Stephen C Kowalczykowski

List of Publications by Year
in descending order

33	3,446	218677	454955
papers	citations	26 h-index	30 g-index

37	37	37	3203
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Charles M. Radding: A love of science and art. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2025935118.	7.1	1
2	Role of the Srs2â€“Rad51 Interaction Domain in Crossover Control in Saccharomyces cerevisiae. Genetics, 2019, 212, 1133-1145.	2.9	4
3	Independent and Stochastic Action of DNA Polymerases in the Replisome. Cell, 2017, 169, 1201-1213.e17.	28.9	136
4	Mechanics and Single-Molecule Interrogation of DNA Recombination. Annual Review of Biochemistry, 2016, 85, 193-226.	11.1	78
5	RecA: Regulation and Mechanism of a Molecular Search Engine. Trends in Biochemical Sciences, 2016, 41, 491-507.	7.5	185
6	BRCA2 regulates DMC1-mediated recombination through the BRC repeats. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3515-3520.	7.1	77
7	Top3-Rmi1 Dissolve Rad51-Mediated D Loops by a Topoisomerase-Based Mechanism. Molecular Cell, 2015, 57, 595-606.	9.7	103
8	MCM8-9 complex promotes resection of double-strand break ends by MRE11-RAD50-NBS1 complex. Nature Communications, 2015, 6, 7744.	12.8	86
9	Sae2 promotes DNA damage resistance by removing the Mre11â€“Rad50â€“Xrs2 complex from DNA and attenuating Rad53 signaling. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1880-7.	7.1	44
10	An Overview of the Molecular Mechanisms of Recombinational DNA Repair. Cold Spring Harbor Perspectives in Biology, 2015, 7, a016410.	5.5	381
11	Single-molecule visualization of RecQ helicase reveals DNA melting, nucleation, and assembly are required for processive DNA unwinding. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6852-61.	7.1	39
12	A Dominant Mutation in Human RAD51 Reveals Its Function in DNA Interstrand Crosslink Repair Independent of Homologous Recombination. Molecular Cell, 2015, 59, 478-490.	9.7	227
13	Imaging and energetics of single SSB-ssDNA molecules reveal intramolecular condensation and insight into RecOR function. ELife, 2015, 4, e08646.	6.0	57
14	RecQ helicase and RecJ nuclease provide complementary functions to resect DNA for homologous recombination. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5133-42.	7.1	63
15	Structural and mechanistic insight into Holliday-junction dissolution by Topoisomerase IIIÎ± and RMI1. Nature Structural and Molecular Biology, 2014, 21, 261-268.	8.2	71
16	1PS045 RAD54, A CHROMATIN REMODELER, TRANSLOCATES ALONG DNA BY TRACKING THE DNA HELIX(The) Tj ETQq0 0 0 rgBT /Overlo	0.1	0
17	Direct imaging of RecA nucleation and growth on single molecules of SSB-coated ssDNA. Nature, 2012, 491, 274-278.	27.8	148
18	RecFOR Proteins Target RecA Protein to a DNA Gap with Either DNA or RNA at the 5â€² Terminus. Journal of Biological Chemistry, 2012, 287, 35621-35630.	3.4	61

#	Article	IF	Citations
19	Single-molecule imaging of DNA pairing by RecA reveals a three-dimensional homology search. Nature, 2012, 482, 423-427.	27.8	192
20	Single-molecule imaging brings Rad51 nucleoprotein filaments into focus. Trends in Cell Biology, 2010, 20, 269-276.	7.9	67
21	Watching Individual Proteins Acting on Single Molecules of DNA. Methods in Enzymology, 2010, 472, 261-291.	1.0	41
22	Reconstitution of initial steps of dsDNA break repair by the RecF pathway of E. coli. Genes and Development, 2009, 23, 1234-1245.	5.9	138
23	Fluorescent Single-Stranded DNA Binding Protein as a Probe for Sensitive, Real-Time Assays of Helicase Activity. Biophysical Journal, 2008, 95, 3330-3339.	0.5	63
24	1P259 Direct visualization of a chromatin-remodeling protein, Rad54, translocating along single-molecules of double-stranded DNA(9. Molecular motor (I),Poster Session,Abstract,Meeting) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.1	0
25	DNA Annealing Mediated by Rad52 and Rad59 Proteins. Journal of Biological Chemistry, 2006, 281, 15441-15449.	3.4	64
26	RecFOR Proteins Load RecA Protein onto Gapped DNA to Accelerate DNA Strand Exchange. Molecular Cell, 2003, 11, 1337-1347.	9.7	379
27	Nonlinear partial differential equations and applications: Escherichia coli RecO protein anneals ssDNA complexed with its cognate ssDNA-binding protein: A common step in genetic recombination. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15327-15332.	7.1	123
28	Enhanced monomer-monomer interactions can suppress the recombination deficiency of the recA142 allele. Molecular Microbiology, 1999, 34, 1-9.	2.5	21
29	Essential monomerâ€“monomer contacts define the minimal length for the Nâ€terminus of RecA protein. Molecular Microbiology, 1998, 29, 1317-1318.	2.5	9
30	Chi-activated RecBCD enzyme possesses 5'3' nucleolytic activity, but RecBC enzyme does not: evidence suggesting that the alteration induced by Chi is not simply ejection of the RecD subunit. Genes To Cells, 1997, 2, 117-128.	1.2	59
31	Interactions of bacteriophage T4-coded gene 32 protein with nucleic acids. Journal of Molecular Biology, 1981, 145, 75-104.	4.2	329
32	Interactions of bacteriophage T4-coded gene 32 protein with nucleic acids. Journal of Molecular Biology, 1981, 145, 105-121.	4.2	160
33	Homologous Recombination by the RecBCD and RecF Pathways. , 0, , 389-403.		40