

Jacob E Corn

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.

48
papers

5,385
citations

27
h-index

56
g-index

56
ext. papers

7,048
ext. citations

15.3
avg, IF

5.63
L-index

#	Paper	IF	Citations
48	ROSETTA3: an object-oriented software suite for the simulation and design of macromolecules. <i>Methods in Enzymology</i> , 2011 , 487, 545-74	1.7	1216
47	Enhancing homology-directed genome editing by catalytically active and inactive CRISPR-Cas9 using asymmetric donor DNA. <i>Nature Biotechnology</i> , 2016 , 34, 339-44	44.5	658
46	Nanoparticle delivery of Cas9 ribonucleoprotein and donor DNA induces homology-directed DNA repair. <i>Nature Biomedical Engineering</i> , 2017 , 1, 889-901	19	404
45	Compact and highly active next-generation libraries for CRISPR-mediated gene repression and activation. <i>ELife</i> , 2016 , 5,	8.9	343
44	RosettaScripts: a scripting language interface to the Rosetta macromolecular modeling suite. <i>PLoS ONE</i> , 2011 , 6, e20161	3.7	311
43	Enhancer connectome in primary human cells identifies target genes of disease-associated DNA elements. <i>Nature Genetics</i> , 2017 , 49, 1602-1612	36.3	253
42	Disabling Cas9 by an anti-CRISPR DNA mimic. <i>Science Advances</i> , 2017 , 3, e1701620	14.3	216
41	USP30 and parkin homeostatically regulate atypical ubiquitin chains on mitochondria. <i>Nature Cell Biology</i> , 2015 , 17, 160-9	23.4	186
40	Unbiased detection of CRISPR off-targets in vivo using DISCOVER-Seq. <i>Science</i> , 2019 , 364, 286-289	33.3	180
39	Advances in genome editing through control of DNA repair pathways. <i>Nature Cell Biology</i> , 2019 , 21, 1468-1478	23.4	146
38	A de novo protein binding pair by computational design and directed evolution. <i>Molecular Cell</i> , 2011 , 42, 250-60	17.6	141
37	CRISPR-Cas9 genome editing in human cells occurs via the Fanconi anemia pathway. <i>Nature Genetics</i> , 2018 , 50, 1132-1139	36.3	126
36	Automated electron-density sampling reveals widespread conformational polymorphism in proteins. <i>Protein Science</i> , 2010 , 19, 1420-31	6.3	112
35	Recognition of UbcH5c and the nucleosome by the Bmi1/Ring1b ubiquitin ligase complex. <i>EMBO Journal</i> , 2011 , 30, 3285-97	13	105
34	Synthetically modified guide RNA and donor DNA are a versatile platform for CRISPR-Cas9 engineering. <i>ELife</i> , 2017 , 6,	8.9	93
33	CRISPR germline engineering--the community speaks. <i>Nature Biotechnology</i> , 2015 , 33, 478-86	44.5	91
32	Crosstalk between primase subunits can act to regulate primer synthesis in trans. <i>Molecular Cell</i> , 2005 , 20, 391-401	17.6	85

31	Conformational stabilization of ubiquitin yields potent and selective inhibitors of USP7. <i>Nature Chemical Biology</i> , 2013 , 9, 51-8	11.7	72
30	Atlastins remodel the endoplasmic reticulum for selective autophagy. <i>Journal of Cell Biology</i> , 2018 , 217, 3354-3367	7.3	65
29	A Genome-wide ER-phagy Screen Highlights Key Roles of Mitochondrial Metabolism and ER-Resident UFMylation. <i>Cell</i> , 2020 , 180, 1160-1177.e20	56.2	58
28	Binding mechanism of metal-NTP substrates and stringent-response alarmones to bacterial DnaG-type primases. <i>Structure</i> , 2012 , 20, 1478-89	5.2	58
27	THAP proteins target specific DNA sites through bipartite recognition of adjacent major and minor grooves. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 117-23	17.6	54
26	In vitro-transcribed guide RNAs trigger an innate immune response via the RIG-I pathway. <i>PLoS Biology</i> , 2018 , 16, e2005840	9.7	50
25	Ubiquitin in inflammation: the right linkage makes all the difference. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 297-300	17.6	43
24	Identification of a DNA primase template tracking site redefines the geometry of primer synthesis. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 163-9	17.6	43
23	Timed inhibition of CDC7 increases CRISPR-Cas9 mediated templated repair. <i>Nature Communications</i> , 2020 , 11, 2109	17.4	34
22	Hotspot-centric de novo design of protein binders. <i>Journal of Molecular Biology</i> , 2011 , 413, 1047-62	6.5	32
21	BARD1 is necessary for ubiquitylation of nucleosomal histone H2A and for transcriptional regulation of estrogen metabolism genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1316-1321	11.5	27
20	CRISPR off-target detection with DISCOVER-seq. <i>Nature Protocols</i> , 2020 , 15, 1775-1799	18.8	26
19	Controlled Cycling and Quiescence Enables Efficient HDR in Engraftment-Enriched Adult Hematopoietic Stem and Progenitor Cells. <i>Cell Reports</i> , 2020 , 32, 108093	10.6	22
18	Suppression of unwanted CRISPR-Cas9 editing by co-administration of catalytically inactivating truncated guide RNAs. <i>Nature Communications</i> , 2020 , 11, 2697	17.4	19
17	Rosetta in CAPRI rounds 13-19. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 3212-8	4.2	17
16	PnB Designer: a web application to design prime and base editor guide RNAs for animals and plants. <i>BMC Bioinformatics</i> , 2021 , 22, 101	3.6	15
15	CRISPR-Cas9 genome editing in human cells works via the Fanconi Anemia pathway		14
14	FASTDXL: a generalized screen to trap disulfide-stabilized complexes for use in structural studies. <i>Structure</i> , 2007 , 15, 773-80	5.2	13

13	The Histone Chaperone FACT Induces Cas9 Multi-turnover Behavior and Modifies Genome Manipulation in Human Cells. <i>Molecular Cell</i> , 2020 , 79, 221-233.e5	17.6	12
12	The CUL5 ubiquitin ligase complex mediates resistance to CDK9 and MCL1 inhibitors in lung cancer cells. <i>ELife</i> , 2019 , 8,	8.9	11
11	Bioactive TGF-beta can associate with lipoproteins and is enriched in those containing apolipoprotein E3. <i>Journal of Neurochemistry</i> , 2009 , 110, 1254-62	6	9
10	Disabling Cas9 by an anti-CRISPR DNA mimic		6
9	Co-opting CRISPR to deliver functional RNAs. <i>Nature Methods</i> , 2015 , 12, 613-4	21.6	4
8	Using protein motion to read, write, and erase ubiquitin signals. <i>Journal of Biological Chemistry</i> , 2015 , 290, 26437-44	5.4	4
7	Sometimes you're the scooper, and sometimes you get scooped: How to turn both into something good. <i>PLoS Biology</i> , 2018 , 16, e2006843	9.7	3
6	Identification of novel HPFH-like mutations by CRISPR base editing that elevate the expression of fetal hemoglobin.. <i>ELife</i> , 2022 , 11,	8.9	3
5	Timed inhibition of CDC7 increases CRISPR-Cas9 mediated templated repair		2
4	ATF4 mediates fetal globin upregulation in response to reduced Hb globin		1
3	The RosettaCon 2012 Special Collection: Code Writ on Water, Documentation Writ in Stone. <i>PLoS ONE</i> , 2013 , 8, e73775	3.7	1
2	E Pluribus Unum ("Out of Many, One"): CRISPR Modeling of Myeloid Expansion. <i>Cell Stem Cell</i> , 2017 , 21, 415-416	18	
1	Decoding a chain letter for degradation. <i>Structure</i> , 2013 , 21, 1068-70	5.2	