
38	Human genetic variation alters CRISPR-Cas9 on- and off-targeting specificity at therapeutically implicated loci. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E11257-E11266	11.5	66
37	EHMT1 and EHMT2 inhibition induces fetal hemoglobin expression. <i>Blood</i> , 2015 , 126, 1930-9	2.2	64
36	Genome-wide CRISPR-Cas9 Screen Identifies Leukemia-Specific Dependence on a Pre-mRNA Metabolic Pathway Regulated by DCPS. <i>Cancer Cell</i> , 2018 , 33, 386-400.e5	24.3	57
35	PRC2 Is Required to Maintain Expression of the Maternal Gtl2-Rian-Mirg Locus by Preventing De Novo DNA Methylation in Mouse Embryonic Stem Cells. <i>Cell Reports</i> , 2015 , 12, 1456-70	10.6	46
34	Rational targeting of a NuRD subcomplex guided by comprehensive in situ mutagenesis. <i>Nature Genetics</i> , 2019 , 51, 1149-1159	36.3	44
33	Integrated design, execution, and analysis of arrayed and pooled CRISPR genome-editing experiments. <i>Nature Protocols</i> , 2018 , 13, 946-986	18.8	42
32	Customizing the genome as therapy for the Hemoglobinopathies. <i>Blood</i> , 2016 , 127, 2536-45	2.2	38
31	High-Throughput Approaches to Pinpoint Function within the Noncoding Genome. <i>Molecular Cell</i> , 2017 , 68, 44-59	17.6	37

30	Interferon- β signaling promotes embryonic HSC maturation. <i>Blood</i> , 2016 , 128, 204-16	2.2	28
29	Angiopoietin-like proteins stimulate HSPC development through interaction with notch receptor signaling. <i>ELife</i> , 2015 , 4,	8.9	22
28	CRISPRO: identification of functional protein coding sequences based on genome editing dense mutagenesis. <i>Genome Biology</i> , 2018 , 19, 169	18.3	20
27	Functional interrogation of non-coding DNA through CRISPR genome editing. <i>Methods</i> , 2017 , 121-122, 118-129	4.6	19
26	TAF5L and TAF6L Maintain Self-Renewal of Embryonic Stem Cells via the MYC Regulatory Network. <i>Molecular Cell</i> , 2019 , 74, 1148-1163.e7	17.6	19
25	CRISPR-SURF: discovering regulatory elements by deconvolution of CRISPR tiling screen data. <i>Nature Methods</i> , 2018 , 15, 992-993	21.6	17
24	Impact of Genetic Variation on CRISPR-Cas Targeting. <i>CRISPR Journal</i> , 2018 , 1, 159-170	2.5	16
23	CRISPRitz: rapid, high-throughput and variant-aware in silico off-target site identification for CRISPR genome editing. <i>Bioinformatics</i> , 2020 , 36, 2001-2008	7.2	15
22	Downregulation of Endothelin Receptor B Contributes to Defective B Cell Lymphopoiesis in Trisomy 21 Pluripotent Stem Cells. <i>Scientific Reports</i> , 2018 , 8, 8001	4.9	10
21	Histamine H1 and H2 receptor-mediated vasoreactivity of human internal thoracic and radial arteries. <i>Surgery</i> , 2004 , 136, 458-63	3.6	8
20	Improved Performance of a Rapid Immunochromatographic Assay for Detection of PBP2a in Non-Staphylococcus aureus Staphylococcal Species. <i>Journal of Clinical Microbiology</i> , 2019 , 57,	9.7	7
19	Technologies and Computational Analysis Strategies for CRISPR Applications. <i>Molecular Cell</i> , 2020 , 79, 11-29	17.6	7
18	Novel mathematical algorithm for pupillometric data analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2014 , 113, 221-5	6.9	6
17	Performance of Five Commercial Identification Platforms for Identification of Staphylococcus delphini. <i>Journal of Clinical Microbiology</i> , 2019 , 57,	9.7	4
16	Analysis and comparison of genome editing using CRISPResso2		4
15	DrugThatGene: integrative analysis to streamline the identification of druggable genes, pathways and protein complexes from CRISPR screens. <i>Bioinformatics</i> , 2019 , 35, 1981-1984	7.2	3
14	A saturating mutagenesis CRISPR-Cas9-mediated functional genomic screen identifies and regulatory elements of in murine ESCs. <i>Journal of Biological Chemistry</i> , 2020 , 295, 15797-15809	5.4	2
13	Graduate school: the problem of choice. <i>IEEE Pulse</i> , 2012 , 3, 8, 10	0.7	1

12	Fine-Mapping and Genome Editing Reveal An Essential Erythroid Enhancer At The HbF-Associated BCL11A Locus. <i>Blood</i> , 2013 , 122, 437-437	2.2	1
11	Optimization of Bcl11a Knockdown By miRNA Scaffold Embedded Shrnas Leading to Enhanced Induction of Fetal Hemoglobin in Erythroid Cells for the Treatment of Beta-Hemoglobinopathies. <i>Blood</i> , 2014 , 124, 2150-2150	2.2	1
10	Thawed solvent/detergent-treated plasma demonstrates comparable clinical efficacy to thawed plasma. <i>Transfusion</i> , 2020 , 60, 1940-1949	2.9	0
9	Visual evidence of a hemolytic transfusion reaction identified by blood bank testing after emergency blood transfusion. <i>Transfusion</i> , 2019 , 59, 3301-3302	2.9	
8	Accelerated thrombin times are associated with thrombotic risk. <i>American Journal of Hematology</i> , 2020 , 95, E113-E114	7.1	
7	Looking Forward [Perspectives on Graduate Life]. <i>IEEE Pulse</i> , 2013 , 4, 11-65	0.7	
6	Independence Day [Perspectives on Graduate Life]. <i>IEEE Pulse</i> , 2013 , 4, 12-12	0.7	
5	Making the big decision [Perspectives on Graduate Life]. <i>IEEE Pulse</i> , 2013 , 4, 9-10	0.7	
4	Another One in the Books [Perspectives on Graduate Life]. <i>IEEE Pulse</i> , 2013 , 4, 8-62	0.7	
3	Bioengineering Training in Medical Education [Perspectives on Graduate Life]. <i>IEEE Pulse</i> , 2010 , 1, 9-11	0.7	
2	Genome-Wide CRISPR/Cas9 Screen Reveals That the Dcps Scavenger Decapping Enzyme Is Essential for AML Cell Survival. <i>Blood</i> , 2017 , 130, 782-782	2.2	
1	Rational Targeting of a NuRD Sub-Complex for Fetal Hemoglobin Induction Following Comprehensive in Situ Mutagenesis. <i>Blood</i> , 2018 , 132, 2342-2342	2.2	