

Sergey V Korolev

List of Publications by Year in descending order

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53
papers

3,461
citations

236925

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182427

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docs citations

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times ranked

4150
citing authors

#	ARTICLE	IF	CITATIONS
1	Phospholipase iPLA2 $\hat{\imath}^2$ averts ferroptosis by eliminating a redox lipid death signal. <i>Nature Chemical Biology</i> , 2021, 17, 465-476.	8.0	168
2	Structural dissection of sequence recognition and catalytic mechanism of human LINE-1 endonuclease. <i>Nucleic Acids Research</i> , 2021, 49, 11350-11366.	14.5	4
3	Structural Insight into the Mechanism of PALB2 Interaction with MRC15. <i>Genes</i> , 2021, 12, 2002.	2.4	6
4	Novel RNA and DNA strand exchange activity of the PALB2 DNA binding domain and its critical role for DNA repair in cells. <i>ELife</i> , 2019, 8, .	6.0	18
5	The structure of iPLA2 $\hat{\imath}^2$ reveals dimeric active sites and suggests mechanisms of regulation and localization. <i>Nature Communications</i> , 2018, 9, 765.	12.8	53
6	Novel crystal structure of calcium independent phospholipase iPLA2 $\hat{\imath}^2$: mechanism of activity regulation and membrane localization. <i>FASEB Journal</i> , 2018, 32, 672.2.	0.5	0
7	Advances in structural studies of recombination mediator proteins. <i>Biophysical Chemistry</i> , 2017, 225, 27-37.	2.8	18
8	A MUB E2 structure reveals E1 selectivity between cognate ubiquitin E2s in eukaryotes. <i>Nature Communications</i> , 2016, 7, 12580.	12.8	9
9	RecO Protein Initiates DNA Recombination and Strand Annealing through Two Alternative DNA Binding Mechanisms. <i>Journal of Biological Chemistry</i> , 2014, 289, 28846-28855.	3.4	14
10	Rous Sarcoma Virus Synaptic Complex Capable of Concerted Integration Is Kinetically Trapped by Human Immunodeficiency Virus Integrase Strand Transfer Inhibitors. <i>Journal of Biological Chemistry</i> , 2014, 289, 19648-19658.	3.4	8
11	A dual role for mycobacterial RecO in RecA-dependent homologous recombination and RecA-independent single-strand annealing. <i>Nucleic Acids Research</i> , 2013, 41, 2284-2295.	14.5	34
12	High Resolution Crystal Structure of Human $\hat{\imath}^2$ -Glucuronidase Reveals Structural Basis of Lysosome Targeting. <i>PLoS ONE</i> , 2013, 8, e79687.	2.5	52
13	New evidence for dimerization of the short variant of PLA2g6, and regulation of its catalytic activity by Ca ²⁺ /calmodulin and Ca ²⁺ influx factor.. <i>FASEB Journal</i> , 2013, 27, 1004.5.	0.5	0
14	Plasmodium falciparum SSB Tetramer Wraps Single-Stranded DNA with Similar Topology but Opposite Polarity to E. coli SSB. <i>Journal of Molecular Biology</i> , 2012, 420, 269-283.	4.2	36
15	Structural Studies of SSB Interaction with RecO. <i>Methods in Molecular Biology</i> , 2012, 922, 123-131.	0.9	16
16	SSB Functions as a Sliding Platform that Migrates on DNA via Reptation. <i>Cell</i> , 2011, 146, 222-232.	28.9	180
17	SSB Functions as a Sliding Platform that Migrates on DNA via Reptation. <i>Cell</i> , 2011, 146, 485.	28.9	3
18	Rotations of the 2B Sub-domain of E. coli UvrD Helicase/Translocase Coupled to Nucleotide and DNA Binding. <i>Journal of Molecular Biology</i> , 2011, 411, 633-648.	4.2	57

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19	The loop-less tmCdc34 E2 mutant defective in polyubiquitination in vitro and in vivo supports yeast growth in a manner dependent on Ubp14 and Cka2. <i>Cell Division</i> , 2011, 6, 7.	2.4	10
20	Mechanism of RecO recruitment to DNA by single-stranded DNA binding protein. <i>Nucleic Acids Research</i> , 2011, 39, 6305-6314.	14.5	95
21	Retrovirus Integrase-DNA Structure Elucidates Concerted Integration Mechanisms. <i>Viruses</i> , 2010, 2, 1185-1189.	3.3	5
22	ATP Binding, ATP Hydrolysis, and Protein Dimerization Are Required for RecF to Catalyze an Early Step in the Processing and Recovery of Replication Forks Disrupted by DNA Damage. <i>Journal of Molecular Biology</i> , 2010, 401, 579-589.	4.2	9
23	RecR-mediated Modulation of RecF Dimer Specificity for Single- and Double-stranded DNA. <i>Journal of Biological Chemistry</i> , 2009, 284, 1425-1434.	3.4	26
24	SCF E3-Mediated Autoubiquitination Negatively Regulates Activity of Cdc34 E2 but Plays a Nonessential Role in the Catalytic Cycle In Vitro and In Vivo. <i>Molecular and Cellular Biology</i> , 2007, 27, 5860-5870.	2.3	18
25	Mutations in Cohesin Complex Members SMC3 and SMC1A Cause a Mild Variant of Cornelia de Lange Syndrome with Predominant Mental Retardation. <i>American Journal of Human Genetics</i> , 2007, 80, 485-494.	6.2	445
26	Structural conservation of RecF and Rad50: implications for DNA recognition and RecF function. <i>EMBO Journal</i> , 2007, 26, 867-877.	7.8	54
27	The crystal structure of a partial mouse Notch-1 ankyrin domain: Repeats 4 through 7 preserve an ankyrin fold. <i>Protein Science</i> , 2005, 14, 1274-1281.	7.6	27
28	1.6 Å... crystal structure of YteR protein from <i>Bacillus subtilis</i> , a predicted lyase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 60, 561-565.	2.6	7
29	Crystal Structure of a Novel Shikimate Dehydrogenase from <i>Haemophilus influenzae</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 17101-17108.	3.4	33
30	A Novel Structure of DNA Repair Protein RecO from <i>Deinococcus radiodurans</i> . <i>Structure</i> , 2004, 12, 1881-1889.	3.3	60
31	Crystal structure of a predicted precorrin-8x methylmutase from <i>Thermoplasma acidophilum</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 58, 751-754.	2.6	2
32	Crystal structure of <i>Bacillus subtilis</i> YdaF protein: A putative ribosomal N-acetyltransferase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 57, 850-853.	2.6	10
33	Anchoring Notch Genetics and Biochemistry. <i>Molecular Cell</i> , 2004, 13, 619-626.	9.7	101
34	DNA helicases, motors that move along nucleic acids: Lessons from the SF1 helicase superfamily. <i>The Enzymes</i> , 2003, , 303-VII.	1.7	12
35	The 2B domain of the <i>Escherichia coli</i> Rep protein is not required for DNA helicase activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16006-16011.	7.1	63
36	Phage P4 origin-binding domain structure reveals a mechanism for regulation of DNA-binding activity by homo- and heterodimerization of winged helix proteins. <i>Molecular Microbiology</i> , 2002, 43, 855-867.	2.5	16

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37	Autotracing of <i>Escherichia coli</i> acetate CoA-transferase α -subunit structure using 3.4 Å MAD and 1.9 Å native data. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 2116-2121.	2.5	16
38	Crystal structure of glutamine amidotransferase from <i>Thermotoga maritima</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 49, 420-422.	2.6	14
39	The crystal structure of spermidine synthase with a multisubstrate adduct inhibitor. <i>Nature Structural Biology</i> , 2002, 9, 27-31.	9.7	124
40	Structure of the RPA trimerization core and its role in the multistep DNA-binding mechanism of RPA. <i>EMBO Journal</i> , 2002, 21, 1855-1863.	7.8	282
41	Proliferating cell nuclear antigen (PCNA): ringmaster of the genome. <i>International Journal of Radiation Biology</i> , 2001, 77, 1007-1021.	1.8	287
42	Using surface-bound rubidium ions for protein phasing. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1008-1012.	2.5	9
43	The Role for Zinc in Replication Protein A. <i>Journal of Biological Chemistry</i> , 2000, 275, 27332-27338.	3.4	55
44	Crystal structure of enteropeptidase light chain complexed with an analog of the trypsinogen activation peptide 1. Edited by R. Huber. <i>Journal of Molecular Biology</i> , 1999, 292, 361-373.	4.2	97
45	Structure of N-myristoyltransferase with bound myristoylCoA and peptide substrate analogs. <i>Nature Structural Biology</i> , 1998, 5, 1091-1097.	9.7	118
46	Comparisons between the structures of HCV and Rep helicases reveal structural similarities between SF1 and SF2 superfamilies of helicases. <i>Protein Science</i> , 1998, 7, 605-610.	7.6	105
47	Crystal structures of the Klenow fragment of <i>Thermus aquaticus</i> DNA polymerase I complexed with deoxyribonucleoside triphosphates. <i>Protein Science</i> , 1998, 7, 1116-1123.	7.6	102
48	Major Domain Swiveling Revealed by the Crystal Structures of Complexes of <i>E. coli</i> Rep Helicase Bound to Single-Stranded DNA and ADP. <i>Cell</i> , 1997, 90, 635-647.	28.9	493
49	5' Contexts of <i>Escherichia coli</i> and human termination codons are similar. <i>Nucleic Acids Research</i> , 1995, 23, 4712-4716.	14.5	22
50	Artificial protein vaccines with predetermined tertiary structure: application to anti-HTV-1 vaccine design. <i>Protein Engineering, Design and Selection</i> , 1993, 6, 997-1001.	2.1	7
51	Termination of translation in bacteria may be modulated via specific interaction between peptide chain release factor 2 and the last peptidyl-tRNA ^{Ser/Phe} . <i>Nucleic Acids Research</i> , 1993, 21, 2891-2897.	14.5	34
52	Preliminary crystallographic study of the phenylalanyl-tRNA synthetase from <i>Thermus thermophilus</i> HB8. <i>Journal of Molecular Biology</i> , 1987, 198, 555-556.	4.2	22
53	ATP-Binding Cassette Properties of Recombination Mediator Protein RecF. , 0, , .		1