Janice S Chen

List of Publications by Year in Descending Order

25 papers	4,502 citations	16 h-index	28 g-index
28 ext. papers	6,483 ext. citations	22 avg, IF	5.81 L-index

#	Paper	IF	Citations
25	Massively parallel kinetic profiling of natural and engineered CRISPR nucleases. *Nature Biotechnology*, **2021**, 39, 84-93	44.5	26
24	Quantification of Cas9 binding and cleavage across diverse guide sequences maps landscapes of target engagement. *Science Advances*, **2021**, 7,	14.3	4
23	CRISPR-Cas enzymes: The toolkit revolutionizing diagnostics. *Biotechnology Journal*, **2021**, e2100304	5.6	0
22	A scoutRNA Is Required for Some Type V CRISPR-Cas Systems. *Molecular Cell*, **2020**, 79, 416-424.e5	17.6	24
21	CRISPR-Cas12-based detection of SARS-CoV-2. *Nature Biotechnology*, **2020**, 38, 870-874	44.5	1030
20	Rapid Detection of 2019 Novel Coronavirus SARS-CoV-2 Using a CRISPR-based DETECTR Lateral Flow Assay **2020**,		59
19	Deciphering Off-Target Effects in CRISPR-Cas9 through Accelerated Molecular Dynamics. *ACS Central Science*, **2019**, 5, 651-662	16.8	57
18	CRISPR-Cas12a target binding unleashes indiscriminate single-stranded DNase activity. *Science*, **2018**, 360, 436-439	33.3	1091
17	Programmed DNA destruction by miniature CRISPR-Cas14 enzymes. *Science*, **2018**, 362, 839-842	33.3	394
16	Key role of the REC lobe during CRISPR-Cas9 activation by ‘sensing’, ‘regulating’, and ‘docking’ the catalytic HNH domain. *Quarterly Reviews of Biophysics*, **2018**, 51,	7	42
15	The chemistry of Cas9 and its CRISPR colleagues. *Nature Reviews Chemistry*, **2017**, 1,	34.6	69
14	A Broad-Spectrum Inhibitor of CRISPR-Cas9. *Cell*, **2017**, 170, 1224-1233.e15	56.2	145
13	Enhanced proofreading governs CRISPR-Cas9 targeting accuracy. *Nature*, **2017**, 550, 407-410	50.4	619
12	A conformational checkpoint between DNA binding and cleavage by CRISPR-Cas9. *Science Advances* , **2017**, 3, eaao0027	14.3	142
11	A thermostable Cas9 with increased lifetime in human plasma. *Nature Communications*, **2017**, 8, 1424	17.4	88
10	Structures of a CRISPR-Cas9 R-loop complex primed for DNA cleavage. *Science*, **2016**, 351, 867-71	33.3	359
9	Cu/Zn superoxide dismutase and the proton ATPase Pma1p of Saccharomyces cerevisiae. *Biochemical and Biophysical Research Communications*, **2015**, 462, 251-6	3.4	5

List of Publications

8	Efficient solar-to-fuels production from a hybrid microbial-water-splitting catalyst system. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 2337-42	11.5	281
7	Production of fatty acids in Ralstonia eutropha H16 by engineering β-oxidation and carbon storage. *PeerJ*, **2015**, 3, e1468	3.1	24
6	Superoxide triggers an acid burst in Saccharomyces cerevisiae to condition the environment of glucose-starved cells. *Journal of Biological Chemistry*, **2013**, 288, 4557-66	5.4	14
5	A conformational checkpoint between DNA binding and cleavage by CRISPR-Cas9		7
4	Enhanced proofreading governs CRISPR-Cas9 targeting accuracy		5
3	CRISPR-Cas12a target binding unleashes single-stranded DNase activity		7
2	Molecular mechanism of off-target effects in CRISPR-Cas9		4
1	Massively parallel kinetic profiling of natural and engineered CRISPR nucleases		4